Seven Proposals for Buckeye

Buckeye-Shaker, Cleveland, Ohio
Fall 2013

Physical Planning Workshop
Taubman College of Architecture & Urban Planning
University of Michigan
Acknowledgements

We would like to thank our partners in Cleveland and acknowledge the faculty and PhD students at Taubman College who so generously contributed their time, expertise, and guidance to this project.

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This report is intended as a resource for the Buckeye Shaker Square Development Corporation (BSSDC), in the ongoing planning efforts in the Buckeye-Shaker area, Cleveland. This inner city-defined neighborhood unit is home to three commercial corridors that serve their surrounding residential fabric: Larchmere Boulevard, Shaker Road, and Buckeye Road. While all are, in their own ways, promising districts with distinct histories, Buckeye Road lags behind the others in identity and investment. Because of this, and as part of the ongoing planning process, the BSSDC sees the stabilization and improved vitality of the Buckeye Road Commercial Corridor as a key component in the revival of the entire neighborhood. While BSSDC primarily serves the residents and business community of the Buckeye-Shaker neighborhood, the effects of its efforts extend into surrounding neighborhoods like Woodland Hills, Mount Pleasant, and University Circle.

The report, organized in two independent sections, summarizes the student work developed during the Fall 2013 Semester in assistance to the BSSDC mission. The first section contextualizes the Buckeye-Shaker neighborhood in its metropolitan context, through the following lenses: regulatory frameworks, environmental infrastructure, socio-economic structure, cultural landscape, and the urban tissue. The second section presents seven visions and strategies to reinvigorate Buckeye Road, formulated by the students and guided by the insight and experience of BSSDC.

The engagement with the BSSDC has been facilitated by LAND Studio, an a local non-profit focused on the creation of inspiring places, public space programming, and design advocacy in Cleveland. Its leadership and guidance has been instrumental to enable the course experiential learning component with the City of Cleveland as a laboratory for the study of complex urban phenomena in the Great Lakes Region.
INTRODUCTION

Located in the heart of the Buckeye-Shaker neighborhood in Cleveland, Buckeye Road is rich with history and potential. What remains along this once bustling corridor only hints to the people, places, and experiences that shaped the neighborhood. Despite economic decline and disinvestment, the community is working to restore and rebuild its physical and social fabric.

The neighborhood’s commercial roots are present in the architecture of its buildings, made visible in the remaining shops and building façades. These and more recent accumulated layers of meaning add complexity to the built environment: the buildings have been altered, appropriated, and personalized by residents over time. Not all of the changes have been positive, however. Safety concerns, physical barriers, and locked doors now contribute to a feeling of placelessness along Buckeye Road.

With the right resources, investment, and alliances, the current residents and business owners can revitalize the area and create a new identity that blends the community’s cultural heritage with socially and environmentally sustainable interventions. The new pocket park and Buckeye Shaker Square Development Corporation offices along 118th Street are a first attempt at anchoring the corridor. This area has the potential to breathe life and vitality into stressed businesses and vacant storefronts along Buckeye Road, a potential put on display in the neighborhood’s popular jazz festival, held annually in the park.

Along Buckeye Road itself, small apartments peer out onto the street from their perch above remaining businesses. Vacant lots call out for meaningful repurposing, perhaps as community gardens or playgrounds. Working with the Buckeye Shaker Square Development Corporation, the community is working to capitalize on existing neighborhood assets and recent investment that have led to increased safety, connectivity, and neighborhood pride. Residents and business owners can combat prevalent issues of poverty, inequality, and crime with intergenerational cooperation. Local partnerships and programming can fight vacancy and abandonment while cultivating opportunities for education, beautification, and job training.

The key to success is identifying and amplifying these partnerships through the pursuit of available funding, strong planning, and collective effort.
Beginning in the 1970s, Community Development Corporations (CDCs) came to the aid of Cleveland neighborhoods stripped of resources in the wake of urban renewal, race conflict, white flight, and redlining by mortgage lenders and insurance companies. In the beginning most of their efforts focused on the real estate market, particularly housing unit rehabilitation, new residential development, and mortgage subsidy programs. These initiatives were aided by the Home Mortgage Disclosure Act of 1974 and the Community Reinvestment Act of 1977. CDCs were also able to direct public and private investment into new retail, commercial, and industrial space. Since the 2008 housing market collapse, the role of CDCs in Cleveland and several Midwest manufacturing cities has changed dramatically. Given this changing landscape, CDCs have been forced to reevaluate their organization, strategies, partnerships, and budgets to become more flexible and more holistic.

In determining their role and priorities, CDCs must consider a host of factors including: consolidation of neighborhood resources, harnessing community assets such as parks, theaters and human capital (including youth volunteers), their own operational capacity, changing neighborhood demographics, and the role of institutions such as schools, libraries, and community health centers. CDCs increasingly must act as the bridge between community needs and strategic initiatives worthy of public-private capital financing.

While some CDCs have been criticized for being small, fragmented, and unproductive, many of Cleveland’s CDCs, including the Buckeye Area Development Corporation, have successfully adopted models of collaboration and community empowerment. Today the ‘development’ in community development is first and foremost about developing partnerships to offer programs and services and to garner capital and operational support. Ultimately, “the goal is to put neighborhoods on track to long-term sustainability, to move from a culture based on transactions to one based on transformation” (Krumholz et al. 2011).
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Cities are shaped both by the hands that build them and the processes that guide them. These processes may be local, regional, or federal in scale. They may exist across generations and be influenced by national and global events. At the city level, official land use plans and zoning regulations impact development patterns, local activity, the environment, and human health.

Built projects are physical manifestations of planning and policy. They have formed the identity of the Buckeye-Shaker neighborhood and can create momentum for its successful future. The Buckeye-Shaker neighborhood boasts three commercial corridors, proximity to the thriving University Circle neighborhood, and a rail link to both downtown and the eastern suburbs. It also faces the challenge of redeveloping or productively reusing vacant land. Moving forward, recognizing these strengths and challenges will help the neighborhood as it plans and advocates for optimal programming, alternative zoning, and development.

Buckeye-Shaker Over Time
Hungarian Immigrants in Buckeye-Shaker
City-wide Foundations and Non-Profit Organizations
Associations: the social networks
Food Systems
Education

The historical progression of architectural styles in Cleveland
Age of the Building Stock
Residential Housing
Economic Environment
Commercial Real Estate
Architecture Styles
The Moreland Theatre
The Learning Campus
The face of Buckeye Road

The cultural landscape

Socio-Economic Structure
Demographics
Baseline Comparisons
Household Risk
Public Health
Neighborhood-Scale Analysis
City Finances

Environmental Infrastructure
Transportation
Green / Blue Infrastructure
Land Cover
Energy
Waste Management

Regulatory Frameworks
History of Planning Policy
Land Use Strategies
Land Banking
City-wide Vacancy Strategies
Area Vacancy and Assets
Neighborhood Planning
Land Banking
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Process

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History of Planning Policy

1720-2020

Originally conceived as the capital of New Connecticut, the city was laid out in 1796 by surveyors with Moses Cleveland’s expedition. The plat, a faithful reproduction of a New England town, with its characteristic commons, failed to treat either river or lakefront as a public amenity.

Railroads reach the city, occupying valuable lakefront property, and promoting industrialization.

The Group Plan, a partially realized city beautiful plan that called for Cleveland’s organization around a central mall, is unveiled.

Plants for a Tudor-style shopping center are conceived.

Buckeye-Shaker neighborhood becomes one of the nation’s first shopping areas and a prototype for past and present transit-oriented development. The neighborhood is characterized by the the row of apartment buildings lining rapid transit tracks running to downtown.

Key World Events

1720
- Civil War
1850
- World War I
1900
- Cleveland Annexes Newburg City
1920
- Buckeye-Shaker neighborhood becomes one of the nation’s first shopping areas and a prototype for past and present transit-oriented development. The neighborhood is characterized by the the row of apartment buildings lining rapid transit tracks running to downtown.

Major Events

- 1720-2020: History of Planning Policy
- 1720
- 1850
- 1900
- 1920
- Commercial
- Governmental Policy
- Social Housing
- Associations
- Land Use
- Transit
- Wars
- Major Events

Mayors

- N. Baker (D) 1912-1916
- W. Stinchcomb
- F. L. Olmstead
- T. Johnson (D) 1901-1909
- W. Fitzgerald 1920-1921
- F. Kohler 1922-1923
- W. Hopkins 1924-1929

City of Cleveland

Railroads reach the city, occupying valuable lakefront property, and promoting industrialization. The Group Plan, a partially realized city beautiful plan that called for Cleveland’s organization around a central mall, is unveiled. Plans for a Tudor-style shopping center are conceived.

State of Ohio & US Federal

- Standard City Planning and Zoning Enabling Act
- Neighborhood Unit Concept first developed by Clarence Perry in NY
- 1924 National Conference on Outdoor Recreation
The Van Sweringen brothers, developers of Shaker Heights, take over the project and name it Shaker Square. They set aside valuable land for the schools and churches that would serve as organizational centers for the neighborhood. Shaker village included a light rail system.

Construction of Shaker Square begins. The suburban shopping center, set around a traffic circle is located at the intersection of Shaker Boulevard, Moreland Boulevard, and Shaker Heights’ Rapid Transit stop.

Plans for a commercial district are approved.

The Hungarian community begins to settle Larchmere Boulevard, just north of Shaker Square.

Cedar-Central Apartments open to tenants. Nation’s first Public Housing estate.

Cleveland adopts first comprehensive plan. Preoccupied with transit, it focuses on the city as a site for efficiency rather than beauty.

Village of Euclid v. Ambler Realty Co. 272 U.S. 365. Decision to uphold the legality of zoning.

Federal Housing Authority created

Wagner-Steagall Housing Act

Federal Housing Authority created

Housing and Home Financing Agency

Taft Ellender Wagner Housing Act

A model for public housing is adopted by the Ohio Legislature.

Cleveland’s first zoning ordinance passed

City of Cleveland

State of Ohio & US Federal

Key World Events

1925
1930
1940
1950

Buckeye-Shaker Neighborhood

Mayors

City of Cleveland

State of Ohio & US Federal

Great Depression

World War II

Commercial

Governmental Policy

Social Housing

Associations

Land Use

Transit

Wars

Major Events

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City of Cleveland

State of Ohio & US Federal

Great Depression

World War II

Commercial

Governmental Policy

Social Housing

Associations

Land Use

Transit

Wars

Major Events
Ghetto Riots
Vietnam War

1918 RESEARCH - 1. Regulatory Frameworks

Shaker Square is listed in the National Registry of Historic Places.

Key World Events

1950
52
54
56
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Buckeye-Shaker Neighborhood

Mayors

City of Cleveland

State of Ohio & US Federal

The Ludlow Community Association is formed to stabilize the neighborhood and becomes a success story of national racial integration.

Using Federal urban-renewal funds, Cleveland begins the $250 million Eerieview project.

While spurring economic development, new highways exacerbated traffic while also destroying neighborhoods and facilitating the flight to the suburbs that eroded the city’s tax base.

Beginning in the 1980s, the USDOT and FHA began to fund design-build programs that rolled construction and design into a single contract in the name of project efficiency. By the 1990s, this practice had gained wide acceptance and funded hundreds of projects throughout the United States.

Mayor Voinovich’s and Planning Director Morrison begin development of the lake front and Euclid Avenue.

The State of Ohio legislature adds Chapter 1710 to the Ohio Revised Code, permitting the designation of Business Improvement Districts in cities and townships throughout Ohio.

1956 Federal Highway Act becomes law.

Pasage of the US Economic Opportunity Act creates the Community Action Program.

National Historic Preservation Act passed.

Housing & Community Development Act

Urban Development Action Grant Program Community Reinvestment Act

Urban Development Action Grant Program

Commercial
Governmental Policy
Social Housing
Associations
Land Use
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Major Events

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U.S. housing prices peak
Financial liquidity crisis begins
Stock market peaks in October
Lehman Brothers files for bankruptcy
Great Recession

Iraq War

Proposed merger of the Shaker Square Area Development Corporation and the Buckeye Area Development Corporation.

Construction begins on permanent supportive housing at East 116th Street and Buckeye Road.

Open Space and Recreation Zoning Districts adopted that allow the city to reserve land for parks, recreational facilities, and open space including swimming pools, recreational centers, marinas and cemeteries.

Passes Urban Garden Zoning District, allowing the city to set aside land for garden and small-scale agriculture. Also establishes “market gardens” that permit the sale of produce at farmers markets.

City begins construction of the Inner Belt Bridge, known as CG2. The bridge is a major part of the Connections 2035 Plan. The bridge’s estimated end of construction is in 2014.

Adopted citywide “chicken and bee” zoning, allowing residents to keep up to six chickens, ducks, or rabbits (one per 800 ft²) and two beehives in a back yard or on small vacant lots. Requires licensing by the city Department of Public Health as well as larger setbacks and greater land area for large livestock.

City adopts agricultural zoning in residential districts that permits agriculture as a principal use on all vacant residually zoned areas. This includes, conditionally, the sale of produce from farm stands.

State Adopts Urban Agriculture Overlay District City may designate areas for large scale farming. Requires special designation through rezoning.

Ohio Revised Code Bicycle Laws passed, affecting both cyclists and motorists. Bicyclists are required to adhere to particular rules.

Economic Stimulus Act
Federal Reserve starts the first round of quantitative easing

American Recovery and Reinvestment Act
Federal Reserve starts the second round of quantitative easing

Ohio adopts Statewide Rail Plan

Federal Reserve announced a third round of quantitative easing
Wheelchair accessible apartments built at Woodland Road and East 115th Street.

The HEAL Initiative and Buckeye Shaker Square Area Development plant 52 backyard gardens in Buckeye-Shaker and Woodland Hills.

Project to reimagine Buckeye Road.

City of Cleveland

City adopts Northeast Ohio’s Long-range Transportation Plan. The plan includes significant transportation upgrades throughout the region, including major roads, bridges, bike lanes and trails.

City adopts the Northeast Ohio Areawide Coordinating Agency’s Regional Bicycle Plan, advancing a vision of bicycling as a viable mode of transportation in the region.

