

Grand Traverse County

Growth & Investment Area Study
And Commercial Corridor Inventory



FRAMEWORK FOR OUR FUTURE

A REGIONAL PROSPERITY PLAN
FOR NORTHWEST LOWER MICHIGAN

2014 Edition

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Networks  Northwest
Talent / Business / Community

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Introduction

The vitality of our villages and cities and their central business districts and commercial corridors is a critical part of what determines our standard of living in Northwest Michigan. Without economically viable and vibrant commercial areas our ability to earn a living, purchase goods and services, and learn of new opportunities would fail to meet our expectations and needs. Lending support to the self-evident importance of our Northwest Michigan villages' and cities', is a wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life. To provide the best foundation for our citizens to maximize their individual potentials it is essential that these areas attract growth and investment as the area grows.

The disciplines of planning and economic development imply the ability to analyze a situation and gauge the effectiveness of policy choices. The complexity of our interactions has always been a difficult mountain to climb for discovering which policies lead to successful outcomes. However, we gain better tools to help us sort through the complexities every year. Today's Apple iPad has the computing power of a super computer from 20 years ago. Increasingly we have the ability to make use of large amounts of data to help make better decisions. Not taking advantage of these tools, can potentially lead to the waste of the public and private wealth that Northwest Michigan works so hard to build.

To insure economically healthy and vibrant communities in Northwest Michigan, we need to study how our various communities are preparing themselves to leverage growth and investment forces to assist in achieving their community's goals. The first step is the identification of communities or areas that are preparing for growth and investment. Are they maximizing the benefits, while minimizing the impacts to our predominately rural setting and natural landscapes?

In addition to learning which locally implemented policies are successful, it is useful to measure key components of growth and investment, as identified by experts in the field of community economic development. Understanding where our Northwest Michigan communities fall on the scale of a group of select factors will provide potential goals for communities interested in maximizing their potential outcomes for their citizens. Studying these areas and learning what policies are working and which ones are not, will ultimately help to maintain and improve life in Northwest Michigan.

In order to gauge how our communities are growing, attracting economic activity, and putting in place policies that maximize potentials, Networks Northwest has conducted studies of Growth & Investment Areas (G&I Areas) and their associated Commercial Corridors, with the assistance of the State of Michigan Regional Prosperity Initiative (RPI) and the Partnership for Sustainable Communities, a cooperative program of the U.S. Department of Housing and Urban Development (HUD), the U.S. Department of Transportation (DOT), and the U.S. Environmental Protection Agency (EPA). This companion document to the Regional Prosperity Plan collected data from a variety of public and commercial providers, as well as conducted interviews of public officials, which were synthesized into this report.



Growth & Investment Areas

Elements of Identification

A community asset inventory survey was conducted in 2010 by the Northwest Michigan Council of Governments in conjunction with the Growth & Investment Network, which was initially formed during the community engagement portion of The Grand Vision. The survey collected responses from cities, incorporated and unincorporated villages, townships, and planned growth areas in Antrim, Benzie, Charlevoix, Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, and Wexford counties. The results of the survey were used to develop criteria for selecting areas from the region that were best positioned to accommodate future growth patterns anticipated for northern Michigan over the next 25 years. Initially, five criteria were chosen to select areas for additional analysis regarding their Growth & Investment readiness, trends, and capabilities. The five criteria are:

1. Operational Municipal Water System
2. Operational Municipal Sewer System
3. Approved Master Plan that recommends a defined higher density downtown core for development & investment
4. A Zoning Ordinance in place that codifies higher density development in the downtown core
5. Available Governmental Staff to process requests and permits

The community asset inventory was updated in 2012 with respect to these five criteria and then used to select the initial Growth & Investment areas for additional study. This resulted in 31 areas being selected. In those 31 initially identified Growth & Investment Areas, there are 42 individual units of government comprising the core commercial development areas. These 42 units of government were contacted by the Networks Northwest and asked to assist this study by providing time with staff or elected officials to conduct the Commercial Corridor Inventory Interviews.

Commercial Corridor Inventory Interviews

As a central component of this project, units of government in the initial selection of G&I Areas were interviewed to collect their responses to questions regarding master planning, land use, capital improvement, transportation, infrastructure, and community marketing policies. The communities were asked to select their best qualified personal and/or elected official(s) to participate. Additionally, these interviews asked the local units of government to self-identify their commercial corridors of significance. The interviews were conducted from December 2012 to March 2014.

The interviews were conducted using a checklist tool called the *Commercial Corridor Inventory*. This inventory was designed to be objective and focused on current attributes, not future plans. Most of the Inventory's questions required a simple "Yes/No" answer; however they also contained an "Additional Comments" space to expand upon the answers or in many cases indicate policy areas that are currently in the development stage. Many of the policy questions relate to a sampling of best practices from the Michigan Economic Development Corporation's (MEDC) Redevelopment Ready Communities (RRC) program.

The commercial corridors were identified by the units of government based on their own criteria for significance to their community after receiving a brief introduction to the goals for the study. The corridor identification information from the interview was then entered in a Geographic Information System and place database for the mapping and analysis contained in this report.

Focus for Growth & Investment Study

The wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life was used as a guide in the development of the analysis components for Northwest Michigan Growth & Investment Area Studies and Commercial Corridor Inventories. This study is not intended as a one size fits all yard stick for Northwest Michigan communities to measure their status with respect to growth and investment. Some communities may choose to focus on areas that can assist in maintaining the viability of their community's existing business establishments and others may choose to focus their attention on areas that can grow their local economies and population. One of the study's components that contains a mix of evaluation tools is a Growth Readiness Assessment. The mix of included criteria contain some that apply to all communities regardless of size and some that are designed primarily for larger communities. Communities should evaluate which study criteria are of value in gauging progress on the individual growth and investment goals they have set for their communities.

Growth & Investment Readiness Assessments

■ Original Selection Criteria

Municipal Water & Sewer

Determining the density limit for individual residential septic systems is a complex issue and is based on an understanding of the site specific hydrology and water quality impacts. Michigan is the only state without specific state enabling legislation related to on-site wastewater treatment systems. Regulatory control over conventional septic tank and drain field siting, design, and construction is under the jurisdiction of local health departments. (Michigan Department of Environmental Quality 2004) The commonly accepted housing density standards before Municipal Water or Sewer are required may be summarized as follows: (American Society of Planning Officials 1952)

- *Two families to the acre where both water and sewage systems are lacking.*
- *Four families to the acre where either water or sewer systems are lacking.*
- *Greater density where both facilities are provided.*

As a caveat to these standards, studies have indicated that depending on the site conditions, even one family to the acre may not be sufficient to protect water quality and guard against conditions that could lead to premature failure of Onsite Sewage Disposal Systems.

Thus for the greater density made possible by community water and sewer service together with the greater environmental protections that properly maintained and updated municipal systems can achieve, This study focused on communities that had municipal systems in place or were trending towards implementing them.

Government Staff

In order to process development requests as well as having the capacity to analyze the successes and failures of land use application reviews, this study focused on communities that had sufficient staff resources.

Master Plan Includes Higher Density Center

The previous Community Asset Inventory reviewed community master plans to determine if they contained goals for the establishment of a higher density core or downtown. This was determined as a key predictor of the community's capability to accommodate future growth.

Zoning Ordinance Supporting Master Plan Density Center

As with the master plan high density center criterion, the previous Community Asset Inventory reviewed community zoning ordinances to determine if they codified the master plan goals for the establishment of a higher density core or downtown.

■ Census Data Criteria

Core Place Population Increasing

One of the effects of Northwest Michigan's vacation market, is declining year round population for some of the communities with high rates of second home ownership. This can lead to year round cash flow challenges for the local retail sector. As a result this study chose to track changes in Core Place population as a potential indicator for the sustainability of retail business activity.

Housing Growth Rate Over 15% (2000-2010 Census)

The criterion of a 15% housing growth rate for the period between the 2000 and 2010 Censuses assists in determining which communities presently are experiencing significant development activity.

Core Place Housing Growth Increasing Faster than Surrounding Area

This criterion is utilized as a measure of how our rural quality is being preserved by minimizing sprawl. It is measured by the percentage change of housing in the Core Place over the Growth & Investment Area as a whole from the 2000 to 2010 decadal Census. Other techniques for measuring of sprawl, such as satellite spectral analysis for changes in impervious surface, could be employed in the future provided sufficient budget availability.

Census Class (Rural, Urban Cluster, Urbanized Area, MSA)

The US Census provides a classification of rural and urban areas that is helpful in determining growth and concentrations of population (see: 2010 Census Urban and Rural Classification and Urban Area Criteria, page 91)

Job Density Over 75 Jobs per Acre in Commercial Corridors

A study on density as it relates to the reduction of Single Occupant Vehicle (SOV) trips and transit use found that SOV travel decreases at employment densities of 20 to 50 jobs per acre, and transit use increases dramatically at densities over 75 jobs per acre. (Frank and Pivo 1994) The Growth & Investment study chose to measure Job Densities over 75 jobs per acre to indicate corridors with strong demand for fixed route transit. In addition to transit benefits, workers support nearby retail and food service business. On average, an office worker can support 7 square feet of restaurant space and 23 square feet of retail space. (Gibbs 2012)

50% of Workers Living within 5 miles

The criterion of determining whether 50% or more of the workers are living within a 5 mile commute of jobs located in Growth & Investment Core Places was selected to measure potential positive agglomeration effects for real wage growth as supported by the economic studies cited previously in this report.

■ Zoning Policy Criteria**Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors**

The criterion of 30 dwellings per acre was selected for study based on studies of density thresholds required for high quality walkable communities. This density is also supportive of transit operations.

Zoning Allows Mixed-Use by Right in Commercial Corridors

Walkable communities require a mix of uses to be successful in providing transportation options demanded by market shifts in housing preferences. Requiring a “Special Use” process for mixed use land use applicants can lead to constraints on the supply of mixed use development over the less cumbersome “By Right” zoning and thus hamper the success of establishing vibrant walkable communities.

Zoning Allows Multi-Family Residential by Right in Commercial Corridors

Multi-Family housing is increasingly in demand as the housing market shifts to smaller households looking for walkable communities. This criterion evaluates a communities policy restrictions on the supply of multi-family housing development.

Building Height Limits Greater than 35 feet in Commercial Corridors

Allowing Building Height limits greater than 35 feet gives greater flexibility for both creating density in Core Places and allocating public space to critical placemaking efforts that help build vibrant communities.

No On-Site Parking Requirement in Central Business District

Many traditional Northwest Michigan downtowns development patterns were established before the establishment of auto parking requirements. Many existing historic downtowns can't meet the typical auto centric parking requirements without utilizing premium downtown real estate for large surface parking. Additionally, trends as outlined in this document are reducing vehicle ownership rates and thus parking requirements. This criterion helps to assess a Growth & Investment Area's flexibility to accommodate new market trends.

Density Bonuses Offered for Contributions towards Public Policy Goals

The lack of supply of affordable housing has been identified as an issue for Northwest Michigan's economic competitiveness. This fact together with the need to create vibrant communities while protecting the areas natural resources can be partially addressed with policies such as density bonuses. This study is tracking community incentive policies for addressing these regionally important goals.

■ Placemaking Criteria**Placemaking Elements in Support of Walkable Corridors**

Placemaking elements that support walkable mixed-use corridors were selected as criterion for the assessment. These elements include the presence of theaters and entertainment venues, grocery stores, parks and pocket parks, and the abundance of pedestrian connections. This selection is not intended to diminish the importance of

other placemaking elements supportive of walkable corridors, but the ability to seek entertainment, purchase food, and recreate within a pedestrian friendly environment where considered important factors to measure.

Retail Hub

This criterion evaluates whether a communities retail sector acts as a local or regional hub. (see: Retail Classification: page 94)

Educational Institutions (Trade Schools, Community Colleges, Universities)

In studying the performance of economic clusters, educational institutions play an important role in concentrating entrepreneurial activity and fostering growth and investment.

Contain Medical Centers

With the high concentration of senior demographics in Northwest Michigan's population, this study gave significance to medical infrastructure as a predictor/indicator of growth.

Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)

While the Zoning Policy Criteria is looking at zoning densities sufficient to create viable walkable communities, this criterion tracks actual densities as determined by the 2010 Census.

■ Opportunity Criteria

Community Identified Development Opportunities

The presence of community identified development opportunities demonstrates that the community is proactive about development and has devoted resources towards potential future growth and investment.

Marketing Redevelopment & Infill Sites

Potential development sites are abundant, especially in the current post-recession economic recovery period. The existence of a marketing effort by communities of redevelopment and infill sites can lead to a greater probability of attracting development activity.

Fixed Route Transit (Headways 15 mins or less)

According to The Transit Cooperative Research Program headways of 15 minutes or less is an acceptable threshold for employment commuting transit use, with 10 minutes or less being ideal.

Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)

Traffic Counts are a determinate of the retail site viability. Average Annual Daily Counts of 10,000 can augment a neighborhood or village store's business, making it sustainable for market areas with less than the required 800 to 1,000 households that are need to support them. Larger retailer site selection criteria typically require traffic counts from 20,000 to 40,000 depending on the specifics of the capture rate.

■ Infrastructure Criteria

Additional Water & Sewer Capacity

Municipal water and sewer expansions take a significant time to permit and build. If the municipal water and sewer capabilities are at their limits, businesses looking to expand or relocate to a new facility may not be in a position to wait for the completion of an expansion project. It is important that communities plan for sufficient capacity reserve to accommodate new service and provide for time to properly plan additional expansions.

Broadband Service over 1 Gbps Available

The next-generation of broadband service is providing speeds over 1 Gigabit per Second (Gbps) These speeds rely on fiber optic wires that run all the way to the premises referred to Fiber To The Home (FTTH) or Fiber To The Premises (FTTP). FTTH Consumers consistently rate it as the fastest and most reliable broadband technology. They also appreciate that fiber networks can deliver many unique broadband services for medicine, education, home-based businesses, home automation and entertainment. "There's growing evidence among economic development officials that fiber connectivity encourages businesses to stay, helps businesses grow and become more productive, and attracts new businesses, particularly in high-tech industries." (Broadband Communities 2013) In the United States, one of every five households is within reach of fiber, and nearly 10 million households are using FTTH services now.

Municipal WiFi

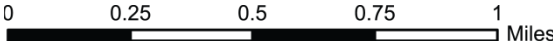
Wireless services are important public amenities, especially for younger population demographics, and are highly desirable in targeted areas such as pedestrian friendly commercial corridors and public areas. The existence of Municipal WiFi is an indicator of support for new infrastructure development important for growth and investment.

Growth & Investment Area Maps Legend



North Directional










Mileage Scale



Corridor Identification










-  Commercial Corridor Identification Number Graphic
-  Community Defined Commercial Corridors

Map Area Key

-  Land
-  Bordering County
-  Bodies of Water
-  Municipal Boundary
-  Urban Cluster (as defined by the 2010 Census)
-  Municipal/Urban Cluster Overlap Area
-  Census Designated Place (CDP)

Commercial Corridor Maps Legend

Points of Interest

-  Public Use Airport
-  College
-  Cultural Site
-  Grocery Store
-  Hospital
-  Library
-  School
-  Theater/Entertainment Venue
-  Transit

North Directional



Mileage Scale


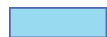
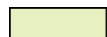



Study Area Outline



The Study Area is delineated by the area within .25 miles of the community defined commercial corridor (red line) and is shaded in a transparent red. Area calculations are derived from the land area only. For the purposes of pulling Census information, any 2010 Census block that is fully or partially contained with the study area was utilized in the data summaries.

Map Area Key

-  Land
-  Bodies of Water
-  Municipal Boundary
-  Urban Cluster (as defined by the 2010 Census)

Growth & Investment Area Unit(s) of Government:

Village of Fife Lake, Fife Lake Township

Core Place Census Areas:

Village of Fife Lake

County

Grand Traverse

Census Class

Rural

Land Area

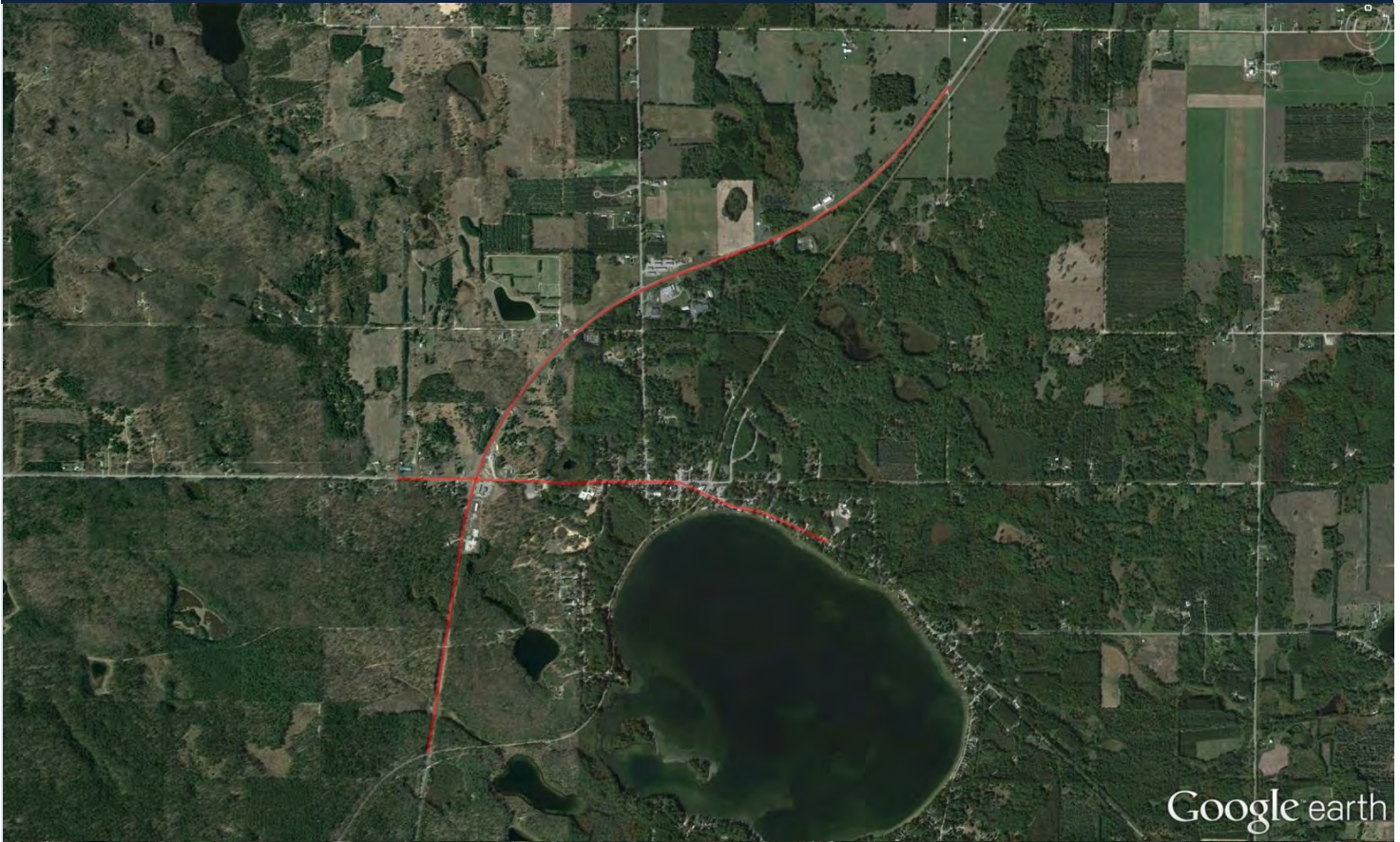
G&I Area

34.60 sq. miles

Core Place

0.75 sq. miles

Aerial Map with Commercial Corridors



2 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	5,741	<i>2013 Data Year</i>
Population Density Range of G&I Area Corridors (per acre)	0.2 - 0.7	<i>Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)</i>
Gross Neighborhood Density Range of G&I Area Corridors (per acre)	0.3 - 1.2	
Job Density Range of G&I Area Corridors (per acre)	0.0 - 0.1	
Worker Density Range of G&I Area Corridors (per acre)	0.1 - 0.6	

Retail

Total Sales	\$3,776,423	Classification:	Retail Potential Exporter
Potential Sales	\$13,261,241		
Leakage	\$9,484,818	Seasonal Housing:	21.4% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Declining by -1.9%

Population

2000-2010: *Growing at 5.0% with the Core Place Declining at -4.9%*
Average Age: 39.2 [*+5.9% change from 2000 Census*]
Demographic Shifts: *Generation X had the largest % gain (up 167.9%); Silent Generation had the largest % loss (down -12.4%)*

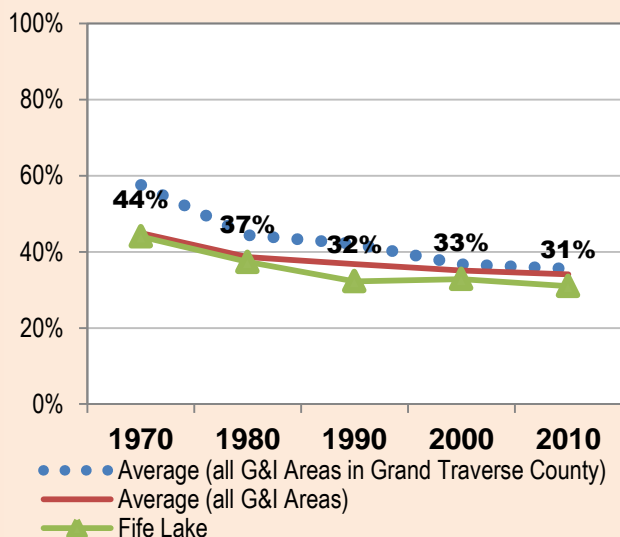
Jobshed

Worker Exporter – Resident Worker population exceeds the number of Jobs by 95%

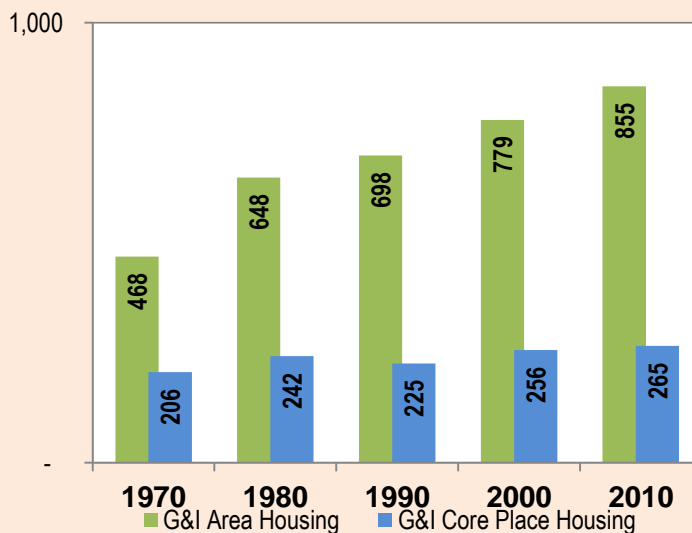
Population & Housing Trends

Census Data	Core Place	G&I Area
	Village of Fife Lake	Village of Fife Lake, Fife Lake Township
Total Population (2010)	443	1,462
Percentage Change from 2000	-4.9%	+5.0%
People per Acre	0.92	0.07
People per Square Mile	591	42
Average Age [% Change from 2000]	40.0 [+15.7%]	39.2 [+5.9%]
Total Housing (2010)	265	855
Percentage Change from 2000	3.5%	9.8%
Gross Neighborhood Density (per acre)	0.55	0.04
Total Households (2010)	189	604
Percentage of Households without Children (under 18)	68%	67%
Study Area Size (Land Cover)		
Acres	480.00	22,144.00
Square Miles	0.75	34.60