The Connecting Cleveland Citywide Plan is adopted as part of a broader initiative that incorporating plans for Cleveland’s waterfront and downtown.

State of Ohio & US Federal
Land Use Strategies

Clustered Industrial Areas and Connectivity 2010-2020

According to its 2020 master plan, Cleveland is working to make better use of its assets by improving connectivity throughout the city and its region. Additional bridge and highway projects, some of which are already underway, respond to this goal.

Highways bisecting primarily industrial areas provide mobility and connectivity. These connect industry with the city. Despite the decline in industrial use since the city’s heyday as a manufacturing center, there has been little change in the area zoned for industry; this implies an abundance of space to accommodate growth in the manufacturing sector.

There are seven major thoroughfares, mainly consisting of commercial zones, which connect downtown to outlying districts. These roads function as arteries that support economic activity in the core.

2020 Proposed Land Use Map

<table>
<thead>
<tr>
<th>Highway</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Commercial</td>
</tr>
<tr>
<td></td>
<td>Highway</td>
</tr>
</tbody>
</table>

2010 City of Cleveland Zoning Map

<table>
<thead>
<tr>
<th>Residential</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Space</td>
<td>Commercial</td>
</tr>
</tbody>
</table>

GSI File: CCFO_PARCEL_POLY_12_region_C
Buckeye-Shaker Neighborhood Maps, Connecting Cleveland 2020 Citywide Plan
Although segregation in Cleveland is not as severe as in some other major American cities, it is still a fact of life for many Cleveland residents. Western Cuyahoga county is predominantly white, which contrasts with the large African-American population on its East side, a pattern replicated on the city scale with the possible exception of its less segregated downtown.

The majority of Cleveland’s vacancy appears to be situated in the eastern portion of the city, where large swaths of land were left unoccupied by departing manufacturers and housing that used to accommodate workers now sits vacant.

Recent planning initiatives in the city have explored opportunities to address vacancy by promoting its use as park and urban agricultural land. In addition, there are plans for an ambitious green infrastructure framework throughout the metropolitan area that may further imbue vacant partials with possibility.
Land Banking

The nationwide foreclosure crisis hit Cuyahoga County and Cleveland particularly hard. In response, the Cuyahoga Land Bank (CLB) was formed in 2009. The CLB is a non-profit with close ties to local governments that seeks to make productive use of vacant and abandoned properties in communities like Buckeye-Shaker for purposes of economic development, ecological improvement, and increased quality of life.

After acquiring foreclosed properties (largely those that are vacant or abandoned), the CLB may then either rehabilitate and sell the properties or assemble them for new purposes.
City-wide Vacancy Strategies

Vacancy significant shapes the landscape of Buckeye-Shaker. This map identifies vacant parcels in the community by present ownership. It is worth noting that a significant portion of the parcels are held in public ownership and thus are more easily transformed into beneficial, landscape-based community spaces.

Within the City of Cleveland, the issue of vacancy and the need for creative and sustainable responses is an active point of discussion. One of the primary voices within this discussion is The Cleveland Urban Design Collaborative (CUDC). CUDC has not only cataloged vacancy across Cleveland but also generated landscape-based design responses to the issue. These design responses are sensitive to their local context and aim to improve social and environmental conditions through community building and economic opportunities. A selection of such landscape solutions to vacancy are included on the follow page.

http://www.cudc.kent.edu/projects_research/reimagining_cleveland.html
Area Vacancy and Assets

City vs. Area Comparisons

The Buckeye-Shaker neighborhood compares fairly well with other parts of the city in terms of vacant parcels. The location of vacant parcels, as well as area assets like schools and parks, requires analysis of their spatial distribution at multiple scales.

The vacant areas also offer opportunities. The Cleveland Urban Design Collaborative’s ‘Re-Imagining a More Sustainable Cleveland’ report highlights the potential for environmentally beneficial interventions on vacant urban land.

Buckeye-Shaker (6.97%)

Percentage of Neighborhood Land Area Occupied by Parcels Listed as Vacant

Clustering of vacant parcels is evident in the southern half of the Buckeye-Shaker neighborhood with similar clusters distributed selectively to the west and in the south. The spatial distribution of vacant parcels within Buckeye-Shaker highlights urgent issues of equity in prioritizing development and planning initiatives. While the neighborhood may not be doing poorly as a whole, we are visible in this analysis.

Buckeye-Shaker and Its Surroundings

The cluster of health and education institutions in University Circle stands in contrast to the lack of such uses in the Buckeye-Shaker neighborhood. This disparity demonstrates the need for strong connections between the two neighborhoods. Their proximity allows residents of each neighborhood to access the assets of the other.

Buckeye-Shaker has the opportunity to draw University Circle residents to areas throughout Buckeye-Shaker, and by doing so spur economic development.
Recognition of opportunities (both present and future), accounting for outside influences, and understanding the relationships between neighborhood stakeholders are all important parts of the planning process. Buckeye-Shaker has the benefit of a community development corporation, commercial hubs/corridors, and proximity to nearby University Circle. Effective coordination between Buckeye-Shaker’s stakeholders and city planners would help to capitalize on these resources.

Buckeye-Shaker may have an opportunity to leverage the popularity of neighboring University Circle. University Circle is home to Case Western Reserve University, cultural centers like the Cleveland Botanical Gardens, and facilities of the Cleveland Clinic and University Hospital. If Buckeye-Shaker can cultivate spillover investment, it may face a challenge in spreading the benefits equitably throughout the neighborhood.

In 2012, a proposed merger between Buckeye-Shaker’s two community development corporations failed. Cleveland funding intermediary Neighborhood Progress, Inc (NPI) supported the proposed merger. When Shaker Heights Area Development Corporation (SHAD) rejected merging with Buckeye Area Development Corporation (BADOC), it lost city and foundation funding through NPI. SHAD continues to exist, though with diminished capacity, but BADOC became Buckeye Shaker Square Development Corporation (BSSDC) and now serves the entire neighborhood.

The Connecting Cleveland 2020 Citywide Plan proposes zoning updates to the commercial corridors of Larchmere Boulevard and Buckeye Road. Both corridors currently exhibit a number of vacant storefronts. Mixed-use and live-work zoning would represent a shift from the traditional retail zoning currently prevalent.

It is important to note that Shaker Square is privately owned, and therefore may require intentional engagement for pursuit of community goals in the area.
Buckeye-Shaker Neighborhood Plan

City Planning Commission

The City of Cleveland Planning Commission is dedicated to improving quality of life for all Clevelanders and creating economic vitality throughout the city and its region. The Commission and its staff pursue these goals by promoting the highest standards for development and revitalization in all of Cleveland’s neighborhoods and employment centers.

The City of Cleveland Planning Commission, established in 1915, is supported by a staff of professional planners and architects. The city Charter gives the Commission responsibility for preparing plans to guide “development and improvement” of the City and its neighborhoods, and for reviewing all legislation and other matters that concern the “use or development of land.”

Asset
- Shaker Square, one of the most unique places in Cleveland.
- The Larchmere Boulevard antiques district.
- The Buckeye retail district.
- RTA’s Blue and Green rapid transit lines.
- Historic multi-family and single-family neighborhoods
- Schools that accommodate special needs children such as the Sunbeam School and the Alexander Graham Bell School.

Challenge
- Finding alternative uses for portions of Buckeye Road no longer viable for retail.
- Addressing the impact of perceived criminal activity on Shaker Square and the Larchmere antiques district.
- Concentrations of two-family homes in poor condition south of Buckeye and east of East 116th.
- Improving regional roadway access.

Vision
- Develop Buckeye as a premier neighborhood retail corridor through streetscape and storefront improvement initiatives that will encourage entrepreneurship and investment.
- Offers housing options of varied types and price points.
- Connect the Buckeye neighborhood to recreational facilities found in Cleveland and outlying communities.
- Capitalize on institutional partnerships to provide physical and social development resources to the surrounding community.
- Create an arts and cultural district along Buckeye Road to promote history and heritage, provide entertainment, and develop local artistic talent.
- Work to maintain the unique retail mix that makes Larchmere and Shaker Square regional destinations.

While it is important to recognize the boundaries of the Buckeye-Shaker neighborhood, planning and investment in neighboring areas must also be considered and integrated into neighborhood initiatives. Despite decades of disinvestment, Community Development Corporations, nonprofits, and city and county governments are now working together to develop projects that will benefit the Buckeye-Shaker community at large.

1. **Buckeye Road Core Area Redevelopment Strategy**
   A comprehensive strategy for redeveloping the street, capitalizing on its evident assets and developing a new mix of commercial uses, spearheaded by Buckeye Area Development Corp. with design and planning help from Cleveland Urban Design Collaborative.

2. **Harvey Rice School**
   This learning campus, including a $16 million two-story grade school, a $6 million library, a playground and gardens, is the result of collaboration between Cleveland Metro School District, Cleveland Public Library, Saint Luke’s Foundation, the Cleveland Foundation, Neighborhood Progress Inc., ParkWorks, and Cleveland Public Art.

3. **Artisan Square**
   Intended to reintroduce market-rate housing along Buckeye Road, the project will include 25 market rate housing units, help create an arts district, and incorporate public art and green space. The project, intended to be a live/work node, was designed by Square One Architects and supported by Buckeye Area Development Corp.

4. **Moreland Theater Multi-Purpose Cultural Arts Center**
   Buckeye Area Development Corp. has proposed the redevelopment of this historic, but currently vacant, theater building into a flexible, multi-purpose entertainment venue. It will include retail space as well as banquet rooms that can host arts and cultural events.

5. **Proposed East 116th Street and Buckeye Road Retail Shopping Center**
   Buckeye Area Development Corp., in partnership with New Village, proposes a 29,000 sq. ft. shopping center on East 116th Street and Buckeye Road.

6. **Buckeye Road Transit Stop and Pocket Park**
   Building on the Art and Soul theme of the neighborhood’s vision, Buckeye Area Development Corp. has planned a series of art installations and pocket parks throughout the Area. This one is being developed in collaboration with ParkWorks, Cleveland Public Art and RTA.

7. **Saint Luke’s Hospital Renovation**
   This $56.3 million multi-use project is converting this hospital into low-income senior apartments, a charter school, a Boys and Girls Club, office space, and a community clinic. It is a collaboration between Buckeye Area Development Corp., Neighborhood Progress, Inc., and Penrose Properties.

8. **Proposed Eastside Greenway**
   The greenway will connect parks and town centers throughout East Cleveland with a network of trails. The project, to be developed over the coming years, is a collaboration between LANDstudio, Cleveland Metroparks, Cleveland State University, and surrounding municipalities.

9. **Proposed Opportunity Corridor**
   The opportunity corridor is a controversial transportation and economic development project that would connect I-490 to the University Circle neighborhood. The Ohio Department of Transportation has put forth the proposal, which it says will improve accessibility and spur economic development.

10. **Gray and Green Infrastructure Investment Investments**
    The Northeast Ohio Regional Sewer District will construct $3 billion of stormwater-related sewage infrastructure over the next 25 years, including a massive sewer tunnel that will be constructed underneath University Circle and Buckeye-Woodhill.
Buckeye Corridor: Present and Proposed Land Use

2010

The 2000 land use plan for the Buckeye-Shaker neighborhood features three major commercial corridors that are separated from residential and open space.

2020

The proposed 2020 plan for the neighborhood rezones significant portions of the three corridors for live-work mixed use space to enable more a more varied and vibrant economy along their lengths.

Legend of Zoning
- Single, or Double Family Residential
- Multiple Family Residential
- Commercial
- Live-Work Mixed Use
- Open Space / Institutional
- Transportation/ Public Utilities
- Changed Zoning Area

Source:
Buckeye-Shaker Neighborhood Maps, Connecting Cleveland 2020 Citywide Plan
Picture: Google Map

Larchmere Boulevard

Shaker Boulevard

Buckeye Road
Programs and Activities

**Buckeye-Shaker Commercial Areas**

**A | Larchmere Boulevard**
- Unique mix of independent businesses, retailers and restaurants.
- Cleveland's art and antiques shopping district.
- Sidewalk Sales.
- Porch Fest.
- First Fridays.

**B | Shaker Square**
- Retail square.
- Transportation hub.
- Saturday Farmer's Market.
- Wednesday Senior Coffee Day.
- The Coral Company developed and continues to manage the retail center since 2004.

**C | Buckeye Road**
- Half-a-mile of commercial land use.
- High vacancy rates.
- Public art installation to deter violence and crime (E.118th St and Buckeye Rd).
Vacancies along Buckeye Road

Ownership

<table>
<thead>
<tr>
<th>Ownership Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>43%</td>
</tr>
<tr>
<td>Cleveland Land Bank</td>
<td>43%</td>
</tr>
<tr>
<td>Private</td>
<td>14%</td>
</tr>
<tr>
<td>Religious</td>
<td>14%</td>
</tr>
<tr>
<td>Individual</td>
<td>14%</td>
</tr>
<tr>
<td>BSSDC</td>
<td>19%</td>
</tr>
<tr>
<td>Non-Profit</td>
<td>10%</td>
</tr>
</tbody>
</table>

Land Use

<table>
<thead>
<tr>
<th>Land Use Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial/Office</td>
<td>76%</td>
</tr>
<tr>
<td>Residential</td>
<td>24%</td>
</tr>
</tbody>
</table>

Vacant

Appear Vacant
Neighborhood Planning Process

Previous Visioning and Achievements

A 2006 Plan for the Buckeye-Shaker neighborhood identified priorities that fell into four categories: housing, economic development, safety and security, and neighborhood amenities. After seven years, progress is evident, if inconsistent.

Buckeye Shaker Development Corporation cites $113,500,000 of investment in various neighborhood projects as proof of the community’s momentum. However, though a number of housing and beautification projects have been carried out, economic development has been more elusive.

Planning consultants J-QUAD produced the 2006 “Buckeye-Larchmere Focused Area Plan” and have also agreed to produce a five-year land use plan for the neighborhood.

Priorities and Concerns

Home repair, maintenance, rehabilitation.
Quality, residential construction across income levels.
Property maintenance & upkeep, management of vacant lots & homes.
Code enforcement.
Homeownership education & counseling.