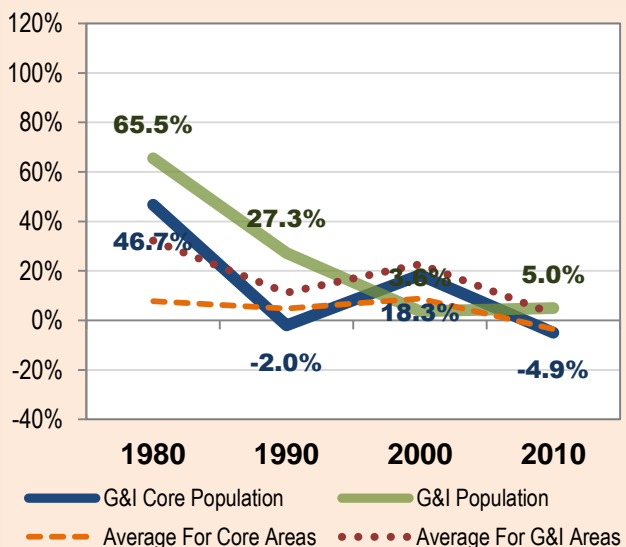
Housing in Core Place as a Percentage of Total Growth & Investment Area



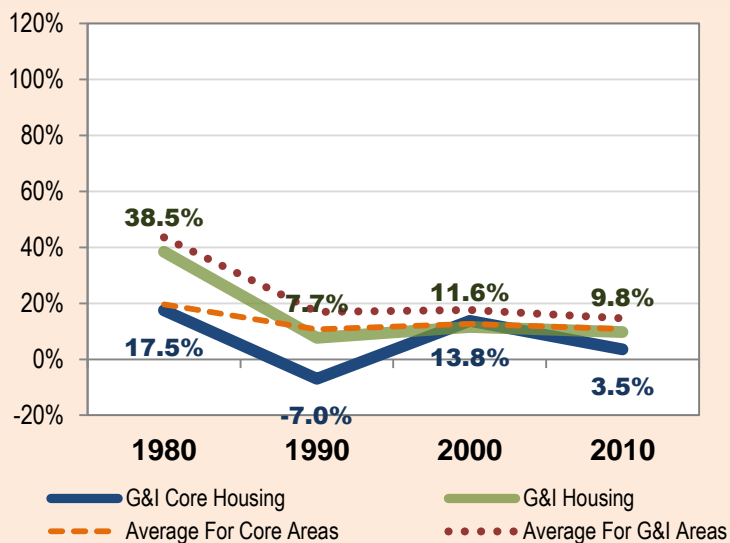
Housing Units in G&I Area and Core Place



Percentage Change in Population in G&I Area and Core Place



Percentage Change in Housing Units in G&I Area and Core Place



Growth & Investment Readiness Assessment

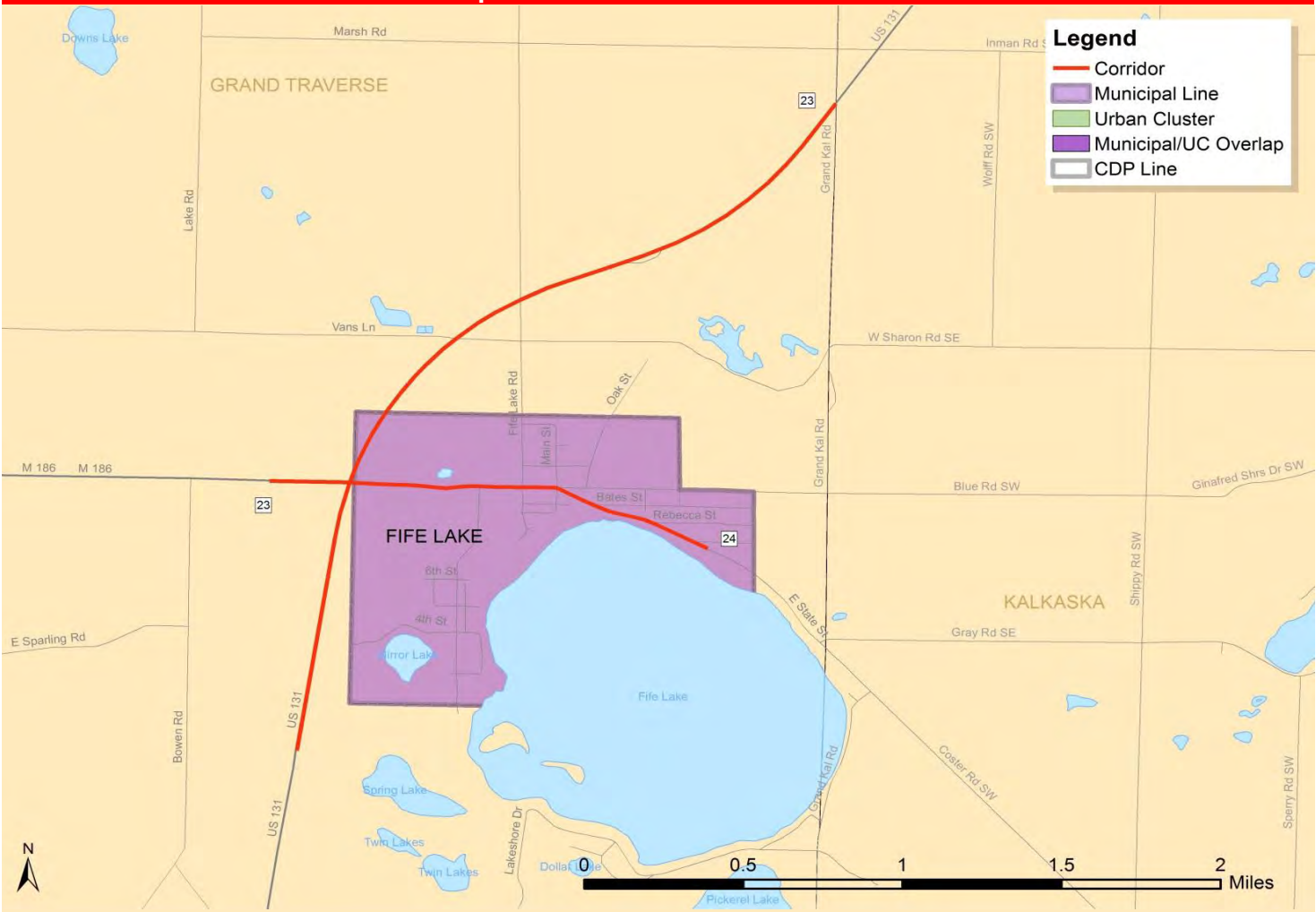
Criteria Status

		Criteria Status	
Initial Selection Criteria	1	Municipal Water	No
	2	Municipal Sewer	Yes
	3	Government Staff	Yes
	4	Master Plan Includes Higher Density Center	Yes
	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
Census Data	6	Core Place Population Increasing	No
	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
Zoning Policy	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
	15	Building Height Limits Greater than 35 feet in Commercial Corridors	No
	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
Placemaking	18	4 Key Placemaking Elements in Corridors	No
	19	Retail Hub	No
	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
Opportunity	24	Community Identified Development Opportunities	Yes
	25	Marketing Redevelopment & Infill Sites	No
	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
Infrastructure	26	Additional Water Capacity	No
	27	Additional Sewer Capacity	Yes
	28	Broadband Service over 1 Gbps Available	No
	29	Municipal WiFi	No

Commercial Corridors

ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
23	Fife Lake US131 Corridor	17,026	0.3	0.2	0.0	0.1
24	Fife Lake State Street Corridor	6,185	1.2	0.7	0.1	0.6

Growth & Investment Core Place Map with Commercial Corridors



Housing Data

Census-ACS Data	Core Place Village of Fife Lake	G&I Area Village of Fife Lake, Fife Lake Township
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Housing Efficiency Rating (Average HERS)

Efficiency compared to 2012 DOE Challenge Home (30 HERS)

285

255% Less Efficient

258

228% Less Efficient

Percentage Built by Year

Before 1940	24%	10%
1940-1949	0%	4%
1950-1959	11%	9%
1960-1969	4%	11%
1970-1979	28%	25%
1980-1989	8%	10%
1990-1999	12%	15%
2000-2009	12%	16%
Later than 2010	0%	0%

Average Age

1965

1973

Median Value

\$85,000

\$135,000

Village of Fife Lake	\$85,000
Fife Lake Township	\$135,000

Home Heating Fuel

Percent of Homes Natural Gas	78%	50%
Percent of Homes Using Propane	20%	27%
Percent of Homes Using Wood	1%	14%
Percent of Homes Using Solar Energy	0%	0%

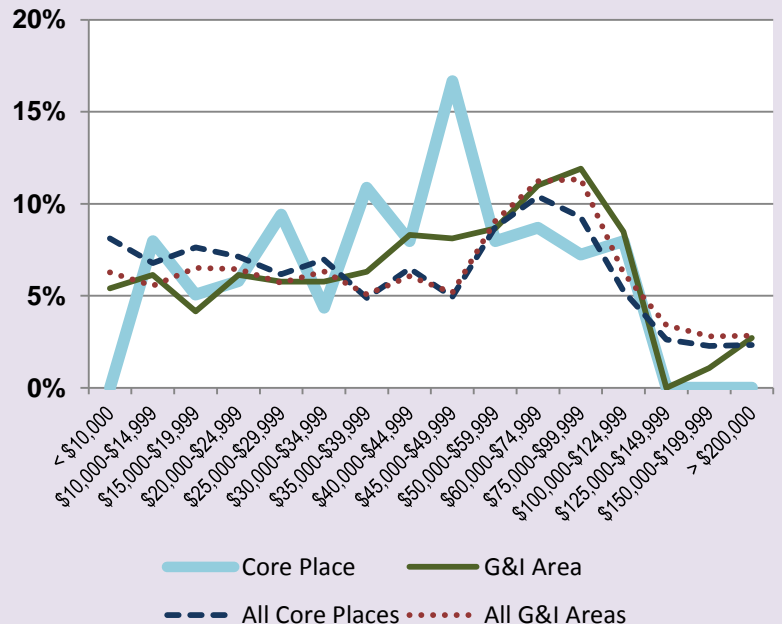
Personal Income

Census-ACS Data (2008-2012 5 Year Summary File)

Median Household Income (2012 Dollars)

Core Place	\$44,000
Village of Fife Lake	\$44,000
G&I Area	\$45,809
Village of Fife Lake	\$44,000
Fife Lake Township	\$45,809

Household Income Distribution



Per Capita Annual Income (2012 Dollars)

Core Place	\$21,848
G&I Area	\$14,963

Policy

Data Source: Commercial Corridor Inventory Interview	Core Place Units of Government Interviewed			
	Village of Fife Lake			
Year of Master Plan Approval	2011			
<i>Master Plan Update</i>	NA			
Community Economic Strategy	No			
<i>Economic Strategy Coordinates with Regional Strategy</i>	NA			
Growth & Investment Strategy	Yes			
<i>Identify Areas of Focus for Growth & Investment Strategy</i>	Yes			
<i>Active G&I Strategy Development Discussions</i>	NA			
<i>Planning Zoning Benchmarks</i>	NA			
Development Opportunities on Corridor	Yes			
<i>Redevelopment Priorities Identified</i>	Yes			
<i>Redevelopment Resources Identified</i>	Yes			
<i>Market Potential Development Sites</i>	No			
Guides and Resources				
<i>Publish Development Guide</i>	Yes			
<i>Zoning Orientation Package Provided to Staff & Committees</i>	No			
<i>Zoning Training Funding</i>	No			
Community Marketing Strategy	No			
Area Plans				
<i>Downtown Plan</i>	Yes			
<i>Downtown Development Authority</i>	DDA Established 1993			
<i>Corridor Improvement Plan</i>	No			
<i>Corridor Improvement Authority</i>				

Zoning

Zoning Authority with Identified Commercial Corridors	Districts in Identified Commercial Corridors	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowed in Corridors
Village of Fife Lake	R-1 R-2 C-1 C-2	38	25%	25%	35 ft
Fife Lake Township	R-2 FR C-1 I-1	47	0%	0%	30 ft

Infrastructure

Data Source: Commercial Corridor Inventory Interviews

Units of Government Interviewed

Village of Fife Lake

Municipal Water Service

No

Additional Capacity

NA

Water Reliability Study

NA

Wellhead Protection Plan

NA

Municipal Sewer Service

Yes

Additional Capacity

Yes

Waste Water Master Plan

No

Broadband

Available In Core Place

Available Technologies

Fiber (non FTTH)

Yes

Cable

Yes

DSL

Yes

4G Wireless

Yes

Municipal WiFi

No

Fixed Wireless Broadband

Yes

Available Speeds

Ultra - Greater than 1 Gigabit Per Second (Gbps)

No

High - 100 Mbps to less than 1 Gbps

Yes

Energy

Available In Core Place

Natural Gas

Yes

Underground Electric Service

No

Renewable Energy Generation

No

Commercial Corridor Placemaking Elements

Placemaking Elements Supporting Walkability

ID Name

Theaters & Entertainment Venues

Grocery Stores

Parks & Pocket Parks

Pedestrian Connections

Job / Population Ratio

23 Fife Lake US131 Corridor

No

Yes

Yes

Yes

0.064

24 Fife Lake State Street Corridor

No

No

Yes

Yes

0.048

Talent Jobshed

Census Data	Core Place	G&I Area
	Village of Fife Lake	Village of Fife Lake, Fife Lake Township
Workers Living within Study Area	212	957
Worker Density (per acre)	0.44	0.04
Worker's Earnings		
% with earnings \$1250/month or less	31%	28%
% with earnings \$1251/month to \$3333/month	39%	42%
% with earnings greater than \$3333/month	30%	30%
Jobs Located in Area	20	47
Job Density (per acre)	0.04	0.00

Commute Data for Workers Employed in Core Place

Commuting data for workers residing from 2 - 175 miles from G&I Area

Commuting Workers	17	5% Commuting 5 Miles or Less
Total Daily One Way Commute for all Commuters		
Route Distance (Miles)	448	
Commute Time (Minutes)	580	
Total Annual Commute for all Commuters		
Distance (Miles)	235,184	
Time (Hours)	5,073	
Annual Commuting Costs		
Total Fuel Cost	35,789	
Total Cost (IRS 2014 Standard Mileage Rate)	\$131,703	
Average Per Worker Commute	Daily (2-Way)	Annual
Distance (Miles)	53	13,834
Time (Hours)	1.1	298
Cost (IRS Standard Mileage Rate)	\$30	\$7,747

Retail Activity

	Core Place Activity	G&I Area Activity	County Activity
Total Retail Sales	\$1,164,784	\$3,776,423	\$1,174,416,760
Total Potential Retail Sales	\$4,100,017	\$13,261,241	\$874,196,195
Leakage	\$2,935,233	\$9,484,818	(\$300,220,565)

Classification: *Retail Potential Exporter*

Residents of the Fife Lake Growth & Investment Area are making 72% of their purchases at businesses located outside the area.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$0	\$1,660,519	0%
Health/Personal Care Stores	\$521,857	\$1,097,889	48%
Clothing & Accessories Stores	\$0	\$597,738	0%
Sport/Hobby/Book/Music Stores	\$58,597	\$307,885	19%
General Merchandise Stores	\$0	\$2,762,221	0%
Food & Beverage Establishments	\$356,645	\$1,155,142	31%
E-Shopping/Mail-Order	\$0	\$672,221	0%

Corridor Street Name(s): US131 from County Line Road to Village Limits; US131 from M186 to Railroad Crossing; US131 from N Village Limits to M186; M186 from Kennie's Lane to US131

Corridor Classification: Central Business District, Commercial/Industrial, Commercial

Unit(s) of Government: Fife Lake Township, Village of Fife Lake

Length: 3.22 miles

Street Classification: Principal Arterial - Other, Major Collector

2013 Traffic Volume(AADT): 5,741 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

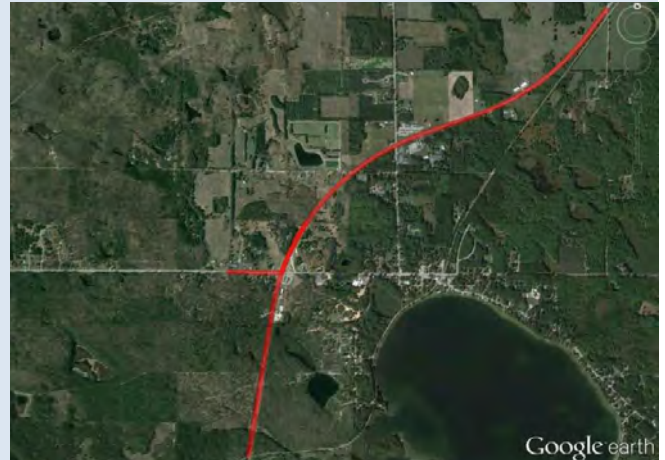
Transit Service: BATA - Dial-A-Ride

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: None

Walk Score: 15



Corridor Overview

This corridor's development recognizes the reality of the coming growth of Grand Traverse County with the improvement of the US-131 corridor north of Cadillac. In addition, as the southern portion of the County continues to grow, commercial services for retail, recreation and repair shall be required by the expanding population including the needs of the vacation traveler. This corridor accommodates industrial activity and is intended to provide economic development and jobs for the community. The area shall include industrial and office use suited for a small, relatively rural community. Because of the relative proximity of this area to residentially developed areas, sites that adjoin residential areas shall include vegetative buffers and larger building set backs shall be promoted to control such off-site impacts as odors, noise, lighting, transportation and vibration.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Fife Lake Township or Village of Fife Lake)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Fife Lake US131 Corridor	Village of Fife Lake	Fife Lake
Total Population (2010)	391	443	1,462
People per Acre	0.35	0.92	0.07
People per Square Mile	221	591	42
Total Housing (2010)	208	265	855
Gross Neighborhood Density (per acre)	0.18	0.55	0.04
Study Area Size (Land Cover)			
Acres	1,132.28	480.00	22,144.00
Square Miles	1.77	0.75	34.60
Workers Living within Study Area	124	212	957
% with earnings \$1250/month or less	22%	31%	28%
% with earnings \$1251/month to \$3333/month	45%	39%	42%
% with earnings greater than \$3333/month	33%	30%	30%
Jobs Located within Study Area	25	20	47
Job Density (per acre)	0.02	0.04	0.00

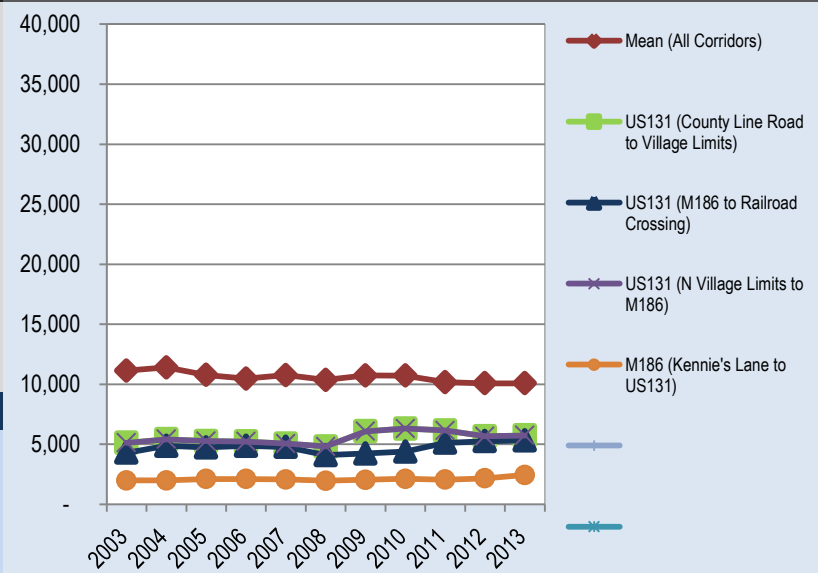
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
Village of Fife Lake: C-2	0%	0%	0%	0.0	0.0	35 ft
Fife Lake Township: R-2 FR C-1 I-1	75%	0%	0%	0.2	47.1	30 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	No	N/A
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband		
	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	No
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): State Street from US131 to Anthony Street

Corridor Classification: Central Business District

Unit(s) of Government: Village of Fife Lake

Length: 1.17 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel

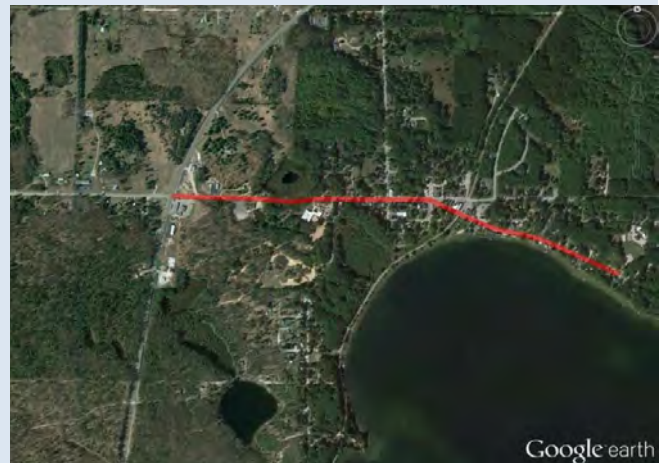
Transit Service: BATA - Dial-A-Ride

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks

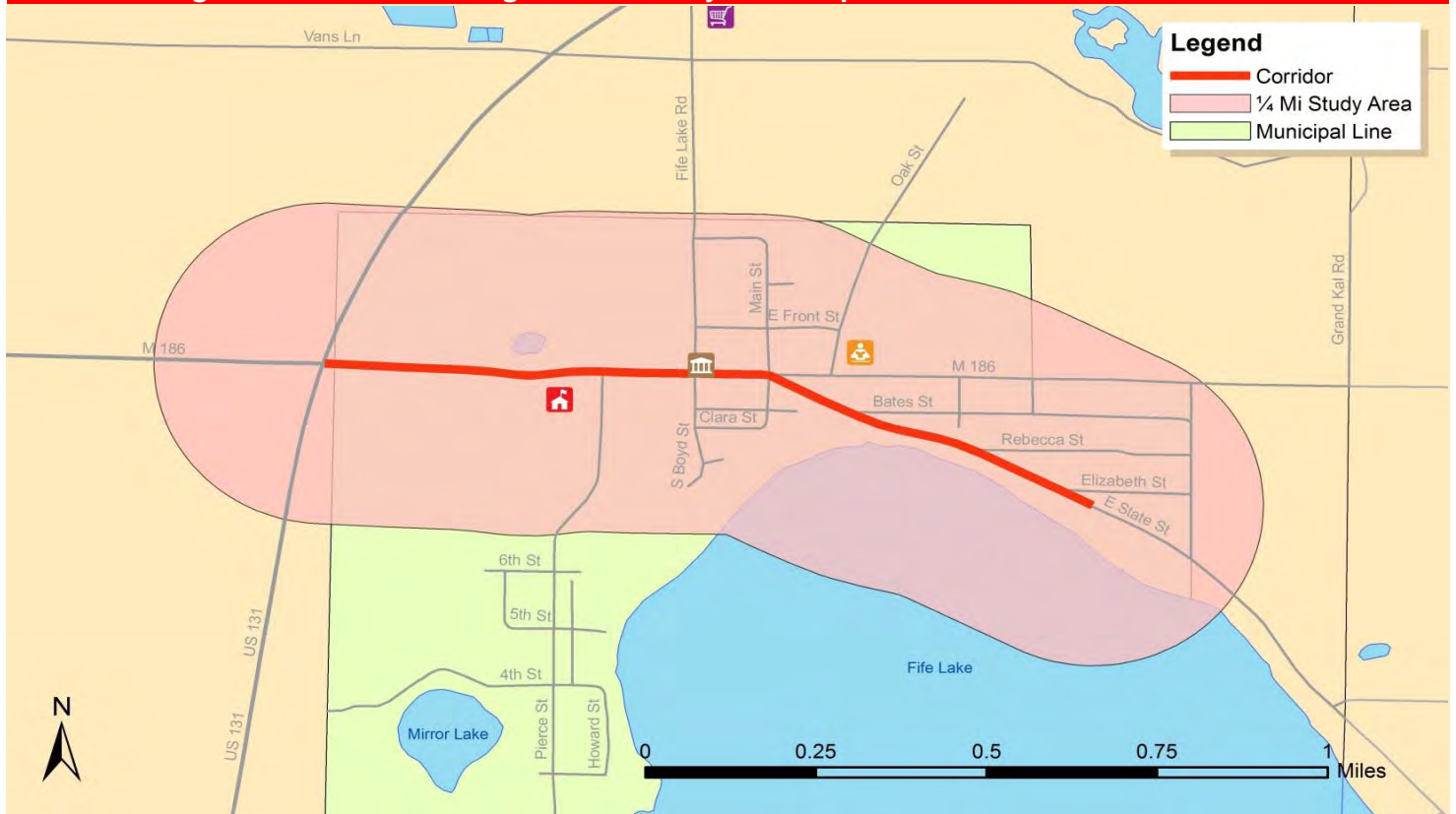
Walk Score: 48



Corridor Overview

Fife Lake was established in 1872, the Village of Fife Lake was incorporated in 1889. Since its establishment the downtown business district has served the village and the surrounding area including Fife Lake, Springfield, Boardman and Union townships. Fife Lake's Downtown Development Authority was established in 1993 to enhance and revitalize our downtown business district.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Village of Fife Lake)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Fife Lake State Street Corridor	Village of Fife Lake	Fife Lake
Total Population (2010)	484	443	1,462
People per Acre	1.21	0.92	0.07
People per Square Mile	775	591	42
Total Housing (2010)	299	265	855
Gross Neighborhood Density (per acre)	0.75	0.55	0.04
Study Area Size (Land Cover)			
Acres	399.60	480.00	22,144.00
Square Miles	0.62	0.75	34.60
Workers Living within Study Area	225	212	957
% with earnings \$1250/month or less	28%	31%	28%
% with earnings \$1251/month to \$3333/month	41%	39%	42%
% with earnings greater than \$3333/month	31%	30%	30%
Jobs Located within Study Area	23	20	47
Job Density (per acre)	0.06	0.04	0.00