Implementation

Quality, residential construction across income levels:
St. Luke’s Manor senior housing.
Emerald Alliance Permanent Supportive Housing.
Accessible housing at 114th and Woodland.
Affordable Housing on MLK Boulevard.

Home repair, maintenance, rehabilitation:
Curb Appeal, Healthy Homes, and Model Block improvement programs.

Economic Development

New business:
Plasmacare plasma collection center.

Protection & visibility:
Securitas mobile patrol.
Commercial corridor security cameras.

Neighborhood involvement in crime prevention:
Bimonthly public safety and security meetings.

After school/summer activities & organizations:
Harvey Rice Library.

Safety and Security

Programs for children and teens.
Recreational & cultural activities.
Social service agencies and programs.
Neighborhood branding and identification.
Social interaction/activities among neighbors & neighborhood associations.

Neighborhood Amenities

Recreational & cultural activities and programs for children and teens:
Harvey Rice Library.
Harvey Rice School.
Buckeye urban farm.

Neighborhood branding and identification:
RTA Buckeye Woodhill station
Tilework at Harvey Rice School & Library
Kite sculpture at E. 119th & Buckeye
Tree sculpture at Woodland&Mt. Carmel
Trumpeter pocket park
Painted garbage cans & sidewalk branding on Buckeye Road
Storefront improvements on Larchmere
Under the leadership of the Buckeye Shaker Square Development Corporation, the community is engaging in a neighborhood planning process throughout the fall of 2013. We had the privilege of attending a community meeting on October 24, in which residents were divided into groups invited to discuss three broad topics: economic development, neighborhood and community, and transportation and infrastructure.

For each topic, J-QUAD employees asked discussants to first develop an inclusive list of relevant priorities; this list was then discussed by participants and eventually narrowed to five key priorities.

After the breakout sessions, the groups were brought together to vote what five main priorities would serve as the primary concerns of the planning process.

From these priority lists, we have selected specific improvements and programming issues unique to the Buckeye-Shaker neighborhood.
Neighborhood Planning Process

Goals, Objectives, and Prioritization

Goal 1
Create a safe environment for residents, business owners, and visitors.

Goal 2
Create an academically, emotionally, and psychologically supportive environment for youth.

Goal 3
Foster a positive, appealing environment for business and entrepreneurship.

Goal 4
Contribute to an aesthetically pleasing and functional environment that creates a sense of place and an identity for the Buckeye Corridor.

Phase I
(Programming and prioritization)

1. Organize getting-to-know-your-neighbor events
2. Create a notification system
3. Improve code enforcement
4. Address security issues through community collaboration

Phase II
(Requires capital and partnerships)

1. For an identity/image for the neighborhood
2. Review zoning code
3. Acquire basic attributes (clean streets, lighting)

Phase III
(Requires significant planning and capital investment)

1. Improve neighborhood image through measures such as trash collection and clean up
2. Implement way finding and signage to create a sense of place
3. Address service collection for abandoned houses through a block watch and local media outlets such as Channel 8
4. Revise transportation schedule and routes
Environmental infrastructure (city systems at the interface of natural and urban ecologies) present challenges to every city: maintenance and operating costs can drain city resources, accessibility, equity, and efficiency, can represent competing political urgencies, and political support may wax and wane with administrative changes. Cleveland is no different and the city is currently attempting to cope with its outdated and inadequate infrastructure. While the city is rich in environmental assets, it must upgrade its systems to remain viable. However, the city and Cuyahoga county are attempting to holistically address these insufficiencies. Plans are in place to upgrade the city's existing systems; furthermore, these upgrades attempt to simultaneously manage transportation, blue and green infrastructure, and land cover, while also increasing the availability of green space, improving quality of life, and incorporating place-making practices.

<table>
<thead>
<tr>
<th>Regulatory Frameworks</th>
<th>Environmental Infrastructure</th>
<th>Socio-Economic Structure</th>
<th>The cultural landscape</th>
<th>The Urban Tissue</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 History of Planning Policy</td>
<td>58 Transportation</td>
<td>102 Demographics</td>
<td>134 Buckeye-Shaker Over Time</td>
<td>168 The historical progression of architectural styles in Cleveland</td>
</tr>
<tr>
<td>24 Land Use Strategies</td>
<td>76 Green / Blue Infrastructure</td>
<td>108 Baseline Comparisons</td>
<td>142 Hungarian Immigrants in Buckeye-Shaker</td>
<td>174 Age of the Building Stock</td>
</tr>
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<td>28 Land Banking</td>
<td>86 Land Cover</td>
<td>112 Household Risk</td>
<td>146 City-wide Foundations and Non-Profit Organizations</td>
<td>176 Residential Housing</td>
</tr>
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<td>30 City-wide Vacancy Strategies</td>
<td>92 Energy</td>
<td>114 Public Health</td>
<td></td>
<td>180 Economic Environment</td>
</tr>
<tr>
<td>32 Area Vacancy and Assets</td>
<td>96 Waste Management</td>
<td>116 Neighborhood-Scale Analysis</td>
<td></td>
<td>192 Commercial Real Estate</td>
</tr>
<tr>
<td>34 Neighborhood Planning Context</td>
<td></td>
<td>126 City Finances</td>
<td></td>
<td>180 Market Architecture Styles</td>
</tr>
<tr>
<td>36 Buckeye-Shaker Neighborhood Plan</td>
<td></td>
<td></td>
<td></td>
<td>192 The Moreland Theatre</td>
</tr>
<tr>
<td>38 Current and Future Projects</td>
<td></td>
<td></td>
<td></td>
<td>194 The Learning Campus</td>
</tr>
<tr>
<td>40 Neighborhood Present and Proposed Land Use</td>
<td></td>
<td></td>
<td></td>
<td>196 The face of Buckeye Road</td>
</tr>
<tr>
<td>42 Programs + Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cleveland is located along the south shore of Lake Erie, while the Cuyahoga River runs through the city. Most of Cleveland’s primary roadways and railways follow the water, reflecting the city’s industrial heritage: waterways once were and, to a lesser extent, still are crucial infrastructure for the shipping of industrial goods.
Opportunity Corridor

Economic Revitalization

The Cleveland Opportunity Corridor, proposed by the Ohio Department of Transportation and the Federal Highway administration, is a roadway project that would construct an urban boulevard between I-490 and University Circle. The purposes of the project hopes to improve transportation connectivity, enhance mobility, and support economic development. However, the project is not without controversy; local opposition is mounting throughout the city.

This document does not explicitly endorse or reject the project, but wishes to acknowledge it as a project that could transform, for good or for ill, economic realities in the Buckeye-Shaker corridor.

Source: Ohio Department of Transportation

Legend:
- Proposed Boulevard: General Alignment
- Traffic Signal
- Bridge Over Proposed Boulevard
- Number of Travel Lanes
- Study Area

Overall Connection Strategy

Preferred Alternative: closer look at the section between E 55th St. and E 93rd St.
Transportation

The plans for the 116th Street RTA Station

The E. 116th Street Station Area and Sustainability Plan extends the planning vision beyond the transit station’s immediate surroundings by including adjacent neighborhoods; the plan suggests that the station could have a transformative, revitalizing impact on the community, while also increasing transit use in the region. The plan addresses three scales: the station, the streetscape, and its broader context.

The station plan identifies pedestrian paths that best serve residents, businesses, and the Learning Campus. It reflects community identity and proposes transit experience improvements that include sustainable technologies. The Streetscape Planning Area includes improvements to streets, sidewalks, and pathways that will better serve transit users, pedestrians and cyclists. The context area plan reinforces current planning initiatives and directs future land use decisions, encouraging compact sustainable communities and widespread transit ridership.

Source: CKS Architecture and Urban Design, Greater Cleveland Regional Transit Authority, 116/STREETSCAPE PLANNING AREA, Cleveland, Ohio
Complete Street Policy: 2012 installation & outcome

The City of Cleveland is working to create a network of complete green streets. By providing complete and green streets, the city hopes to improve the economic, environmental, and social well-being of its citizens. This network will accommodate pedestrians, cyclists, motorists and transit riders while also incorporating best green infrastructural management practices.

<table>
<thead>
<tr>
<th>Goal</th>
<th>Input</th>
<th>Output</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective:</strong> Reduce the number of pedestrian and bicyclist injuries and fatalities; the city's long-term goal is to have the lowest rates per capita state-wide.</td>
<td><strong>Pedestrian:</strong></td>
<td><strong>Pedestrian Injury Rate:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$1,329,824</strong></td>
<td><strong>208 injuries --- 134 injuries</strong> (2011) (2012)</td>
<td></td>
</tr>
<tr>
<td><strong>Mobility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective:</strong> Design all road projects to increase mobility for non-motorized users and, where possible, create links to larger bicycle, transit and pedestrian networks.</td>
<td><strong>Bicycle:</strong></td>
<td><strong>Bicycle Commuter Rate:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$62,297</strong></td>
<td><strong>0.8% workers -- 1.2% workers</strong> (2010) (2011)</td>
<td></td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective:</strong> Increase the total mileage of streets designed to minimize negative environmental impacts.</td>
<td><strong>Green Streets:</strong></td>
<td><strong>Amount of recycled pavement used:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$1,204,635</strong></td>
<td><strong>35,593 tons</strong></td>
<td></td>
</tr>
</tbody>
</table>

According to Cleveland’s master plan, they are trying to encourage Transit Oriented Development in the Buckeye-Shaker neighborhood. Transit Oriented Development (TOD), as defined by the American Public Transit Association (APTA), is “compact, mixed-use development near new or existing public transportation infrastructure that serves housing, transportation and neighborhood goals. Its pedestrian-oriented design encourages residents and workers to drive their cars less and ride mass transit more.” The public transit system in this neighborhood is relatively well-developed; both green and blue rain lines connect the neighborhood to downtown and the eastern suburbs, while several bus routes provide additional connectivity.

Cleveland’s rail system is well-used and becoming more so every year. In 2012, the RTA boasted 48.2 million trips, a 4.8% increase from 2011. Bus use is also increasing, showing a 3.5% increase over the same time frame.

Pedestrian and Bikelanes

Though public transit access is abundant in the community, bike lanes are less well-distributed, appearing only on stretches of Larchmere and 116th. Complete sidewalks, represented as dotted pink lines, are similarly inconsistent. The pedestrian environment also leaves much to be desired; on Buckeye Road, there are few trees on either side of the road and the poorly maintained sidewalk contributes to an atmosphere easily perceived as unsafe.
Transportation

Streetscapes

Shaker Square Hub

Moreland Road

Buckeye Road

Shaker Square Hub

Moreland Road

Buckeye Road
Transportation

Travel mode analysis
Despite a fairly well-developed transit system, the primary mode of transportation in Buckeye-Shaker is still the personal automobile. What follows are comparative analyses of travel times that describe the technical, pragmatic reasons for the automobile’s continued dominance.

In moving between two points, the distance traveled by bus, and thus the traveled time, is generally longer, a problem exacerbated by the transfers and wait times that are a necessary evil of bus transit. Increasing directness of bus routes and making changes to bus scheduling that reduce wait times and transfer counts would likely increase ridership.

<table>
<thead>
<tr>
<th>Destination</th>
<th>By car:</th>
<th>By transit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Hospital</td>
<td>17 min</td>
<td>1h 7 min</td>
</tr>
<tr>
<td>Hopsin Airport</td>
<td>24 min</td>
<td>1h 6 min</td>
</tr>
<tr>
<td>Stadium</td>
<td>20 min</td>
<td>42 min</td>
</tr>
</tbody>
</table>

**Means of Transportation**

- Drive: 68%
- Carpool: 9%
- Public transportation: 18%
- Walk or Bike: 2%
- Other: 3%
Transportation

Water Infrastructure

Situated on the banks of Lake Erie and at the convergence of numerous railroad lines, the iron and steel industries benefited of Cleveland’s significant locational advantages. These industries continue to be an economic mainstay of Greater Cleveland. In 1992, the primary metal industries in Cuyahoga County employed 14,890 people, while almost twice that number (27,978) were employed in the manufacture of fabricated metal products. The Great Lakes system continues to provide an important link between the supply of iron ore in Northern Minnesota, Wisconsin and Michigan’s Upper Peninsula and the coal mines in Ohio and Pennsylvania.

[1] Loading coal in Port of Duluth, MN
[2] Entering the Cuyahoga River
[3] Mittal Steel Cleveland Works steel mills
[5] Industrial commerce along waterway
(www.chicagoist.com)
Cleveland’s water comes from Lake Erie. The quality of its water is impacted by localized environmental conditions and industrial pollution, as well as industrial and shipping activities in the larger Great Lakes system. Northeast Ohio Regional Sewer District (NEORSD) was organized in July 1972 to administer Cuyahoga County’s water pollution control program. The treatment of sewage in Cleveland began in 1922 with the opening of the Westerly wastewater treatment plant. In 1925 the Easterly plant began treatment and 3 years later the Southerly plant was in operation. Cleveland initiated sewage charges in 1938 levied on those connected with the system to defray the cost of improvements. Suburban customers were charged higher rates than those in the city, and the justice of this continuing rate differential was disputed by the suburbs from time to time.

**Green/Blue Infrastructure**

**Environmental Quality**

The Great Lakes system flows generally southeast towards the Atlantic Ocean. There is a 170 foot drop in water level between Lake Erie and Lake Ontario as it goes over Niagara Falls. The distance from Duluth, MN to the Atlantic is 2,342 miles. Of the five Great Lakes, Lake Erie is the shallowest lake.

Lake Erie Dead Zone: Algae spreads across the shallow central basin of the lake in the summer, dies and settles. Decomposing algae consumes much of the oxygen in the water and creates a dead zone where fish cannot live.
Capital Improvements

Poorly managed stormwater causes combined sewer systems to overflow (combined sewer overflows, or CSOs). But it also creates other serious problems outside of the sewers that are best addressed by a separate, regional stormwater program. Northeast Ohio has initiated “Project Clean Lake” and Stormwater Management Programs to address these issues.

1. OUR SEWERS . . .

CSO

“PROJECT CLEAN LAKE”

A 25-year commitment to reduce raw sewage discharges from combined sewers into Lake Erie, the Cuyahoga River, and streams.