Zoning

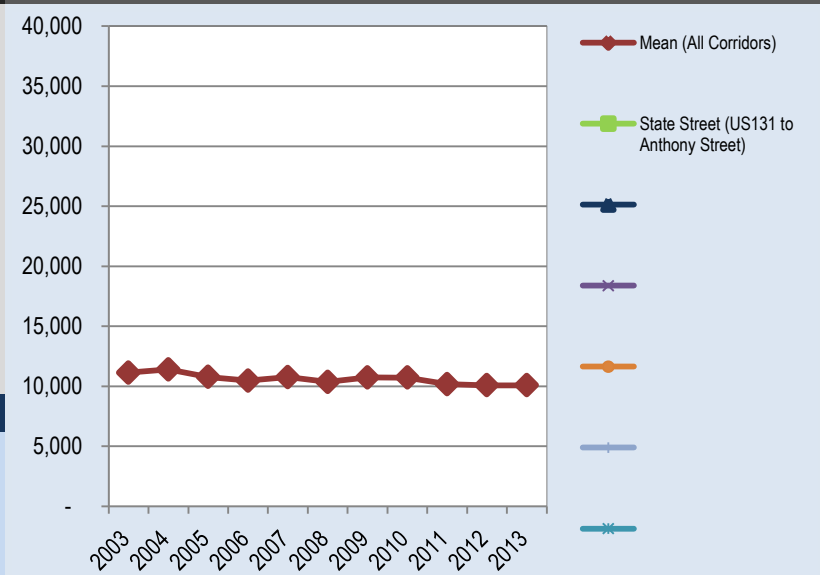
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1 R-2 C-1 C-2	75%	25%	25%	5.8	38.2	35 ft

Infrastructure

Public Utilities		
Sewer	Yes	<i>Additional Capacity</i>
Water	No	<i>N/A</i>
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies <i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>	

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	Yes
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Fife Lake Public Library</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Growth & Investment Area Unit(s) of Government:

Green Lake Township

Core Place Census Areas:

Interlochen CDP

County

Grand Traverse

Census Class

Rural

Land Area

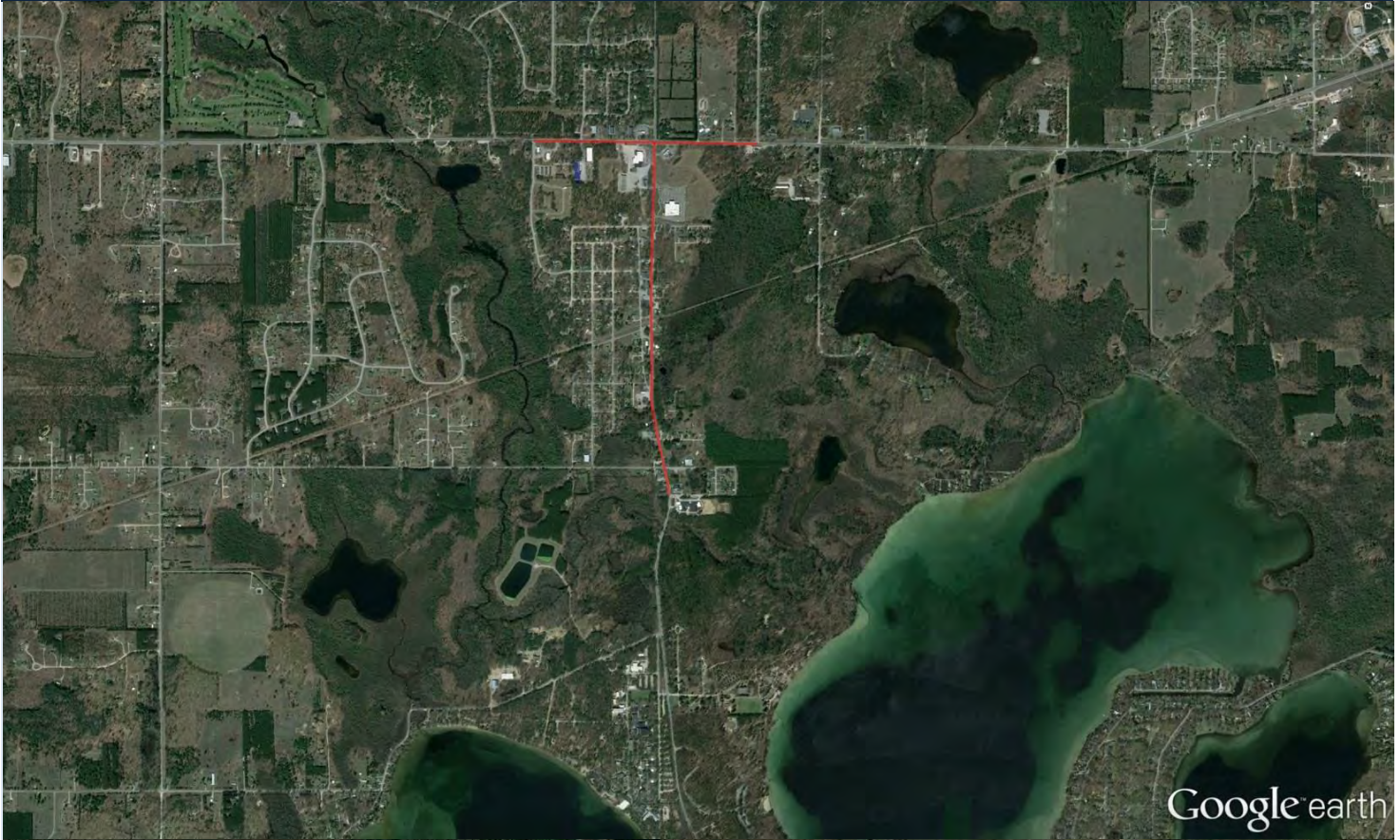
G&I Area

29.18 sq. miles

Core Place

1.24 sq. miles

Aerial Map with Commercial Corridors



1 Commercial Corridor Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	14,480	<i>2013 Data Year</i>
Population Density of Corridor (per acre)	0.8	<i>Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)</i>
Gross Neighborhood Density of Corridor (per acre)	1.8	
Job Density of Corridor (per acre)	0.3	
Worker Density of Corridor (per acre)	0.7	

Retail

Total Sales	\$19,108,487	Classification:	Retail Potential Exporter
Potential Sales	\$53,397,505		
Leakage	\$34,289,018	Seasonal Housing:	16.4% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Growing by 0.8%

Population

2000-2010: *Growing at 15.5% with the Core Place Growing at 30.4%*

Average Age: 38.3 [*+6.2% change from 2000 Census*]

Demographic Shifts: *Generation X had the largest % gain (up 26.4%); Silent Generation had the largest % loss (down -15.2%)*

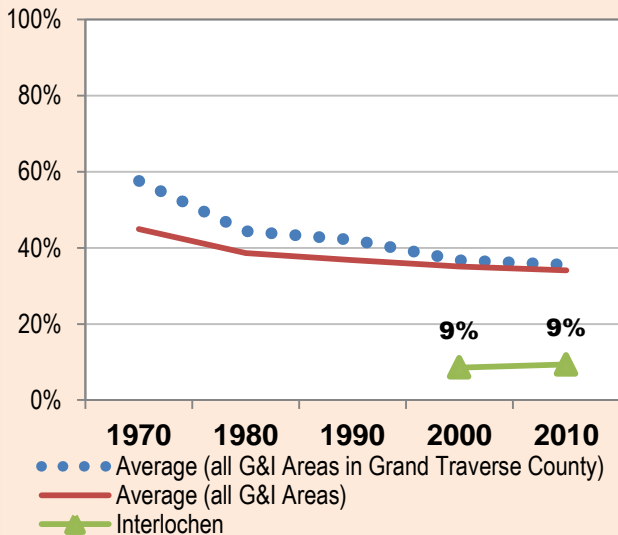
Jobshed

Worker Exporter – Resident Worker population exceeds the number of Jobs by 50%

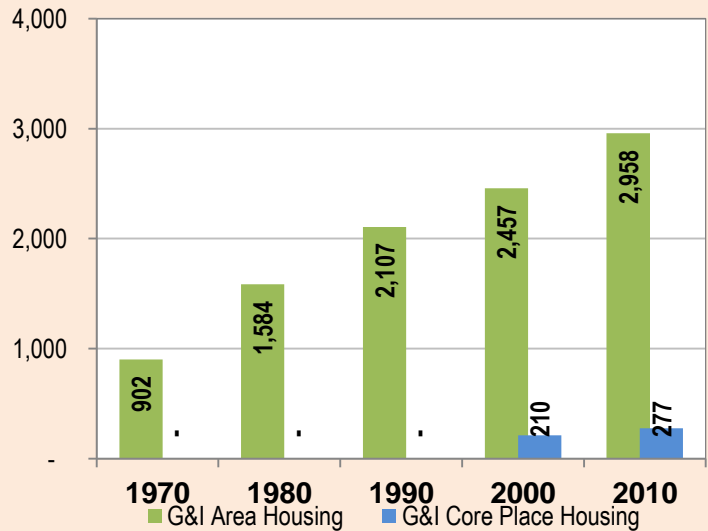
Population & Housing Trends

Census Data	Core Place	G&I Area
	Interlochen CDP	Green Lake Township
Total Population (2010)	583	5,784
Percentage Change from 2000	+30.4%	+15.5%
People per Acre	0.73	0.31
People per Square Mile	470	198
Average Age [% Change from 2000]	NA	38.3 [+6.2%]
Total Housing (2010)	277	2,958
Percentage Change from 2000	31.6%	20.4%
Gross Neighborhood Density (per acre)	0.35	0.16
Total Households (2010)	240	2,289
Percentage of Households without Children (under 18)	62%	63%
Study Area Size (Land Cover)		
Acres	793.60	18,675.20
Square Miles	1.24	29.18

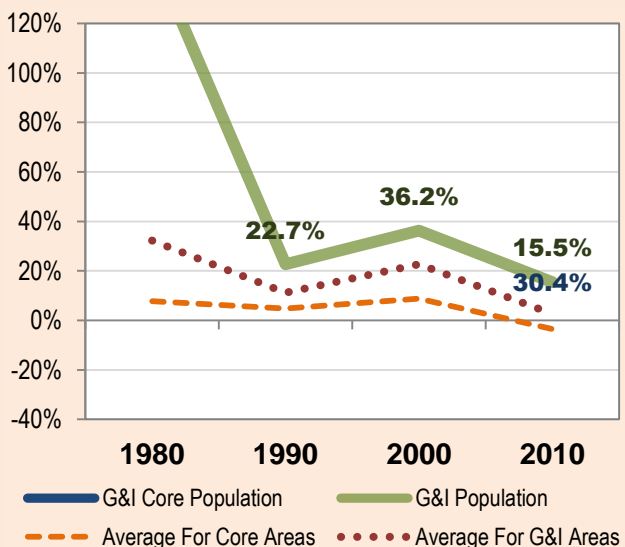
Housing in Core Place as a Percentage of Total Growth & Investment Area



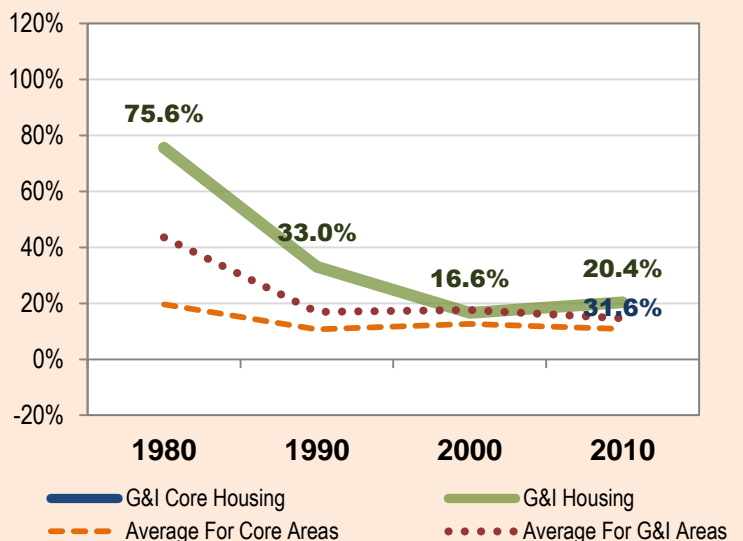
Housing Units in G&I Area and Core Place



Percentage Change in Population in G&I Area and Core Place



Percentage Change in Housing Units in G&I Area and Core Place



Growth & Investment Readiness Assessment

Criteria Status

		Criteria Status	
Initial Selection Criteria	1	Municipal Water	Yes
	2	Municipal Sewer	No
	3	Government Staff	Yes
	4	Master Plan Includes Higher Density Center	Yes
	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
Census Data	6	Core Place Population Increasing	Yes
	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
Zoning Policy	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	No
	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
	15	Building Height Limits Greater than 35 feet in Commercial Corridors	No
	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
Placemaking	18	4 Key Placemaking Elements in Corridors	No
	19	Retail Hub	No
	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
Opportunity	24	Community Identified Development Opportunities	Yes
	25	Marketing Redevelopment & Infill Sites	No
	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	Yes > 10,000
Infrastructure	26	Additional Water Capacity	No
	27	Additional Sewer Capacity	No
	28	Broadband Service over 1 Gbps Available	No
	29	Municipal WiFi	No

Commercial Corridors

ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
22	Green Lake Interlochen Gateway	9,444	1.8	0.8	0.3	0.7

Growth & Investment Core Place Map with Commercial Corridors



Housing Data

Census-ACS Data	Core Place	G&I Area
	Interlochen CDP	Green Lake Township

Housing Efficiency Rating (Average HERS)

Efficiency compared to 2012 DOE Challenge Home (30 HERS)

180	212
150% Less Efficient	182% Less Efficient

Percentage Built by Year

Before 1940	1%	2%
1940-1949	0%	3%
1950-1959	0%	10%
1960-1969	5%	6%
1970-1979	17%	15%
1980-1989	7%	10%
1990-1999	29%	32%
2000-2009	41%	21%
Later than 2010	0%	0%

Average Age	1993	1984
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Median Value

Green Lake Township	\$138,800	\$108,600	\$138,800
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Home Heating Fuel

Percent of Homes Natural Gas	72%	70%
Percent of Homes Using Propane	13%	12%
Percent of Homes Using Wood	0%	5%
Percent of Homes Using Solar Energy	0%	0%

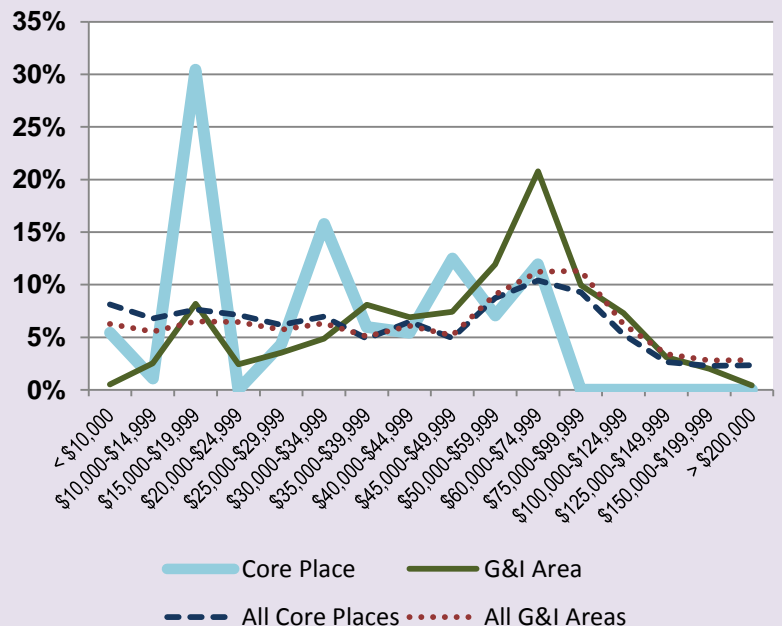
Personal Income

Census-ACS Data (2008-2012 5 Year Summary File)

Median Household Income (2012 Dollars)

Core Place	\$32,500
Interlochen CDP	\$32,500
G&I Area	\$55,021
Green Lake Township	\$55,021

Household Income Distribution



Per Capita Annual Income (2012 Dollars)

Core Place	\$19,263
G&I Area	\$20,844

Policy

Data Source: Commercial Corridor Inventory Interview	Core Place Units of Government Interviewed			
	Green Lake Township			
Year of Master Plan Approval	2010			
<i>Master Plan Update</i>	NA			
Community Economic Strategy	Yes			
<i>Economic Strategy Coordinates with Regional Strategy</i>	No			
Growth & Investment Strategy	Yes			
<i>Identify Areas of Focus for Growth & Investment Strategy</i>	Yes			
<i>Active G&I Strategy Development Discussions</i>	NA			
<i>Planning Zoning Benchmarks</i>	NA			
Development Opportunities on Corridor	Yes			
<i>Redevelopment Priorities Identified</i>	No			
<i>Redevelopment Resources Identified</i>	No			
<i>Market Potential Development Sites</i>	No			
Guides and Resources				
<i>Publish Development Guide</i>	No			
<i>Zoning Orientation Package Provided to Staff & Committees</i>	No			
<i>Zoning Training Funding</i>	Yes			
Community Marketing Strategy	No			
Area Plans				
<i>Downtown Plan</i>	Yes			
<i>Downtown Development Authority</i>	DDA Established 2007			
<i>Corridor Improvement Plan</i>	No			
<i>Corridor Improvement Authority</i>				

Zoning

Zoning Authority with Identified Commercial Corridors	Districts in Identified Commercial Corridors	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowed in Corridors
Green Lake Township	R-1 VR VC C	18	25%	25%	35 ft

Talent Jobshed

Census Data	Core Place	G&I Area
	Interlochen CDP	Green Lake Township
Workers Living within Study Area	235	2,574
Worker Density (per acre)	0.30	0.14
Worker's Earnings		
% with earnings \$1250/month or less	27%	25%
% with earnings \$1251/month to \$3333/month	47%	44%
% with earnings greater than \$3333/month	26%	32%
Jobs Located in Area	127	1,298
Job Density (per acre)	0.16	0.07

Commute Data for Workers Employed in Core Place

Commuting data for workers residing from 2 - 175 miles from G&I Area

Commuting Workers	119	20% Commuting 5 Miles or Less
Total Daily One Way Commute for all Commuters		
Route Distance (Miles)	2,415	
Commute Time (Minutes)	3,131	
Total Annual Commute for all Commuters		
Distance (Miles)	1,267,986	
Time (Hours)	27,398	
Annual Commuting Costs		
Total Fuel Cost	192,954	
Total Cost (IRS 2014 Standard Mileage Rate)	\$710,072	
Average Per Worker Commute	Daily (2-Way)	Annual
Distance (Miles)	41	10,655
Time (Hours)	0.9	230
Cost (IRS Standard Mileage Rate)	\$23	\$5,967

Retail Activity

	Core Place Activity	G&I Area Activity	County Activity
Total Retail Sales	\$2,711,331	\$19,108,487	\$1,174,416,760
Total Potential Retail Sales	\$5,459,286	\$53,397,505	\$874,196,195
Leakage	\$2,747,955	\$34,289,018	(\$300,220,565)

Classification: **Retail Potential Exporter**

Residents of the Interlochen Growth & Investment Area are making 64% of their purchases at businesses located outside the area.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$1,996,388	\$6,619,932	30%
Health/Personal Care Stores	\$0	\$4,272,947	0%
Clothing & Accessories Stores	\$35,769	\$2,558,864	1%
Sport/Hobby/Book/Music Stores	\$0	\$1,254,472	0%
General Merchandise Stores	\$0	\$11,116,194	0%
Food & Beverage Establishments	\$281,169	\$4,858,462	6%
E-Shopping/Mail-Order	\$0	\$2,676,688	0%

Corridor Street Name(s): M137 from US31 to 11th Street; US31 from Griner Parkway to White Oak Lane

Corridor Classification: Central Business District

Unit(s) of Government: Green Lake Township

Length: 1.79 miles

Street Classification: Major Collector, Principal Arterial - Other

2013 Traffic Volume(AADT): 14,480 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

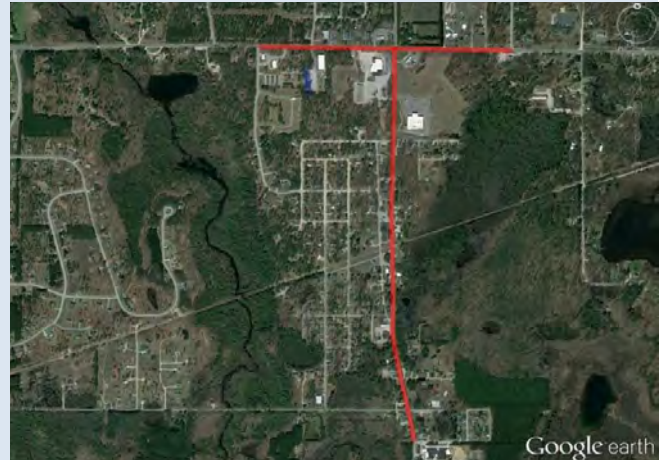
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: None

Walk Score: 15



Corridor Overview

The Interlochen Gateway Commercial area (the intersection of US 31 and M 137) is planned to provide a mix of commercial and office uses serving the needs of Township and area residents, to enhance and not compete with the Village Commercial area along the southern portion of the corridor. The site design for this area should be carefully planned to promote easy pedestrian and vehicle access to the village area while providing a logical transition from the highway. The Village Commercial district is planned along the frontage of M-137 within the platted Village area. The Village Commercial area provides a mix of commercial and office uses serving the needs of the year round resident population, seasonal visitors and tourists.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Green Lake Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Green Lake Interlochen Gateway	Interlochen CDP	Interlochen
Total Population (2010)	1,230	583	5,784
People per Acre	1.82	0.73	0.31
People per Square Mile	1,162	470	198
Total Housing (2010)	541	277	2,958
Gross Neighborhood Density (per acre)	0.80	0.35	0.16
Study Area Size (Land Cover)			
Acres	677.39	793.60	18,675.20
Square Miles	1.06	1.24	29.18
Workers Living within Study Area	475	235	2,574
% with earnings \$1250/month or less	25%	27%	25%
% with earnings \$1251/month to \$3333/month	45%	47%	44%
% with earnings greater than \$3333/month	30%	26%	32%
Jobs Located within Study Area	171	127	1,298
Job Density (per acre)	0.25	0.16	0.07