WHY?
To comply with the federal Clean Water Act.

BENEFITS:
- Reduce raw sewage discharges into environment from 4.5 billion gal./year to less than 0.5 billion gal./year.
- Construction of seven (7) new storage tunnels to hold more than 300 million gallons.
- Green infrastructure projects
- 31K new jobs, $443 million tax revenue over five years within the seven-county Northeast Ohio area.

COST TO CUSTOMER:
A portion of yearly sewer rate increases to fund $3 billion of construction projects over 25 years.

2. OUR STREAMS, RIVERS, STREETS . . .

Stormwater Management Program

Addresses the regional problems that occur when massive volumes of storm runoff (rain, melted snow and ice) flow from one community to another.

WHY?
To provide a regional solution to stormwater management problems that cross community boundaries and borders, as stated in the District’s founding court order.

BENEFITS:
- Reduce flooding of homes and streets, erosion of roads and streambanks, and surface pollution into Lake Erie and local waterways.

COST TO CUSTOMER:
A user fee (average $60.60/year) based on amount of paved/hard surfaces on one’s property.

Major large diameter CSO and storage tunnel project progress since 2005

<table>
<thead>
<tr>
<th>Location</th>
<th>Project/tunnel</th>
<th>Cost ($ million)</th>
<th>Status</th>
<th>Length x i.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Water (DC)</td>
<td>Blue Plains Tunnel</td>
<td>330.5</td>
<td>TBM launch expected July 2013</td>
<td>4.5 miles x 23ft</td>
</tr>
<tr>
<td></td>
<td>Anacostia Tunnel</td>
<td>253.9</td>
<td>construction not yet started</td>
<td>2.4 miles x 23ft</td>
</tr>
<tr>
<td></td>
<td>North East Boundary Tunnel</td>
<td>-</td>
<td>Planned for construction 2018-21</td>
<td>2.8 miles</td>
</tr>
<tr>
<td></td>
<td>NE Boundary Branch Tunnels</td>
<td>-</td>
<td>Planned for construction 2018-21</td>
<td>3.1 miles</td>
</tr>
<tr>
<td>Portland, Oregon</td>
<td>West Side CSO</td>
<td>269</td>
<td>Completed 2005</td>
<td>3.5 mile x 14.5ft</td>
</tr>
<tr>
<td></td>
<td>East Side CSO</td>
<td>381</td>
<td>Completed 2010</td>
<td>1.6 mile x 25ft</td>
</tr>
<tr>
<td>NEOSD (Cleveland)</td>
<td>Mill Creek Tunnel (MCT3)</td>
<td>90</td>
<td>Completed 2008</td>
<td>3 miles x 20ft</td>
</tr>
<tr>
<td></td>
<td>Euclid Creek Storage Tunnel</td>
<td>198</td>
<td>TBM launched 2012</td>
<td>3.4 miles x 24ft</td>
</tr>
<tr>
<td></td>
<td>Dugway Storage Tunnel</td>
<td>145</td>
<td>Bid year 2016</td>
<td>2.7 miles x 24ft</td>
</tr>
<tr>
<td></td>
<td>Doan Valley Storage Tunnel</td>
<td>101</td>
<td>Bid year 2017</td>
<td>1.8 miles x 17ft</td>
</tr>
<tr>
<td></td>
<td>Shoreline Storage Tunnel</td>
<td>180</td>
<td>Bid year 2021</td>
<td>3 miles x 21ft</td>
</tr>
<tr>
<td></td>
<td>Westernly Tunnel</td>
<td>202</td>
<td>Bid year 2020</td>
<td>2.3 miles x 24ft</td>
</tr>
<tr>
<td></td>
<td>Big Creek Tunnel</td>
<td>221</td>
<td>Bid year 2028</td>
<td>3.7 miles x 20ft</td>
</tr>
<tr>
<td>Chicago TARP</td>
<td>Phase 1 (1975-2006)</td>
<td>Approx 3,000</td>
<td>-</td>
<td>109 miles x 9-23ft</td>
</tr>
<tr>
<td></td>
<td>Deep Rock Connector</td>
<td>180.2</td>
<td>TBM launched 2012</td>
<td>7.5 mile x 18ft</td>
</tr>
<tr>
<td></td>
<td>Fall Creek/White River Tunnel</td>
<td>Approx 389.2</td>
<td>Construction start 2016</td>
<td>8.6 miles x 18ft</td>
</tr>
<tr>
<td></td>
<td>Piqua Run Tunnel</td>
<td>-</td>
<td>-</td>
<td>Estimate 7 miles</td>
</tr>
<tr>
<td></td>
<td>Piqua Run Tunnel</td>
<td>-</td>
<td>-</td>
<td>Estimate 3 miles</td>
</tr>
<tr>
<td>St Louis Sewer District</td>
<td>Upper River Des Peres</td>
<td>-</td>
<td>-</td>
<td>1.7 miles x 24ft</td>
</tr>
<tr>
<td></td>
<td>Lower River Des Peres</td>
<td>-</td>
<td>-</td>
<td>2.3 miles x 20ft</td>
</tr>
<tr>
<td></td>
<td>Des Peres Storage Tunnel</td>
<td>-</td>
<td>Launched 2012</td>
<td>9 miles x 28ft</td>
</tr>
<tr>
<td>Columbus</td>
<td>OARS Project</td>
<td>260.5</td>
<td>-</td>
<td>4.4 miles x 20ft</td>
</tr>
<tr>
<td>Omaha</td>
<td>Deep Level Tunnel</td>
<td>442 (2009)</td>
<td>In 2009 UTCF</td>
<td>5.4 miles x 17ft</td>
</tr>
</tbody>
</table>

How big will the tunnels be?

Our 25-year program to reduce Lake Erie pollution includes seven huge tunnel projects. Here are their finished diameters:
Cleveland is one of the 772 US cities with a combined sewer overflow (CSO) system. Under typical conditions, wastewater is transported through the system to a treatment plant before it is discharged into Lake Erie. During heavy rainfall the system capacity may become overloaded and the wastewater overflows into streams and rivers.

As the city continues to develop, there is not only more wastewater, but more impervious surfaces which contribute to stormwater run-off. Cleveland is responsible for meeting the EPA’s environmental standards for CSOs as part of the Clean Water Act; what follows are approaches to meeting these standards.

**Green/Blue Infrastructure**

**Combined Sewer Overflow**

Water Line Replacement Program provides complete repair or replacement coverage for the water line that runs from your home to the main line. $3.25 per month.

Sewer Line Replacement Program provides $7,500 per occurrence in repair coverage, including unclogging for the sewer or septic line that runs from your home to the main line or septic tank. $4.75 per month.

Preferred Restoration is an upgrade to the Water or Sewer Line Programs that provides $1,000 in additional coverage for landscaping after a water or sewer line repair. $1.50 per month for Water Restoration and $1.75 for Sewer Restoration.

In-Home Plumbing Repair Program provides $1,500 in annual coverage for repairs to all water supply and drain lines in your home. $8.50 per month.

---

Baldwin Water Treatment Plant, Buckeye Neighborhood
Garrett A. Morgan Water Treatment Plant, Ohio City
Nottingham Water Treatment Plant, Collinwood Neighborhood
Green/Blue Infrastructure

Stormwater Management

The Doan Brook watershed is a tributary that flows to Lake Erie; however, over time much of the stream has been redirected into underground pipes. In Cleveland, stormwater and sanitary sewers are combined into a single system. As the amount of impervious surfaces grows across the city, flooding and runoff become a serious problem.

The Northeast Ohio Regional Sewer District had a program that collected fees from property owners for stormwater control, based on percentage of impervious control, but a 2013 decision by the 8th District Court of Ohio deemed the fee unconstitutional, saying that runoff does not fall within the definition of waste water. It also leaves communities wondering what will happen with $12 million already collected from property owners.

Parcels of homes are assessed based on square footage of impervious surfaces.

- **HOUSE A**
  - Small house / rain garden
  - 2,000 sf impervious surface
  - $2.85 a month

- **HOUSE B**
  - Medium house / small garage
  - 4,000 sf impervious surface
  - $4.75 a month

- **HOUSE C**
  - Large house / large garage
  - 4,000+ sf impervious surface
  - $8.60 a month
The Northwest Ohio Regional Sewer District is spearheading a series of traditional gray infrastructure initiatives, combined with long-term green infrastructural solutions. Because of an agreement with the EPA regarding control measures, green infrastructure must be located where it can control an additional 44 million gallons of CSO.

Five acres of green infrastructure are proposed in the Buckeye-Shaker area, including a ‘Green Street’ which may utilize several of the GI types described in this section.

<table>
<thead>
<tr>
<th>GI Type</th>
<th>Description</th>
<th>Drainage/Surface Area</th>
<th>Cost/SqFt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Basin</td>
<td>Short term detention of stormwater, with a controlled slow release from the outlet structure at a desired flow rate</td>
<td>1:15 to 1:20</td>
<td>$3.90/SF ($168,000/acre)</td>
</tr>
<tr>
<td>Wet Basin</td>
<td>A permanent pool of water typically a minimum of 3 feet where runoff from each rain event is detained and slowly released from the outlet at a desired flow rate</td>
<td>1:15 to 1:20</td>
<td>$6.45/SF ($281,000/acre)</td>
</tr>
<tr>
<td>Constructed Wetland</td>
<td>Treatment is enhanced through the wetland plants that promote infiltration and evapotranspiration</td>
<td>1:15 to 1:20</td>
<td>$6.40/SF ($80,000/acre)</td>
</tr>
<tr>
<td>Irrigation Pond</td>
<td>Runoff is detained in a permanent pool with the ability to pump water for surrounding irrigation areas such as golf courses, sports fields, or parks</td>
<td>1:15 to 1:20</td>
<td>$8.70/SF ($380,000/acre)</td>
</tr>
<tr>
<td>Infiltration Basin</td>
<td>gravel media and sediment collectors allow for filtration of stormwater prior to entering the groundwater system</td>
<td>1:5 to 1:50</td>
<td>$6.80/SF</td>
</tr>
<tr>
<td>Bio-Swale</td>
<td>Intercept runoff from impervious surfaces to slow &amp; filter stormwater through engineered soil substrate &amp; selected plant material. Stormwater is retained for no more than 24 to 48 hours</td>
<td>1:5 to 1:10</td>
<td>$25.00/SF</td>
</tr>
<tr>
<td>Porous Pavement</td>
<td>Allows stormwater to filter through a drivable or walkable surface &amp; be either irrigated into ground or piped slowly back to the sewer system. Can provide retention, infiltration, and treatment</td>
<td>N/A</td>
<td>$14/SF</td>
</tr>
</tbody>
</table>

More than **20 million gallons** of overflow volume is needed in the Buckeye-Shaker area after grey infrastructure improvements are completed.

X 1 Million Per Year

---

**Catchment Areas with 1-MG or more of CSO after the implementation of the Planned Gray Infrastructure**

---

**RESEARCH: 2. Environmental Infrastructure**
Buckeye-Shaker’s provision of open space and its allowance for water permeability is less than in Cleveland as a whole. This has significant implications for both the urban ecosystem and quality of life. Higher levels of impermeability keep water from reentering the water table. The high impermeability of the neighborhood redirect the stormwater into Cleveland’s overtaxed combined sewer system, causing overflows.

By repurposing vacant parcels, Buckeye-Shaker might reassert the presence of natural systems in neighborhood open space. By maintaining such parcels, or even allowing some of them to revert to a “natural” state, Buckeye-Shaker can increase its supply of open land with very little effort or investment.
Land Cover

Site inventory

Materials selected for pavement and construction have significant implications for stormwater collection and mitigation of the so-called “heat island effect.”

Stormwater Pollution Level: the material’s impact on the water quality.

Stormwater Harvesting Level: the material’s capacity of collecting storm water.

Albedo: the measure of the ability of a surface material to reflect sunlight on a scale of 0 to 1 (0.0: surface absorbs all solar radiation; 1.0: total reflectivity).

Heat Island Mitigation: higher albedo has higher mitigation capacity.

<table>
<thead>
<tr>
<th>Materiality</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Scale Park</td>
<td>Stormwater Pollution Level: Low&lt;br&gt;Stormwater Harvesting Level: High&lt;br&gt;Heat Island Mitigation: High</td>
</tr>
<tr>
<td>Three &amp; Shrub (semi-natural growth)</td>
<td>Community Parks &amp; Playground</td>
</tr>
<tr>
<td>Arbor &amp; Shrub (artificial cultivation)</td>
<td>Building Roof (Residential Building)</td>
</tr>
<tr>
<td>Metal (corrugated roof)</td>
<td>Building Roof (Commercial Building)</td>
</tr>
<tr>
<td>Asphalt (flat roof)</td>
<td>Network</td>
</tr>
<tr>
<td>Asphalt or Cement</td>
<td>Private Garden &amp; Public Greening</td>
</tr>
<tr>
<td>Shrub &amp; Lawn (artificial cultivation)</td>
<td>Sidewalk</td>
</tr>
<tr>
<td>Cement</td>
<td></td>
</tr>
</tbody>
</table>

Data Source:
National Land Cover Database 2006; NLCD2006 Percent Developed Imperviousness, National Land Cover Database 2006
Reference:
EPA, 2003, Cooling Summertime Temperature
Land Cover

Imperviousness

The higher rates of Imperviousness in urbanized areas generate higher volumes of stormwater under wet weather, and continue to challenge the Combined Sewage Infrastructure serving Cleveland. Over 10% impervious rates, the water quality gets compromised. These images represent material qualities of these abstract indicators as we find them in the neighborhood.
Ohio's data analysis

Ohio currently produces some oil and natural gas, but is expected to increase its production of these fossil fuels substantially over the next several years as the Marcellus and Utica shale formations increase drilling and production using hydraulic fracturing technology. Coal and natural gas generate almost 85 percent of the state’s electricity. Nuclear power generates most of the remainder with renewable energy accounting for less than 2 percent. Its average retail electricity price is moderate and below the national average, which likely increases consumption.

However, the state is attempting to make better use of alternative energy. Ohio’s alternate energy portfolio standard requires investor owned utilities to generate 25 percent of their electricity from alternate forms of energy with 12.5 percent coming from renewable energy by 2024, 0.5 percent of which must be solar.