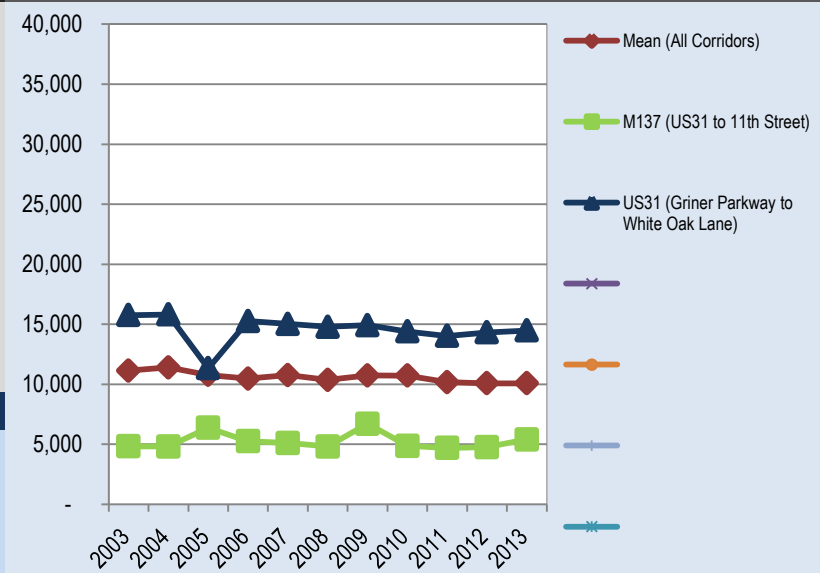
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1 VR VC C	75%	25%	25%	1.0	18.2	35 ft

Infrastructure

Public Utilities		
Sewer	No	N/A
Water	Limited	Limited Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies <i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	No

Growth & Investment Area Unit(s) of Government:

Village of Kingsley, Paradise Township

Core Place Census Areas:

Village of Kingsley

County

Grand Traverse

Census Class

Rural

Land Area

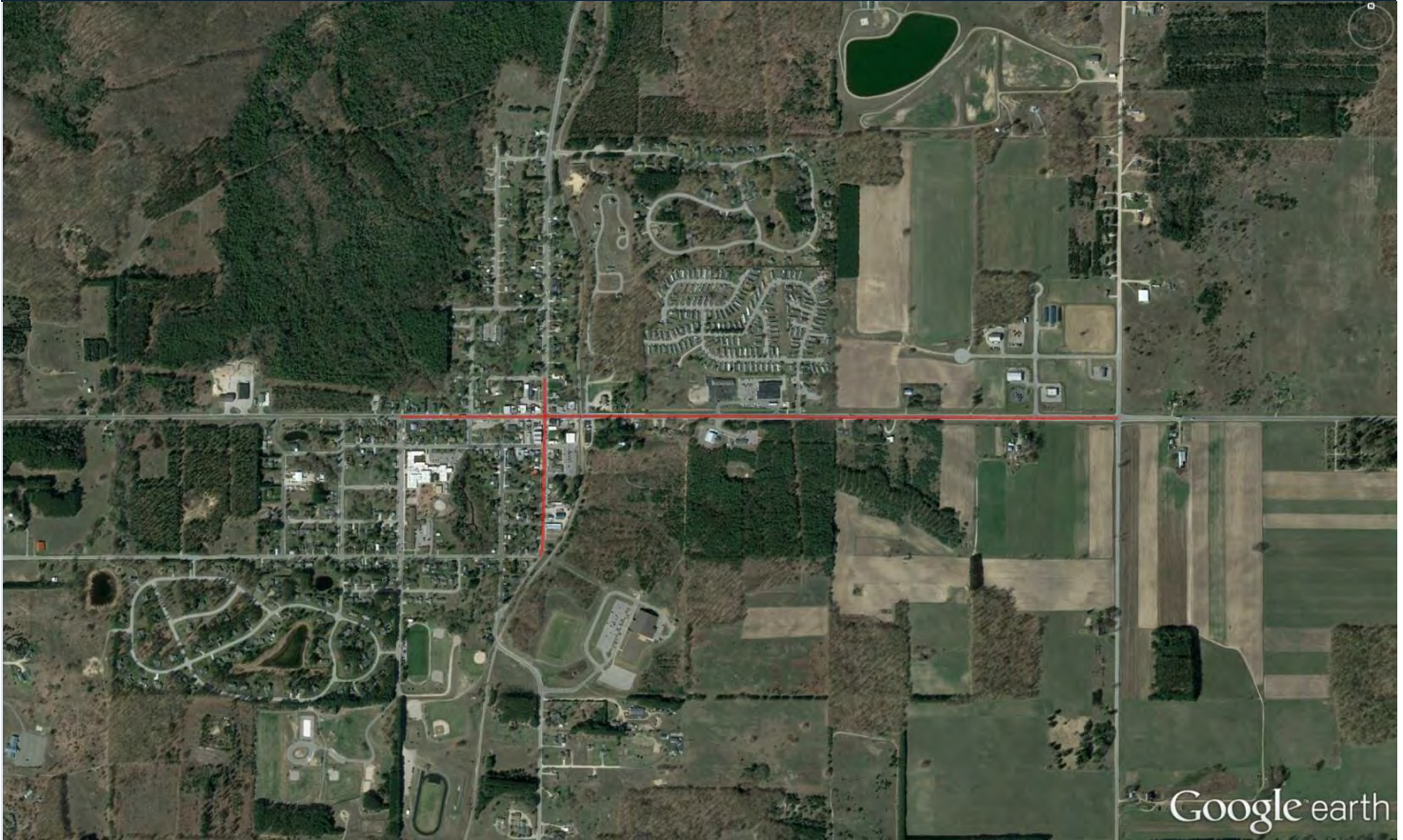
G&I Area

52.87 sq. miles

Core Place

1.42 sq. miles

Aerial Map with Commercial Corridors



2 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	7,686	<i>2013 Data Year</i>
Population Density Range of G&I Area Corridors (per acre)	1.2 - 1.5	<i>Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)</i>
Gross Neighborhood Density Range of G&I Area Corridors (per acre)	3.2 - 4.0	
Job Density Range of G&I Area Corridors (per acre)	0.3 - 0.3	
Worker Density Range of G&I Area Corridors (per acre)	1.0 - 1.3	

Retail

Total Sales	\$8,238,207	Classification:	Retail Potential Exporter
Potential Sales	\$38,080,625		
Leakage	\$29,842,418	Seasonal Housing:	3.0% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Declining by -3.8%

Population

2000-2010: *Growing at 12.5% with the Core Place Growing at 0.7%*

Average Age: 35.2 [*+11.5% change from 2000 Census*]

Demographic Shifts: *Generation X had the largest % gain (up 12.6%); Silent Generation had the largest % loss (down -13.9%)*

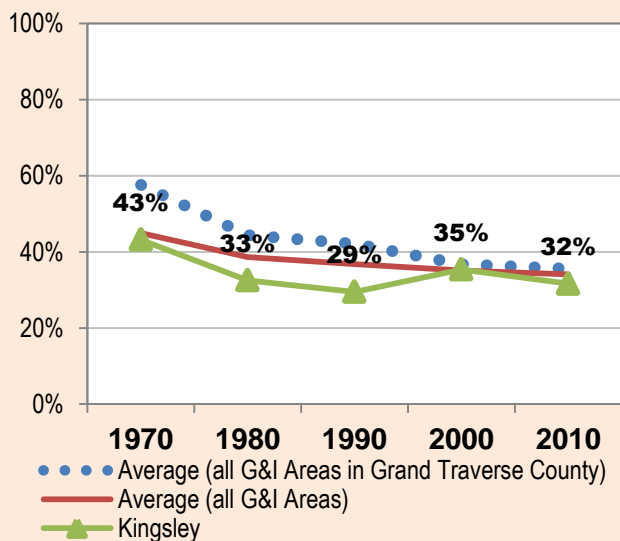
Jobshed

Worker Exporter – Resident Worker population exceeds the number of Jobs by 39%

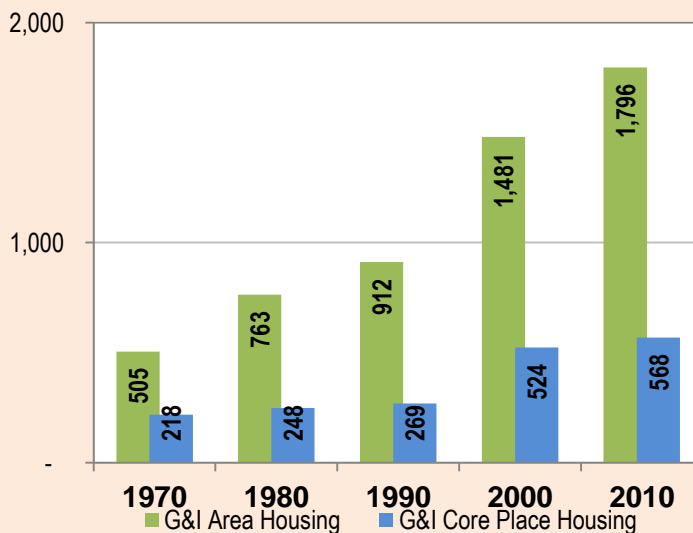
Population & Housing Trends

Census Data	Core Place	G&I Area
	Village of Kingsley	Village of Kingsley, Paradise Township
Total Population (2010)	1,480	4,713
Percentage Change from 2000	+0.7%	+12.5%
People per Acre	1.63	0.14
People per Square Mile	1,042	89
Average Age [% Change from 2000]	33.6 [+10.9%]	35.2 [+11.5%]
Total Housing (2010)	568	1,796
Percentage Change from 2000	8.4%	21.3%
Gross Neighborhood Density (per acre)	0.63	0.05
Total Households (2010)	519	1,624
Percentage of Households without Children (under 18)	51%	56%
Study Area Size (Land Cover)		
Acres	908.80	33,836.80
Square Miles	1.42	52.87

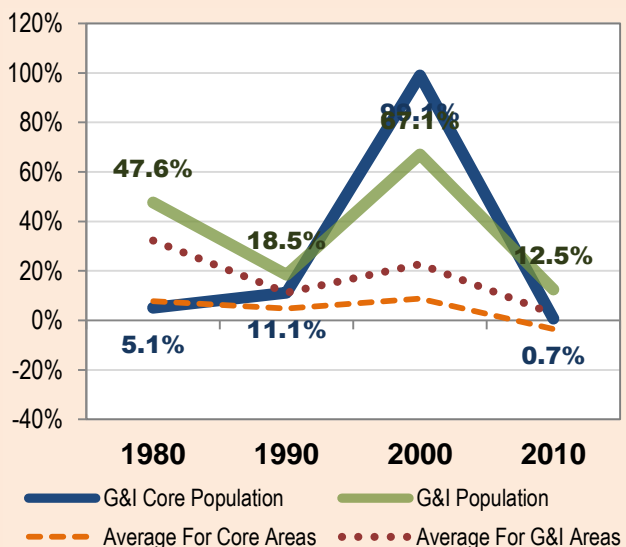
Housing in Core Place as a Percentage of Total Growth & Investment Area



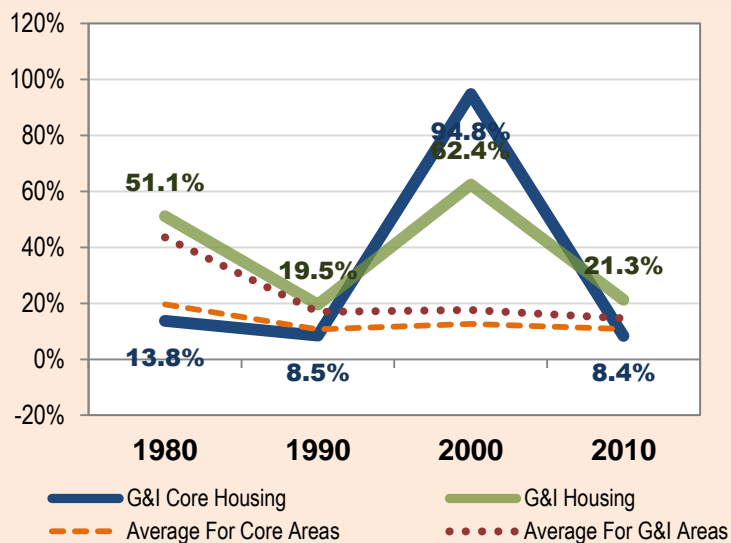
Housing Units in G&I Area and Core Place