Ohio Energy Consumption Shares By End-Use Sector, 2011 (Percent)

Source: Energy Information Administration

Ohio Energy Consumption Estimates, 2011

Source: Energy Information Administration, State Energy Data System

Ohio Net Electricity Generation Shares, 2012 (Percent)

Source: Energy Information Administration, Electric Power Monthly
Energy

Three scales of investigation

Ohio is rich in coal and offshore wind energy potential but has relatively few other energy resources. The Appalachian Basin, which crosses the eastern part of the State, holds considerable reserves of coal and small deposits of oil and conventional natural gas. The Basin’s Marcellus shale formation also contains unconventional shale gas. Winds offshore in Lake Erie reach the highest energy potential classification. With a large population and a heavily industrial economy, Ohio is among the states most ravenous for energy. The industrial sector dominates energy consumption, largely due to the presence of energy-intensive industries, including chemicals, glass, metal casting, and steel.

Resources and Consumption

Petroleum

Although Ohio’s crude oil production is minor, the State has the second-highest refining capacity in the Midwest. Nearly all of Ohio’s crude oil output is derived from stripper wells (wells producing fewer than 10 barrels per day) in the eastern part of the State.

Natural Gas

Ohio produces a small amount of natural gas. Most of its supply is brought in via several major interstate pipelines from western Canada and the Gulf Coast region. Ohio has major natural gas storage capacity, that is used to meet peak demand during the winter.

Coal, Electricity, and Renewable

Although Ohio is a moderate producer of coal, it ranks fourth in the United States in coal consumption. Ohio’s coal mines, concentrated in the Appalachian basin in the eastern part of the State, supply less than one-third of State coal consumption. Although one of the Nation’s top generators of electricity, Ohio is also among the major importers of electricity due primarily to the State’s energy-intensive industrial sector, which accounts for more than one-third of the State’s electricity consumption. The residential sector consumes around one-fourth of the State’s electricity, with nearly one-fifth of Ohio households relying on electricity as their primary source of energy for home heating.

Advanced and Renewable Energy in Cleveland

In June 2008, the City of Cleveland adopted a citywide Advanced Energy Portfolio Standard. The standard ensures that 15% of Cleveland Public Power’s energy comes from advanced or renewable sources by 2015, 20% by 2020, and 25% by 2025.

The Renewable Energy Policy Project has estimated that a federal renewable energy portfolio standard mandating a 25% reduction in CO2 by 2025, would create 51,269 wind, solar, geothermal, and biomass manufacturing jobs in Ohio alone.
Waste Management

Cuyahoga County

Waste management is one of Cleveland’s strategic action lines established in the Sustainable Cleveland 2019 Plan. The new waste management focus includes a “waste for profit” approach, and a “zero waste” strategy to reduce solid waste sent to landfills and expands recycling and composting programs.

Cleveland is a part of the Cuyahoga Solid Waste Management District (SWMD). Specifically, the city is in charge of collecting municipal solid waste, elaborating recycling plans and presenting 5 year performance reports to the SWMD.

Legend

- Organic
- Paper & Cardboard
- Glass
- Metal
- Plastic
- Hazardous & Tires
- Steel Mill Scale
- Other

Percentages of waste sent to landfills

A. Lorain County
B. Richland
C-D-E. Wayne-Tuscarawas-Stark
F. Mahoning County
G. Ashtabula
Others

Total Residential Landfilled Solid Waste in 2012
144,248 tons

Total recycled
15,532 tons

Recycling Rate
11 %
Waste Management

Sustainable Cleveland 2019 Plan Timeline

- **Ohio Solid Waste Disposal Act**
- Statewide regulatory and planning process to manage solid waste in order to protect natural resources and increase recycling.

- **Curbside Recycling Pilot Project**
  - Started with 15,000 households for automated trash collection system.

- **Deconstruction Pilot Projects**
  - Partnered with neighborhoods to deconstruct vacant homes and recycle materials.

- **Postponed Municipal Solid Waste-to-Energy Plant**
  - Cleveland withdraws application to build waste-to-energy plant due to court decision to no longer exempt these facilities from being labeled as pollutant.

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1988</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>Commercial Recycling Program</td>
<td>Free commercial recycling program for commercial uses, restaurants and organizations.</td>
</tr>
<tr>
<td>2007</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2008-2009</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>Municipal Solid Waste-to-Energy Plant</td>
<td>Initiative to build a $200 million municipal waste-to-energy facility at Cleveland’s Ridge Road Transfer Station.</td>
</tr>
<tr>
<td>2010</td>
<td>West Side Market Composting Pilot</td>
<td>Aimed to gather data about compostable material produced, landfill diversion and community recycling engagement.</td>
</tr>
</tbody>
</table>
Socio-Economic Structure

This research illustrates the distribution of various population groups, their potential needs, and possible development pressures. Age structure, race, educational attainment, means of transportation, location and types of healthcare facilities are also documented. Such information will help neighborhoods recognize assets and challenges. It also indicates if more healthcare facilities or schools are needed, the presence of racial segregation, or the benefits a neighborhood might glean from better pedestrian access and more public spaces. These insights shed light on design and planning initiatives.

While Cleveland’s population decreased in the last two decades, the proportion of black residents increased. During the same period, the main industry shifted from manufacturing to services. This was accompanied by an increase in the rate of university education. Compared to other neighborhoods in its district, Buckeye-Shaker has a higher density and (perhaps surprisingly) household income.
Demographics

Population Growth and the Change in Racial Structure

The city of Cleveland and the majority of its suburbs witnessed population decline in the last two decades. In most affected areas, this shrinkage was accompanied by changes in neighborhood racial structure. In east Cleveland and its eastern suburbs, the African-American population increased in proportion to other demographics.

1990: 506,000  
2010: 409,000
Demographics

Population Density

When compared to the demographics of Cuyahoga County, those of Buckeye-Shaker provides insight on the potentially different needs of the neighborhood. Density tends to be highest around Shaker Square, which indicates both the stability of that area and the stabilizing power of commercial agglomeration.
Demographics

Industrial Structure and the Change in High Education Rate

In Cleveland and most of its suburbs, the proportion of people aged 25 and above with a bachelor's degree or higher has increased in the last two decades. Simultaneously, employment in the service sector has increased in the wake of manufacturing decline. In one sense, this is hopeful; perhaps the decline in the manufacturing sector has spurred higher education, responding to the human capital needs of the service sector.

However, it is still the case that the university-educated population in Cleveland is significantly lower than in the surrounding region.

Percentage of population aged 25+ with bachelor's degree or higher:

1990: 8%
2010: 13%
Baseline Comparisons

**Gender and Racial Distribution**

Compared to Ohio writ large, and Cuyahoga county, Cleveland and the Buckeye-Shaker neighborhood have a slightly greater male population, as well as a significantly larger African American population.

**Racial and Childhood Poverty**

The 2012 federal definition of poverty is a household income less than $23,000 a year. Childhood poverty, measured in terms of food security, and household income, reached record highs in 2013. Incredibly, Cleveland’s rate of childhood poverty more than doubles the national average. The state of Ohio ranks third in the nation in childhood poverty poverty rates, behind Louisiana and Kentucky.
### Baseline Comparisons

#### Income disparity

Relative to the American standards, Cleveland, in aggregate, is more egalitarian than the national average. Buckeye-Shaker in particular is consistent with those trends, though there is a smaller gender-income disparity, and larger share of normalized minority income share. Across the three racial groups, Buckeye-Shaker is similar in terms of socio-economic status.

#### Median Income

- **White Households, 2010 Dollars**
  - 2,500 - 15,000
  - 16,000 - 30,000
  - 31,000 - 40,000
  - 41,000 - 50,000
  - 51,000 - 86,000

- **Hispanic Households, 2010 Dollars**
  - 2,500 - 15,000
  - 16,000 - 30,000
  - 31,000 - 40,000
  - 41,000 - 50,000

- **Black Households, 2010 Dollars**
  - 2,500 - 15,000
  - 16,000 - 30,000
  - 31,000 - 40,000

#### Share of Income / Gender

- **Total Share of Income**
- **Male**
- **Female**

85¢ per $ Slightly greater gender-pay parity

- **Share of Household Income / Race**
- **High Concentration of Urban Black Population in Cleveland**

#### Gini Coefficient

Ranging from 0 (complete equality) to 100 (complete inequality). Higher values indicate that the metro area is more unequal in terms of how income is distributed among the population. Lower values mean that income is more equally distributed.

- **41.7**
- **47.5**
- **41.0**

Cleveland MSA, New York, Detroit

---

**Baseline Comparisons**

41.7

**Cleveland MSA**

85¢ per $ Slightly greater gender-pay parity

53% Black

High Concentration of Urban Black Population in Cleveland

**Gini Coefficient**

47.5

**New York**

41.0

**Detroit**
Household Risk

Employment and Public Assistance

Buckeye-Shaker does not stand out as an at risk location, especially when compared to national levels of government assistance. Nor does it suffer from exceedingly high levels of unemployment. The labor force is comprised of more women than men, who are also slightly more prone to unemployment. Compared to the rest of Cleveland’s fifth district, African-American men in Buckeye-Shaker are less likely to be unemployed.

Median Income Difference between Males and Females

2010 Dollars

Buckeye-Shaker District 5

Median Income Difference between Males and Females

2010 Inflation Adjusted Dollars

-5,200 - -3,400

-3,300 - 0.0

0.010 - 5,100

5,200 - 6,500

6,600 - 16,000

Buckeye-Shaker District 5

Unemployment Rate

% of civilians 16 years old and over unemployed

Unemployment Rate

percentage of civilians 16 years old and over unemployed

9% - 12%

13% - 17%

18% - 21%

22% - 27%

28% - 36%

Buckeye-Shaker District 5

Labor Force / Gender / Unemployment

Buckeye-Shaker District 5

Ohio

U.S.A.

Unemployment / Race

White

Latino/Hispanic

Black

Unemployed

At Risk Households

No Assistance

Social Security

Supplemental Social Security

Public Assistance

Retirement Income

Buckeye-Shaker District 5

Ohio

U.S.A.
Public Health

Disease

These charts indicate causes of mortality for infants and seniors, alongside other relevant statistics. These populations are both vulnerable and tend to require both more healthcare and a more accommodating built environment to promote longevity.

Prevalence of Asthma in Cleveland Neighborhoods 2005-2009


Low Weight Births

Infant Death

AIDS Prevalence 100,000 Person

Aged-Adjusted Mortality Rates Per 100,000 Person, 1997-2001
Neighborhood-Scale Analysis

Compared to other neighborhoods in its district, Buckeye-Shaker has a relatively higher density. About 14,000 people inhabit its 1.2 square mile area. The neighborhood also has a relatively higher median household income ($27,650), though this figure is still small in absolute terms.
Neighborhood-Scale Analysis

Healthcare Facility and Age Structure

Buckeye-Shaker features several healthcare facilities including a private integrated hospital for daily care as well as an elderly service organization dedicated to the care of that community. The neighborhood’s elderly (> 64 yrs) and infant (< 5 yrs) population is substantial, rendering the services of Fairhill Partner and the Hospital essential. The neighborhood needs more health care facilities for infants and senior people.
Neighborhood-Scale Analysis

Racial Comparison

The neighborhood features a significantly higher proportion of African-American an residents (80.1%) than either the city or county. The data collected on commuting choice indicates the huge dependence on private cars. This represents an opportunity to explore the implementation of complete streets, increasing options of public transportation as well as an improving pedestrian infrastructure.

Commuting Means

The data collected on commuting choice indicates the huge dependence on private cars. This represents an opportunity to explore the implementation of complete streets, increasing options of public transportation as well as an improving pedestrian infrastructure.

Compare Average

| Neighbor |  
|---------|---
| Car     | 288 |
| Public  | 58  |
| Walk    | 24  |
| Bicycle | 2   |
| Other   | 0.8 |
| Work at Home | 7  |

| County  |  
|---------|---
| Neighbor |  
| Car     | 435 |
| Public  | 30  |
| Walk    | 13  |
| Bicycle | 1.5 |
| Other   | 3   |
| Work at Home | 16  |
Neighborhood-Scale Analysis

Income and Education

The majority of age 25 or greater a high school education or less, a fact reflected in the neighborhood's relatively low income. These statistics, however, vary significantly throughout the neighborhood.

Block groups adjacent to Buckeye Road are of fairly consistent density. However, households located in the southwestern blocks tend to have a larger household size, while educational attainment is tends to be higher further east along the corridor.

Crime seems to be an especially pressing concern near the intersection of Buckeye Road and 116th Street and to the south of Shaker Boulevard between 126th Street and Moreland Boulevard, where thefts are often reported.
Neighborhood-Scale Analysis

High School Education

This map took the population from 16 and 19 years old as the target and interpreted amount of students who had dropped out of high school and who had accomplished certification. This information would indicate the need for education development. The condition seems more serious when it comes to show the elementary education of this neighborhood. Nearly one-third of children are enrolled in school, including K-8 school or pre-elementary school.

Compare Average

- Not dropping
- Dropping

Neighbor

<table>
<thead>
<tr>
<th></th>
<th>Not dropping</th>
<th>Dropping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>37</td>
<td>7</td>
</tr>
</tbody>
</table>

County

<table>
<thead>
<tr>
<th></th>
<th>Not dropping</th>
<th>Dropping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>59</td>
<td>4</td>
</tr>
</tbody>
</table>

Elementary Education

Compare Average

- K-8 school
- Enrolled in school
- Not enrolled

Neighbor

<table>
<thead>
<tr>
<th></th>
<th>Enrolled in school</th>
<th>Not enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>544</td>
<td>1671</td>
</tr>
</tbody>
</table>

County

<table>
<thead>
<tr>
<th></th>
<th>Enrolled in school</th>
<th>Not enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>755</td>
<td>2038</td>
</tr>
</tbody>
</table>
City Finances

During the global recession, as unemployment and foreclosure rates rose, income and property tax revenues fell. Cleveland was ranked with the 5th highest foreclosure rates in the nation. As Ohio reduced its revenue sharing with Cleveland in order to balance its own budget, the City was forced to restructure and lay off personnel. In the past two years, Cleveland's unemployment rate has fallen almost 1% and its housing prices are moving toward market rate. In May of 2012, the Horseshoe Casino opened downtown, serving as a catalyst for the local and regional economy. Cleveland's efforts to shift its tax base to health care, technology, and service industries are part of a strategy toward recovery.

The City of Cleveland's budget is composed of several different funds, each with a specific purpose. The different sources of revenue and budgets within each type of fund add to the complexity of Cleveland's budget.

**Cleveland Funds**

- **General**
  - General operating expenses of the city
- **Special Revenue**
  - **Restricted Income Tax**
  - Capital improvements and debt service payments
- **Streets**
  - Street maintenance and repair
- **Reserve Fund**
  - Reserved for: economic fluctuations for general operating expenses
- **Rainy Day**
  - Reserve for: economic downturns and one time obligations
- **Debt Service**
  - Payment for transactions involved in debt financing
- **Major Enterprise**
- **Small Enterprise**
- **Internal Service**
- **Agency**

Source: Cleveland Department of Finance
The purpose of the general fund is to support basic operations, such as waste collection, park maintenance, and fire protection. There are many sources of revenue for these expenditures. Each year the city rolls over any remaining balance between revenue and expenditures. Due to this rollover, even though the city’s current expenditures exceed its revenue, it projects a balance of $3,456,727 at the end of 2013.

While property tax is typically the major source of revenue for local government, as property values have fallen in recent years, their tax has not been a great enough source of revenue for the city. Cleveland’s general fund is mostly supported by income tax. This is a 2% tax on wages and earnings of Cleveland residents and those that work within the city. Therefore, there is a direct relationship between the services provided by the general fund and the health of the local economy. Of total income tax, 1/9 is devoted to the restricted income tax fund and the remainder supports the general fund.

A city is unable to successfully operate if it cannot ensure the safety of all its residents. For this reason, the majority of Cleveland’s expenditures are on public safety. The Cleveland Department of Public Safety is comprised of 5 divisions: Police, Fire, Emergency Medical Service, Animal Control Services, and Corrections. The services provided by these divisions are especially necessary in urban communities, which are densely populated. The commitment to public safety enables Cleveland to prevent, protect, and respond to dangers.
City Finances

Capital Improvements

Since local governments tend to face resistance to tax increases, taxes alone are not sufficient to adequately supply city services. Cleveland utilizes other revenue streams in addition to receiving assistance from intergovernmental transfers. Some of these methods of financing support capital improvement projects, which are vital to the city’s infrastructure.

Funds to Supplement Taxes

<table>
<thead>
<tr>
<th>Bonds</th>
<th>Municipal bonds are a form of loan to the city by bond purchasers as a method to fund capital projects. Their principal is repaid on the maturity date of the city’s revenues and backed by the full faith and credit of the city.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants</td>
<td>Grants are contributions by higher level governments or other organizations provided to support a particular function.</td>
</tr>
<tr>
<td>Fees</td>
<td>Fees are charges to a party who directly benefits from a city service.</td>
</tr>
</tbody>
</table>

Capital Improvement Sources of Funding

<table>
<thead>
<tr>
<th>Federal</th>
<th>State</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Obligation Bonds</td>
<td>Restricted Income Tax</td>
<td>Operating Budget</td>
</tr>
<tr>
<td>Subordinate Income Tax</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Citywide Capital Program Expenses

2013

$462,494,671

28% 72%

BASIC SERVICES $128,825,075
66% Transportation network
11% Public Buildings & Facilities
12% Vehicles & Major Equipment
10% Parks & Recreation

MAJOR ENTERPRISES $333,669,596
54% Airports
15% Water System
22% Cleveland Public Power
10% Water Pollution Control

Source: Cleveland Department of Finance

Capital Improvement Plan 2013 - 2017

Pavement Management Program

Facilities Plan

Project criteria

cost >$5K
lifespan>5yrs
job creation
housing
maintenance
The Buckeye-Shaker neighborhood is a combination of two distinct historical identities: that of the Hungarian community located on and around Larchmere Boulevard, and Shaker Square, one of the oldest shopping centers and transit oriented developments in the nation to the northeast. Like many other neighborhoods, Buckeye-Shaker saw explosive population growth and development in the late nineteenth and early twentieth century, followed by increased racial segregation, a severely diminished tax base, and massive disinvestment. Today, a large number of community-rooted associations and non-profits provide the organizational infrastructure on which Cleveland-like cities have increasingly relied for neighborhood service provision since the 1970s.
Buckeye-Shaker Over Time

Policy, Architecture, and Associations

Within the last 100 years, the Buckeye-Shaker neighborhood has experienced significant change. The neighborhood has a rich heritage and bears the memories of its first population boom in the 20s, racial integration and tension in the 60s, and disinvestment in the 80s and 90s, that provide context for current rehabilitation.

1920 - 1930
- Plans for a Tudor-style shopping center are conceived at the site of the rapid transit stop at Shaker Boulevard and Coventry Road.
- Plans for a commercial district are approved.
- Shaker Square opens. A hardware store, a florist, a drug store, a gift shop, a restaurant and a beauty shop were among its first tenants.
- Construction of Shaker Square begins. It originally laid out as a suburban shopping center around a traffic circle at the intersection of Shaker Boulevard and Moreland Boulevard, and the junction of the Shaker Heights Rapid Transit System.

1937 - 1940
- High-density apartments are constructed around the square, increasing the population of the district.
- The Colony Theater is added to the square.

1949 - 1957
- The Hungarian community begins to settle Larchmere Boulevard, just north of Shaker Square.

2000 - 2012
- A nonprofit development group, Friends of Shaker Square, later named Shaker Square Development Corporation, was formed to promote the preservation of the shopping center’s original character. The square is added to the National Register of Historic Places for being the oldest shopping district in Ohio and the second oldest in the nation.

1966 - 1976
- Aerial view looks southwest towards the dense residential neighborhood along Buckeye Avenue, which runs parallel south of Shaker Boulevard.
- Not part of the Van Sweringens’ Shaker Square development, this neighborhood was originally the center of Cleveland’s Hungarian community and is now populated largely by African-Americans, who moved into the area after large numbers of whites left for the suburbs in the 1970s.

City of Cleveland ranked as the poorest big city in the nation by the U.S. Census Bureau.

Race riots brake out in Hough, a neighborhood three miles from Buckeye-Shaker. Lasting five days, the riots killed 4, critically injured 30, and resulted in 275 arrests and more than 240 fires.

1976 - 2012
- The Ludlow School District, lying half in Shaker Heights and half in the Buckeye-Shaker neighborhood, is the first in the area to integrate, immediately following the Supreme Court decision for Brown v. Board of Ed.

Detailed Look: 1920 - 1930  pages 7 to 8
Detailed Look: 1954 - 1968  pages 9 to 10
Detailed Look: 2000 - 2012  pages 11 to 12
The 1920 through 1940s witnessed rapid development and population growth in Shaker-Square. A large amount of major construction happened during this period, including the construction and completion of Shaker Square.

- **1920** Second Trinity Baptist Church Completed.
- **1921** Sunbeam Elementary School built.
- **1922** Second New Hope Baptist Church & Academy Completed.
- **1923** Construction of Shaker Square Completed. It originally laid out as a suburban shopping center around a traffic circle.
- **1924** Sunbeam Elementary School completed.
- **1925** Van Sweringen, takes over the Tudor-style project, naming it Shaker Square.
- **1926** Plans for a Tudor-style shopping center are conceived.
- **1927** House of God completed.
- **1929** Second Trinity Baptist Church & Academy Completed.
- **1930** Construction of Shaker Square Completed. The construction of the Shaker Square Completed.
- **1937** The COLONY THEATER (later Shaker Square Cinemas) brings theater and cultural activity to Shaker Square.
**Detailed Look 1954-1968**

**Integration Efforts and Reactions**

Struggles and Successes

In the 1950s and 60s, the neighborhood was nationally recognized for its school and neighborhood integration efforts. However, these successes were often overshadowed by racial violence in nearby neighborhoods.

An explosion disturbed the quiet suburban neighborhood of Ludlow. Someone had planted a bomb in the garage of John G. Pegg, an African American lawyer who was building a new house on Corby Road. The racially-motivated attack sparked a biracial movement in this quiet Cleveland neighborhood that united the community in support of racial integration.

Despite LCA’s efforts, local real estate brokers would not show Ludlow homes to white home buyers, describing the neighborhood as a “lost cause.” Making “white flight” seem more and more like a reality.

A proposed freeway threatened to cut through the neighborhood along Larchmere Boulevard. Opposition from the Stokes Mayoral administration successfully convinced the governor to stop the project.

Largely because of the LCA’s efforts, the Ludlow neighborhood begins to stabilize at 50% white, 50% black. This racial diversity is reflected in the Ludlow Elementary School where integration is proving to be successful.

Congress passes Civil Rights Act, Title VI, linking federal funds to non-discrimination and desegregation activities.

An aerial view looks southwest towards the dense residential neighborhood along Buckeye Avenue, which runs parallel south of Shaker Boulevard. Not part of the Van Sweringens’ Shaker Square development, this neighborhood was originally the center of Cleveland’s Hungarian community, and is now populated largely by African-Americans, who moved into the area after large numbers of whites left for the suburbs in the 1970s.

Faith Temple Church of God completed.

Perfect Peace Baptist Church completed.

Black Clevelanders throughout Cleveland launched a year-long protest to end de facto segregation and discrimination in Cleveland public schools.

Martin Luther King Jr. comes to Cleveland to convince African-Americans to vote in the upcoming Mayoral election and to promote peaceful resistance.

Cleveland City Dance opens.

To overcome the inability of white home buyers to get financing in what banks considered a “black neighborhood”, the LCA incorporated Ludlow Co. and publicly sold thousands of dollars worth of stock as short-term second mortgages to prospective white home buyers.

Congress passes Civil Rights Act, Title VI, linking federal funds to non-discrimination and desegregation activities.

A violent shootout erupted in Glenville, a primarily black neighborhood four miles from Buckeye-Shaker. The two-day shootout killed seven and wounded 15. Following the event the mayor decided that there would no longer be white police officers in Glenville.

---|---|---|---|---|---|---|---|---

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135
The Return of the farm in the City

In the early 2000s, as a means of coping with residential vacancy, the neighborhood joined many nationwide in embracing agricultural use within the urban context. Enabled by the passing of local legislation and the launching of several food-centric non-profits and initiatives, Buckeye-Shaker's embrace of urban agriculture and localized food systems is well underway.


City of Cleveland ranked as the poorest big city in the nation by the U.S. Census Bureau.

The residential housing value in Shaker Square is $12,500 higher than the Cleveland average at $65,600.

The Coral Company takes buys Shaker Square.

A bank takes over ownership of Shaker Square.

City Fresh Launched.

City of Cleveland adopted Open Space and Recreation Zoning District.

City of Cleveland adopts the Urban Garden Zoning District.

City of Cleveland adopts agriculture in residential districts and Urban Agriculture Overlay Districts.

Alexander Grand Bell School closes. The school was built in 1969 and served both regular and impaired hearing students.

Ohio begins construction of the Inner Belt Bridge in Cleveland, known as CG2.

City of Cleveland Civic Vision Citywide Plan (the master plan) proposed.

Cleveland Civic Vision Citywide Plan (the master plan) proposed.

Ohio Revised Code Bicycle Laws become effective.

Kindred Hospital Cleveland opens.

City of Cleveland adopts "chicken and bee" zoning.

North Union Farmers Market recognized by American Farmland Trust as one of the Top 20 Large Farmers Market in the U.S.
**Hungarian Immigrants in Buckeye-Shaker**

Mere decades after the first Hungarian migration of Buckeye-Shaker in the early 20th century, the neighborhood had become the densest concentration of Hungarian people outside Budapest. This concentration of ethnic culture and its relative isolation formed a unique Hungarian-American subculture in the neighborhood. By mid-century, demographics had begun to shift, and today Buckeye-Shaker’s Hungarian roots are threatened, though still visible in some storefronts along the corridor.

<table>
<thead>
<tr>
<th>1914</th>
<th>1924</th>
<th>1930s</th>
<th>1930s</th>
<th>1939</th>
<th>1940</th>
<th>1949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theodore Kundtz, a Hungarian immigrant becomes the most successful industrialist in Cleveland.</td>
<td>Hungarian Society of Cleveland.</td>
<td>Hungarian Immigrants in Buckeye-Shaker</td>
<td>Louis Black becomes the first Hungarian to be elected to the Cleveland City Council.</td>
<td>A count of 9558 Hungarians in Cleveland. More than 90% in Buckeye Shaker.</td>
<td>The labor movement gets to Cleveland’s Hungarian population which is very vulnerable at the moment due to war and immigration issues.</td>
<td>First World War Many Hungarians return to Europe, the ones that stay struggle with the social discrimination of the time. An extended wish to Americanize and prove their loyalty.</td>
</tr>
<tr>
<td>Many of the newcomers were temporary migrants that would travel to the US in the winter to work on the steel mills, and return to their homes during the harvest.</td>
<td>Louis Kossuth, president of Hungary during the revolution visits Cleveland.</td>
<td>A count of 9558 Hungarians in Cleveland. More than 90% in Buckeye Shaker.</td>
<td>The quota system is established.</td>
<td>1/2 of the Municipal Court of Cleveland Judges were Hungarian.</td>
<td>The community after over two decades of settling and having fewer newcomers has developed a unique Hungarian-American subculture.</td>
<td>Most of the Hungarian population was by this time settled very well. Their enrollment in the Second World War was very high.</td>
</tr>
<tr>
<td>The Buckeye Road community is a Hungarian city with many thousands of inhabitants, several churches, schools, newspapers and organizations.</td>
<td>Szabadsag First printed newspaper entirely in Hungarian.</td>
<td>35,000 out 40,000 inhabitants in the neighborhood are Hungarians. For decades Cleveland was said to be the city with the second-highest Hungarian population in the world, second only to Budapest.</td>
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</tr>
</tbody>
</table>
Hungarian Immigrants in Buckeye-Shaker

After the second world war, immigration laws softened and a new wave of Hungarians arrive in the neighborhood. This new generation settles in quickly with the help of previous generations. In the 1970s and 80s, improved socioeconomic conditions lead to the out-migration of Hungarians to the city’s eastern suburbs, leaving the neighborhood’s Hungarian heritage in the hands of select restaurants and institutions that carry forth the legacy.

Revolution in Hungary. A massive new wave of Hungarians arrives in Cleveland.

With rapid population growth, the community struggles to provide adequate services. The neighborhood responds by creating kitchens, places to sleep and English schools. The West Side Hungarian School of Cleveland is created.

By this time there were twelve millionaires of Hungarian descent in the area.

There is a massive move out into the suburbs. The Hungarians that remain are mostly elderly or newcomers with few resources.

By this time 20% of Hungarian residents had attended university and 43% are US citizens.

The Hungarian community has largely moved out and been replaced by a new population of African Americans.

Hungarian influence is still felt in the community, though through institutions more than through residents. Churches, schools, and restaurants in the neighborhood are still frequently by Hungarians who come from elsewhere in the city.

Education institutions begin to form, and Hungarian-American literature comes into its own, creating a need for publishers and printers. The needs of the community were not basic anymore.

Neighborhood school offers nation’s first advanced high school level courses in Hungarian Studies.

The wealthier members of the community begin moving to the suburbs.

After the second world war, Immigration laws softened and a new wave of Hungarians arrive in the neighborhood. This new generation settles in quickly with the help of previous generations. In the 1970s and 80s, improved socioeconomic conditions lead to the out-migration of Hungarians to the city’s eastern suburbs, leaving the neighborhood’s Hungarian heritage in the hands of select restaurants and institutions that carry forth the legacy.
City-wide Foundations and Non-Profit Organizations

Philanthropies

Throughout the 20th century, much (though by no means all) philanthropic activity in Cleveland has sought to build the capacity of non-profit institutions run by professionals, not only in medicine and social work but also in education and the fine arts; in keeping with the principle that philanthropy should help people help themselves, these institutions draw most of their income from payments (by individuals and by governments) in exchange for services.

Neighborhood Sources of Funding from City-level Philanthropies

The Cleveland Foundation

The Cleveland Foundation has helped citizens give back to their community since 1914. Two-thirds of flexible grant dollars support projects in 6 priority areas to create significant, widespread impact.

- Year Ended 2012:
  - Total assets: $1.87B
  - Grants authorized: 3,097 grants
  - Value of grants authorized: $91M
  - New gifts received: $52M
  - Operating expenses: $11.7M
  - Number of employees: 72

The George Gund Foundation

The George Gund Foundation was established in 1952 and provides grants in the areas of education, human services, economic and community development, the environment and the arts.[2] The Foundation has made grants totaling more than $538 million since its inception.

- Year Ended 2012:
  - Total assets: $454M
  - Grants authorized: 264 grants
  - Value of grants authorized: $25.6K

The Sisters of Charity Foundation

The Sisters of Charity Foundation of Cleveland works to improve the lives of those most in need with special attention to families, women and children living in poverty in Cleveland’s Central Neighborhood.

- The foundation has identified specific areas of need for addressing poverty:
  - Reducing health and education disparities in Cleveland’s Central Neighborhood.
  - Reducing homelessness by increasing supportive housing in Cuyahoga County.

City-wide Foundations and Non-Profit Organizations

Environmental Mission

There are numerous Environmental groups and associations working to improve the environmental quality of Cleveland. By merging smaller programs into single, larger organizations, these groups have been better able to fund projects and avoid program redundancy.

Multiple plans have been written to further guide these organizations in the years to come as well as to provide metrics by which success can be evaluated.

The GreenCityBlueLake Institute is a sustainability research and advocacy center associated with the Cleveland Museum of Natural History. The institute researches sustainability practices, participates in community initiatives, disseminates best practices, and advocates publicly for change.

Established to perform research, offer education, and curate collections of natural-scientific artifacts related to anthropology, archaeology, astronomy, botany, geology, paleontology, wildlife biology, and zoology.

This collaborative works to reduce the region’s carbon footprint, to increase energy efficiency in multiple markets, and to create high quality jobs.

Cleveland 2030 is a coalition of building owners, service professionals, and community stakeholders that work together to rapidly transform the city’s built environment through large-scale reductions in energy and water use, the GHG-emissions of buildings, and carbon dioxide emissions from transportation.

Sustainable Cleveland 2019 is a 10-year initiative that engages people from all walks of life that work together to design and develop a thriving and resilient Cleveland region that leverages its wealth of assets to build economic, social, and environmental well-being for all.
Associations: the social networks

Religious, Hospital, Schools

Cuyahoga County is filled with a wide variety of associations and foundations that work on multiple scales, connecting initiatives across the county, the City of Cleveland, and Buckeye-Shaker.

The distribution of religious, healthcare and educational associations throughout the county tends to closely mirror the distribution of residences; hospitals, however, tend to exhibit both more locational variation and a tendency to cluster in medical campuses that create their own districts within the city.

While the city’s financial difficulties have led to school closures that disproportionately affect already-struggling communities, religious associations tend to remain and work to assuage negative impacts of disinvestment.

Associations

Six Types of Associations

The associations serving Buckeye-Shaker can be grouped into six categories: educational, recreational, healthcare, religious, and environmental.

Educational associations include both public and charter schools. Environmental associations include regional and grassroots organizations working toward preservation and sustainability. Buckeye-Shaker is home to three healthcare institutions: a hospital, an institute for the elderly, and a substance abuse clinic. Throughout the neighborhood, recreational organizations offer dance, sports, and arts programming, while religious associations, primarily Baptist churches, offer both religious services and faith-based programming.
Associations

Environmental Associations

City Fresh (Buckeye-Shaker stop)
Local, affordable produce
Every Tuesday between June and October
Cost-share program

North Union Farmers Market
Local produce, baked-goods, and crafts
Every Saturday between April and December

Formal Associations

Buckeye Area Development Corp.
US Post Office
Serves Cleveland

Rockefeller Park (Fairhill Road)
Serves Cleveland
Link in a chain of city parks

Community Housing Solutions
Founded in 1973
Non-Profit
Assists low/moderate income families obtain/maintain affordable housing

Social Security Administration
Serves Ohio

Shaker Square Development Corp.
Provide the people and businesses of the Shaker Square area with the leadership and action needed
Fairhill Institute for The Elderly
Non-profit Organization
Started at 1987
Total Revenue: $1,916,838 (2008)
Mental Service
Social & Mental Service
Substance Abuse Initiative
Non-profit agency
Provide alcohol, tobacco, and other drug prevention programs and services to promote drug free communities in northeast Ohio.
Drug Free Zones; Prevention Fairs; Red Ribbon Activities
Kindred Hospital - Cleveland
For profit
Started at 2008
Transitional care hospitals:
Provides an acute hospital level of care to patients who require a long hospitalization.
Administrator: Michelle Mullin
546,000 patients and residents in 2012

Substance Abuse Initiative
Non-profit agency
Provide alcohol, tobacco, and other drug prevention programs and services to promote drug free communities in northeast Ohio.
Drug Free Zones; Prevention Fairs; Red Ribbon Activities

Groundworks Dance Theatre
Founded in 1988
Connected to Cleveland City Dance, and 2 associations in the urban district, and 15 associations within the metropolitan region

Cleveland City Dance & Dance Cleveland
Founded in 1965
Connected Groundworks dance Theatre; Shaker Square Cinema and Shaker Square Summer Live Music Concerts

Reality Sport Inc
Founded in 1990
Connected to 3 associations in the urban district, and connected to 7 businesses and foundations in the metropolitan region

Schools as Neighborhood Resources through Neighborhood Leadership Institute
Harvey Rice School
Founded in 2001
Connected to 19 associations in the urban district, and connected to 2 associations in the metropolitan region

RESEARCH: 4. The Cultural Landscape
Associations

**Religious Associations**

- Second Trinity Baptist Church
  - Built in 1926
- Perfect Peace Baptist Church
  - Built in 1959
- Our Lady of Peace Catholic Church
  - Built in 1920, 1925, 1949
- Holy Grove Baptist Church
  - Built in 1925
- Christian Valley Missionary Baptist Church
  - Built in 1980
- Grace Fundamental Baptist Church
  - Built in 1918
- Church of the Living God
  - Built in 1900
- Gladstone Baptist Church
  - Built in 1938
- Second New Hope Baptist Church & Academy
  - Built in 1930
- Morelight Mission Baptist Church
  - Built in 1915
- Ministers Missionary Baptist Church
  - Built in 1916
- GEISA Society
  - Built in 1930
- Congregation of Jehovah's Witnesses
  - Built in 1969
- Faith Temple Church of God
  - Built in 1961
- Salvation Baptist Church
  - Built in estimated 1920's
- Baptist Christ Star Missionary
  - Built in 1910
- House of God
  - Built in 1929

**Education Associations**

- Elementary School
  1. Sunbeam Elementary School
     K-8
     246 students
  2. Alexander Graham Bell
     K-8
     Closed in 2010
- Life Skills Center of Northeast Ohio
- Phoenix Village Academy
  K-5
- Our Lady of Peace School
  Church school
  http://www.olpchurch.com/
Associations

Changes Over Time

While today, neighborhood churches are predominantly English-speaking Baptist congregations, Buckeye-Shaker used to be home to Italian Baptist churches and Jewish synagogues. At least two current churches, Second Trinity Baptist Church and Church of God, are sited in buildings formerly occupied by the aforementioned faiths.
Clusters

Areas that feature dense clusters of community-based organizations are highlighted in the map on this page, while also representing the pedestrian accessibility of said organizations.

The chart on the following page attempts to quantify these clusters, by measuring the number of associations in each census-defined block group. Also displayed is the age make-up of each block group. Taken together these data highlight what age groups are being best provided for as well as potential gaps in service provision.
Food Systems

In 2011, Cleveland adopted some laudable urban agriculture policies, such as allowing the raising of chickens, bees and livestock, and allowing agricultural and farm stands on vacant lots in residential districts. However, some have argued that these steps, while admirable, are insufficient: the city also needs to resolve long-term issues like land ownership and access to water.

An effort called ReImagine a More Sustainable Cleveland envisions how to convert some of Cleveland’s 3,000 parcels of vacant land into green space, farms, storm water parks or renewable energy sites.

Policy

The Cleveland - Cuyahoga County Food was formed in 2007 to help bring about public and private policy changes that foster a healthier food system. The coalition has based its work on assessments of how food can impact the health of individuals, communities, the economy, and the environment.

The George Gund Foundation and the Cleveland Foundation awarded the Coalition grants to expand its capacity through staff, interns, and other resources.

Community Supported Agriculture (CSA) is an alternative economic model for agriculture and food distribution that supports smaller-scale local farmers by distributing the risks and benefits inherent in agricultural production. A CSA also refers to the network of individuals that agree to pay for a season’s worth of produce at the beginning of the season in exchange for weekly shares of vegetables and fruit.

Education

The Urban Community School uses community supported agriculture as an educational opportunity for low-income students on the near-west side of town. UCS partners with local farms to allow the students there to learn about where their food comes from and why fresh produce is more healthful than processed food.

Community

Community Supported Agriculture (CSA) is an alternative economic model for agriculture and food distribution that supports smaller-scale local farmers by distributing the risks and benefits inherent in agricultural production. A CSA also refers to the network of individuals that agree to pay for a season’s worth of produce at the beginning of the season in exchange for weekly shares of vegetables and fruit.

Food Deserts in Cuyahoga County

Orange squares are grocery stores greater than 25,000 square feet. Red dots are fast food restaurants. Dark blue areas are where residents have fast food closer (half-mile away) and grocery stores further (one mile). Data and maps produced by the Cuyahoga County Planning Commission in 2008.
The Shaker Schools

The original Harvey Rice Elementary School was built in 1904 and educated the children of Cleveland, Newburg City, and two adjacent Shaker neighborhoods. In 1912, the annexation of Newburg city (pop. 10,000) and changes in districting significantly shaped the provision of education in the neighborhood.

A 1916 study of the public schools, funded by the Cleveland Foundation, revealed that 70 percent of Rice School students came from homes where English wasn’t the primary language, reflecting the historic immigrant character of the neighborhood.

The Cultural Landscape

Education

Harvey Rice Elementary School
Year Open: 1904
Enrollment (1916): 1,060

Harvey Rice Wraparound (PreK-8)
Year Open: 2009
Enrollment: 468

Demographics

Language Spoken at Home
- English: 227
- German: 68
- Yiddish: 5
- Bohemian: 347
- Italian: 27
- Hungarian: 294
- Polish: 5
- Slovak: 66
- Other foreign: 21

Students with Disabilities: 20.1%
Student Mobility: 7.2%

Report Card
- State Test Performance: D
- Progress Math + Reading: C
- Gap Closing: F
- Wellness/Physical Education: Low

Harvey Rice Elementary School
Year Open: 1904
Enrollment (1916): 1,060

Cleveland groups its schools into "academic neighborhoods" centered on comprehensive high schools. In eight out of 10 neighborhoods, at least two-thirds of the schools are rated by the state as being on academic watch or in academic emergency.

Failing schools dominate in some neighborhoods

Percentage of schools on Academic Watch or Academic Emergency by school area

Area 8: East Tech Neighborhood
- East High School: EF
- Dike campus - Cleveland: EF
- School of Arts: AW
- Giddings: AW
- Anton Grdine: AE
- Audubon: AE
- Bolton: AE
- George Washington Carver: AE
- Marion Sterling: AE
- Stokes Academy: AE
- Willow: AE

Key to Ratings
- EX: Excellent
- EF: Effective
- CI: Continuous Improvement
- AW: Academic Watch
- AE: Academic Emergency

Schools with City-wide Draw
- Cleveland School of the Arts
- John Hay High (3 schools)
- Valley View Academy
- Warner Academy
- Douglas MacArthur
- Garrett Morgan School
- Ginn Academy
- Jane Addams Business Career
- Kenneth Clement Academy
- Martin Luther King Jr. High
- Max S. Hayes High
- Success Tech Academy
- Tremont Elementary
- Option Complex

Neighborhood high schools
- Whitney Young
- Carl F. Shuler
Our goal is to ensure every child in the city attends an excellent school and every neighborhood has a multitude of great schools from which families can choose. Cleveland seeks to reinvent our public education system. Our plan is based on an emerging national model that profoundly changes the role of the school district. This approach, or portfolio strategy, is showing promising results in cities such as Baltimore, Denver, Hartford, New York and others. In fact, Cleveland is one of 23 school districts involved in the Portfolio School District Network, facilitated by the Center for Reinventing Public Education."

- from The Cleveland Plan

### East High
- **Year Built**: 1900
- **Year Open**: 1900
- **Enrollment**: 0

### New East Tech
- **Year Built**: 1954
- **Year Open**: 2009
- **Enrollment (open)**: 149

### Cleveland Early College High School
- **Year Built**: 2009
- **Year Open**: 2010
- **Enrollment (selective)**: 209

### Cleveland School of Science + Medicine
- **Year Built**: 2010
- **Year Open**: 2010
- **Enrollment (selective)**: 297

### Cleveland School of Architecture + Design
- **Year Built**: 1929
- **Year Open**: 1929
- **Enrollment (selective)**: 509

---

**Demographics**

<table>
<thead>
<tr>
<th>High School</th>
<th>Am. Indian / Alaskan Native</th>
<th>Black, Non-Hispanic</th>
<th>Hispanic</th>
<th>Multiracial</th>
<th>White, Non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>East High</td>
<td>NC</td>
<td>96.0%</td>
<td>NC</td>
<td>7.0%</td>
<td>NC</td>
</tr>
<tr>
<td>New East Tech</td>
<td>NC</td>
<td>64.9%</td>
<td>10.9%</td>
<td>17.0%</td>
<td>NC</td>
</tr>
<tr>
<td>Cleveland Early College High School</td>
<td>NC</td>
<td>59.0%</td>
<td>5.1%</td>
<td>4.1%</td>
<td>NC</td>
</tr>
<tr>
<td>Cleveland School of Science + Medicine</td>
<td>NC</td>
<td>85.0%</td>
<td>5.6%</td>
<td>11.3%</td>
<td>NC</td>
</tr>
<tr>
<td>Cleveland School of Architecture + Design</td>
<td>NC</td>
<td>78.0%</td>
<td>5.6%</td>
<td>11.3%</td>
<td>NC</td>
</tr>
</tbody>
</table>

**Report Card**

<table>
<thead>
<tr>
<th>High School</th>
<th>State Test Performance</th>
<th>Progress Math + Reading</th>
<th>Graduation Rate</th>
<th>Wellness/Physical Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>East High</td>
<td>D</td>
<td>NR</td>
<td>-</td>
<td>Low Success</td>
</tr>
<tr>
<td>New East Tech</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Cleveland Early College High School</td>
<td>D</td>
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<tr>
<td>Cleveland School of Science + Medicine</td>
<td>B</td>
<td>NR</td>
<td>A</td>
<td>Moderate</td>
</tr>
<tr>
<td>Cleveland School of Architecture + Design</td>
<td>A</td>
<td>NR</td>
<td>A</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

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**Research**

**Science + Medicine**
- Provides a three-year and four-year graduation options with a focus on STEM education and access to the Post Secondary Enrollment Options Program (PSEOP).

**College preparatory curriculum for serious students who plan to leave their mark on the world through their innovative design talents. Students are encouraged to explore their aptitude for design as it relates to changing their environment and enriching their community.

**Partners**:
- American University of Paris - collaborative project utilizing distance learning to focus on climate change
- Cleveland Clinic - distance learning focusing on bioethics
- Ohio State Extension - resources for support of school garden
- Tucker, Ellis, and West - 3R's program

**Architecture + Design**
- Offers a college-preparatory education for motivated, high-achieving students interested in entering science or health-related professions.

**Partners**:
- Cleveland Clinic
- Case Western Reserve University

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**On June 10, 2010 East High was closed by the 2010 Academic Transformation Plan that was issued by the Cleveland School System.**

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**Education**

**High School**

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**Business, Law and Technology**
- Partners:
  - Ohio State Extension - resources for support of school garden

**Creative Expression**
- Partners:
  - Cleveland Museum of Art

**Applied Science and Technology, Academy of Creative Expression, and Institute of Business, Law and Technology**
- Partners:
  - American University of Paris
  - Cleveland Clinic
The Buckeye-Shaker neighborhood has various architectural styles each imbued with its own historic meaning. Among these styles are Log Cabin, New England Late Colonial, Greek Revival, French Style and Italianate. This section illustrates and explores the wide range of architectural styles present within five focus areas: Shaker Boulevard, Buckeye Road, Griffing Avenue, Moreland Road and Ashwood Road. A comparison of street length, block organization, and building style is done for each of the areas to demonstrate the architectural diversity that exists in Buckeye-Shaker.

Two anchor buildings in the neighborhood have the potential to focus revitalization efforts: the Moreland Theatre and the Learning Campus.
The historical progression of architectural styles in Cleveland

The dominant housing types in Buckeye-Shaker have shifted many times over the years. An analysis of housing age shows that 30% of current residential structures were constructed between 1900-1920, while 50% were constructed between 1920-1940, a distribution reflected in the predominant styles of existing homes. Cleveland’s most characteristic civic buildings remain those of the classical period, and especially the Group Plan ensemble.

Cleveland is founded with the construction of 3 log houses and no distinct architectural style.

Cleveland is incorporated as a city.

Worker housing constructed with a standard frame and gable and a small stoop. Indistinguishable from farm houses in the surrounding area.
Group Plan Commission Formed

Tasked with designing a new civic center for Cleveland, the Group Plan Commission established offices in New York City and studied the designs and plans of great civic centers in Paris, London, Vienna and Florence. In 1903 Burnham, Carrere and Brunner returned to Cleveland and presented "The Group Plan of the Public Buildings of the City of Cleveland", commonly referred to the Group Plan of 1903.

First large move to the Suburbs

Platted subdivisions were created for the working class. Rampant development of these subdivisions lead Cleveland to be built out to its city limits by 1925.

The typical 1910 suburban house was a longer horizontal block with a low or hipped roof, broad imposing front, and a detached garage that acted as a stable.

A duplex style that was replicated all over the city allowing two families to live in one house. Typically one family would purchase the home to live in and act as a landlord to another family that moves in.

Civil War

Mansard Roof in French-style

Italianate

"Cleveland Double"

Suburban Home
Public Square is the four-block central plaza of downtown Cleveland, Ohio. Based on an 18th century New England model, it was part of the original 1796 town plat overseen by Moses Cleveland, and remains today as an integral part of the city’s center.

**War Services Center on Public Square**

The plan designated the entire block east of the Mall and the Public Auditorium for a massive square federal office building adhering to the cornice line of the Group Plan buildings. As built in 1967, however, it became a 31-story office tower of utterly flat reflective surfaces of stainless steel and glass.

**Erieview urban-renewal plan**

A blend of classicism and modernism was contrived by New York architect Malcolm Holzman for the new east wing of the Cleveland public library.

**Cleveland Public Library East Wing Addition (proposed)**

**1980 Building Boom**

PNC Center by SOM
Age of the Building Stock

The majority of Buckeye-Shaker’s structures were built during a period of concentrated residential and commercial development between 1900 and 1920. This is striking, especially when compared to Cleveland as a whole, whose building stock is much more evenly distributed across the 20th century. This speaks to several facets of the neighborhood’s built history. First, it identifies the time at which the outward-moving wave of urban development reached Buckeye-Shaker. Second, it speaks to the durability and quality of the building stock. Third, it indicates a relative lack of interest in new development within Buckeye Shaker since the 1960s.

Source: City Planning Commission
The majority of Cleveland residents rent their homes, in Buckeye-Shaker, a full 65% of residential units are rentals. This high rental rate suggests that Buckeye-Shaker’s population is fairly transient, creating challenges for economic development.

Furthermore, the neighborhood’s housing stock is aging. The majority of the houses are between 90 and 100 years old with a degree of upkeep that varies widely. This contributes to low housing values and a challenging real estate climate.

Sources: Zillow, US Census Bureau, Google Earth

Vacancy | 118 rental properties
Average Rental Rates | $782 monthly
$0.72/square foot monthly

*Buckeye Shaker Housing Stock Overview*

Vacancy | 7 owner occupied properties
Average Age of Houses | 94 years
Price Range of Houses Sold 2011-13 | $750-240,000
Cleveland Sale Price | $67,000
Ohio Sale Price | $143,000

Home Ownership Rates

Buckeye-Shaker | 65%
Cleveland | 51%
Ohio | 31%
National | 33%

Buckeye Shaker Housing Stock Overview

Buckeye-Shaker | 65%
Cleveland | 51%
Ohio | 31%
National | 33%

*Rental Rates*
Cleveland’s commercial real estate market faces many of the challenges of its housing market. This is evident in the Buckeye-Shaker neighborhood. Over the last three years commercial retail properties have sold at prices ranging from as little as $3/square foot to over $200/square foot. The price of property in the neighborhood often has little to do with its location; many high value properties are adjacent to low value properties.

Additionally, Cleveland has one of the highest commercial vacancy rates in the United States, a fact that translates directly into low capitalization rates. Capitalization rates are a real estate developer’s tool for analyzing the properties value in comparison to the future revenue it could generate. Properties in areas with low capitalization rates struggle to improve because developing the property is very risky and unappealing to bank lenders.

Sources: Loopnet, Google Earth

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**Average Price Sold per Square Foot**

- $59/sf
- $85/sf
- $14/sf

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**Sample Commercial Leases + For Sale Property Stock**

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**Cleveland Commercial Real Estate Overview**

- Vacancy | 14%
- Total Retail Space | 25 million square feet

**Retail Market Trends**

- Average For Sale Asking Price | $83/sf
- Average Yearly Rental Rate | $12.18/sf

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Shaker Boulevard is the main transportation artery of the Buckeye-Shaker neighborhood. Along this street and around Shaker Square there is a concentration of dense, high-rise apartment buildings combined with sparse commercial areas and religious institutions.
Architecture Styles

Buckeye Road

Along Buckeye Road, buildings are primarily two-to-three story mixed-use structures with first-floor commercial space and residential units above.
Residences along Griffing are primarily Fairwood and Buckeye Housing and small garden apartment-style multi-family housing.
**Architectural Styles**

**Moreland Road**

Moreland Road features stylish apartments that are part of a designated historic district from north to south.

**Representative Residence: Walk-up Apartments**

**Residence-Multi Family Apartments**
Architecture Styles

Ashwood Road

This road mainly includes varied single-family homes and six-story apartments.

Street View

Institutional Building
Residential Building

Representative Residence- Fairwood Housing

6-unit Apartments
**The Moreland Theater Rehabilitation Project**

The Moreland Theater is of great historical significance as a part of the Buckeye neighborhood’s cultural legacy. The theater was constructed in 1927 and served as a movie theater and performance space. Before World War II, most neighborhoods had at least one movie theater; they performed social functions arguably as important as those of churches and schools. Today, the Moreland is one of Cleveland’s few surviving mixed-use theaters, comprised of both commercial and theater space. The Moreland served a prominent role in the social and cultural life of the neighborhood’s historic Hungarian community. Even today, community members still recall fondly the theater’s magnificence and importance. Buckeye stakeholders desire a community anchor that encourages neighbors to gather for educational, recreation and entertainment programs.

### Basic data:

- **Location:** 11820 Buckeye Road  
- **Construction year:** 1927  
- **Architect:** Braverman & Havemaat Architects and Engineers  
- **Original uses:**  
  - 1,296 seats movie/vaudeville theater.  
  - 4 retail space in the ground floor  
  - 5 Office suites in the upper floor  
  - 2 apartment units in the upper floor  
- **Total area:** 35,553 sqf  
- **Style:** Eclectic late 19th early 20th century revival.  
- **Structure:** Steel frame, brick and stone walls and ceramic tile roof.

### Conceptual Background:

The Moreland’s architectural significance along Buckeye Rd presents an opportunity to provide a neighborhood anchor. Furthermore, the building’s retail and office space is sufficient to serve a variety of programs that can establish the Buckeye corridor as a destination and home.

### New proposed uses:

- Theater/Nightclub/Banquet Space/Community Cultural Center.  
- Bar/restaurant in the ground floor.  
- Small retail/Coffee shop in the ground floor.  
- Office space upstairs/ Studio spaces

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**Current view from theater lobby**

**Current view of main theater space**

**Current view of Mezzanine seating area.**

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**Current view (2013) of The Moreland Theater along Buckeye Road**

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**Original facade and use of The Moreland Theater in the 1920's.**
The Learning Campus

The Rice Branch Library and Harvey Rice School

The Harvey Rice Learning Campus is a 5-acre, shared-site project that includes the Rice Branch Library and Harvey Rice School. This $22 million investment is located in the heart of the neighborhood, just north of the RTA station and east of Saint Luke's Manor. Completed in 2010, the campus is a result of collaboration between the community and the Cleveland Metropolitan School District, Cleveland Public Library, Saint Luke's Foundation, Cleveland Foundation, Neighborhood Progress Inc., ParkWorks, and Cleveland Public Art. While the project’s design demonstrates environmentally sound principles, it is the programmed events and activities that bring the buildings to life as community assets.

Programming

Both institutions offer different programs to engage community members of different ages: children, teenagers, adults and senior citizens can all benefit from the campus’ free programming.
The face of Buckeye Road

Frontages along Buckeye Road

Building frontages along Buckeye reveal both its issues - vacancy, decaying building stock, aesthetically displeasing façades - and its assets - intermittent moments of truly high quality built fabric, and the neighborhoods’ palpably rich built history.

By exploring the corridor as a continuous entity, approaches to street improvement can be devised at a more holistic scale than would otherwise be possible.
114th Street

116th Street
**3D Model**

**Detail Of Building Along The Buckeye Road**

The 3D model visualizes the primary spatial characteristics of Buckeye-Shaker and the Buckeye corridor. It provides the research team with a sandbox that can serve as the basis for planning and design proposals. It also helps us to deliver legible and vivid images of Buckeye, reinvigorated.