Percentage Change in Population in G&I Area and Core Place



Percentage Change in Housing Units in G&I Area and Core Place



Growth & Investment Readiness Assessment

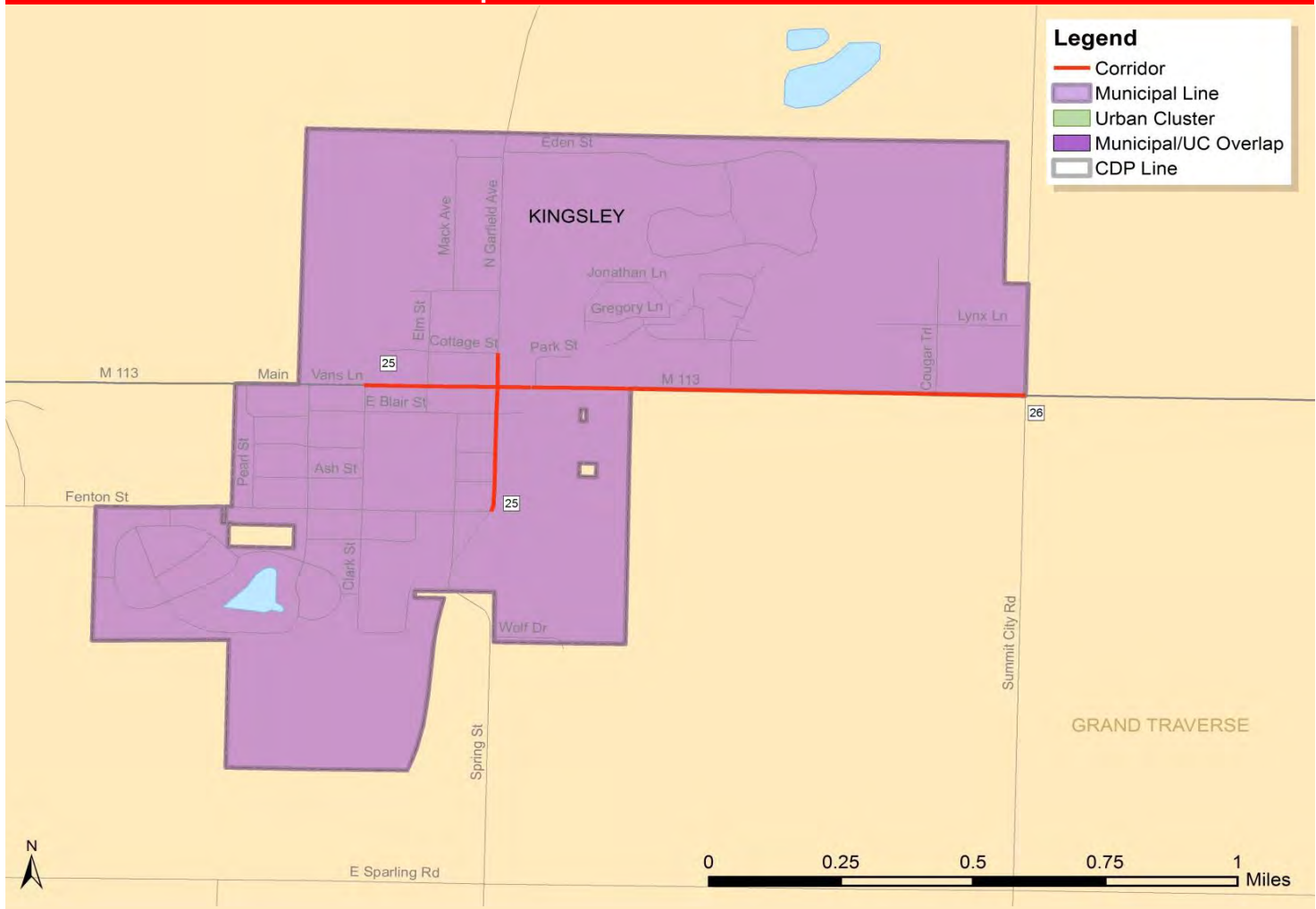
Criteria Status

		Criteria Status	
Initial Selection Criteria	1	Municipal Water	Yes
	2	Municipal Sewer	Yes
	3	Government Staff	Yes
	4	Master Plan Includes Higher Density Center	Yes
	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
Census Data	6	Core Place Population Increasing	Yes
	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
Zoning Policy	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
Placemaking	18	4 Key Placemaking Elements in Corridors	No
	19	Retail Hub	No
	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
Opportunity	24	Community Identified Development Opportunities	Yes
	25	Marketing Redevelopment & Infill Sites	Yes
	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
Infrastructure	26	Additional Water Capacity	Yes
	27	Additional Sewer Capacity	Yes
	28	Broadband Service over 1 Gbps Available	No
	29	Municipal WiFi	No

Commercial Corridors

ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
25	Kingsley Downtown CBD	3,367	4.0	1.5	0.3	1.3
26	Kingsley M113 Corridor	4,939	3.2	1.2	0.3	1.0

Growth & Investment Core Place Map with Commercial Corridors



Housing Data

Census-ACS Data	Core Place	G&I Area
	Village of Kingsley	Village of Kingsley, Paradise Township

Housing Efficiency Rating (Average HERS)

Efficiency compared to 2012 DOE Challenge Home (30 HERS)

217
187% Less Efficient

211
181% Less Efficient

Percentage Built by Year

Before 1940	10%	9%
1940-1949	4%	3%
1950-1959	9%	3%
1960-1969	7%	4%
1970-1979	7%	13%
1980-1989	5%	14%
1990-1999	37%	32%
2000-2009	21%	22%
Later than 2010	0%	0%

Average Age **1980** **1982**

Median Value

\$130,600 **\$155,000**

Village of Kingsley	\$130,600
Paradise Township	\$155,000

Home Heating Fuel

Percent of Homes Natural Gas	86%	32%
Percent of Homes Using Propane	5%	39%
Percent of Homes Using Wood	4%	16%
Percent of Homes Using Solar Energy	0%	0%

Personal Income

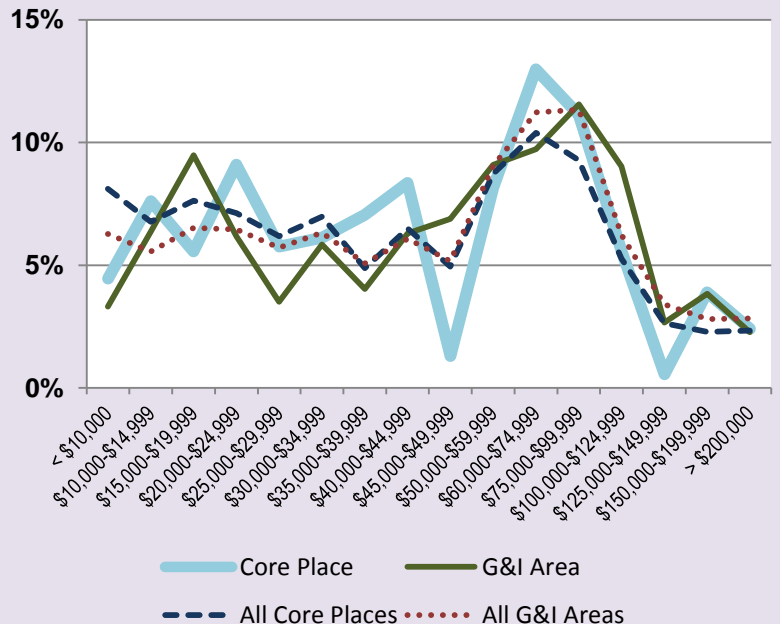
Census-ACS Data (2008-2012 5 Year Summary File)

Median Household Income (2012 Dollars)

Core Place **\$42,933**
Village of Kingsley \$42,933

G&I Area **\$47,964**
Village of Kingsley \$42,933
Paradise Township \$47,964

Household Income Distribution



Per Capita Annual Income (2012 Dollars)

Core Place **\$20,059**
G&I Area **\$20,037**

Policy

Data Source: Commercial Corridor Inventory Interview	Core Place Units of Government Interviewed			
	Village of Kingsley			

Year of Master Plan Approval **2007**
Master Plan Update NA

Community Economic Strategy **Yes**
Economic Strategy Coordinates with Regional Strategy Yes

Growth & Investment Strategy **Yes**
Identify Areas of Focus for Growth & Investment Strategy Yes
Active G&I Strategy Development Discussions NA
Planning Zoning Benchmarks NA

Development Opportunities on Corridor **Yes**
Redevelopment Priorities Identified Yes
Redevelopment Resources Identified Yes
Market Potential Development Sites Yes

Guides and Resources
Publish Development Guide Yes
Zoning Orientation Package Provided to Staff & Committees Yes
Zoning Training Funding Yes

Community Marketing Strategy **Yes**

Area Plans
Downtown Plan **Yes**
Downtown Development Authority DDA Established 2005
Corridor Improvement Plan **No**
Corridor Improvement Authority

Zoning

Zoning Authority with Identified Commercial Corridors	Districts in Identified Commercial Corridors	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowed in Corridors
Village of Kingsley	R-1 VR F/P/RD C-1 C-2 I	40	17%	17%	55 ft

Talent Jobshed

Census Data	Core Place	G&I Area
	Village of Kingsley	Village of Kingsley, Paradise Township
Workers Living within Study Area	483	1,498
Worker Density (per acre)	0.53	0.04
Worker's Earnings		
% with earnings \$1250/month or less	26%	27%
% with earnings \$1251/month to \$3333/month	42%	39%
% with earnings greater than \$3333/month	32%	34%
Jobs Located in Area	96	921
Job Density (per acre)	0.11	0.03

Commute Data for Workers Employed in Core Place

Commuting data for workers residing from 2 - 175 miles from G&I Area

Commuting Workers	91	8% Commuting 5 Miles or Less
Total Daily One Way Commute for all Commuters		
Route Distance (Miles)	3,134	
Commute Time (Minutes)	3,524	
Total Annual Commute for all Commuters		
Distance (Miles)	1,645,461	
Time (Hours)	30,833	
Annual Commuting Costs		
Total Fuel Cost	250,396	
Total Cost (IRS 2014 Standard Mileage Rate)	\$921,458	
Average Per Worker Commute	Daily (2-Way)	Annual
Distance (Miles)	69	18,082
Time (Hours)	1.3	339
Cost (IRS Standard Mileage Rate)	\$39	\$10,126

Retail Activity

	Core Place Activity	G&I Area Activity	County Activity
Total Retail Sales	\$1,449,068	\$8,238,207	\$1,174,416,760
Total Potential Retail Sales	\$12,112,316	\$38,080,625	\$874,196,195
Leakage	\$10,663,248	\$29,842,418	(\$300,220,565)

Classification: *Retail Potential Exporter*

Residents of the Kingsley Growth & Investment Area are making 78% of their purchases at businesses located outside the area.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$0	\$4,688,953	0%
Health/Personal Care Stores	\$727,059	\$2,975,457	24%
Clothing & Accessories Stores	\$0	\$1,887,699	0%
Sport/Hobby/Book/Music Stores	\$0	\$893,463	0%
General Merchandise Stores	\$421,715	\$7,936,921	5%
Food & Beverage Establishments	\$131,663	\$3,571,415	4%
E-Shopping/Mail-Order	\$0	\$1,885,411	0%

Corridor Street Name(s): Brownson Avenue from Cottage Street to Fenton Street; Main Street (M113) from Clark Street to Kingsley Ridge Drive

Corridor Classification: Central Business District

Unit(s) of Government: Village of Kingsley

Length: 0.64 miles

Street Classification: Major Collector, Minor Arterial

2013 Traffic Volume(AADT): 7,686 Source: N/A, MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: Parallel

Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks, Mid-Block Crosswalks

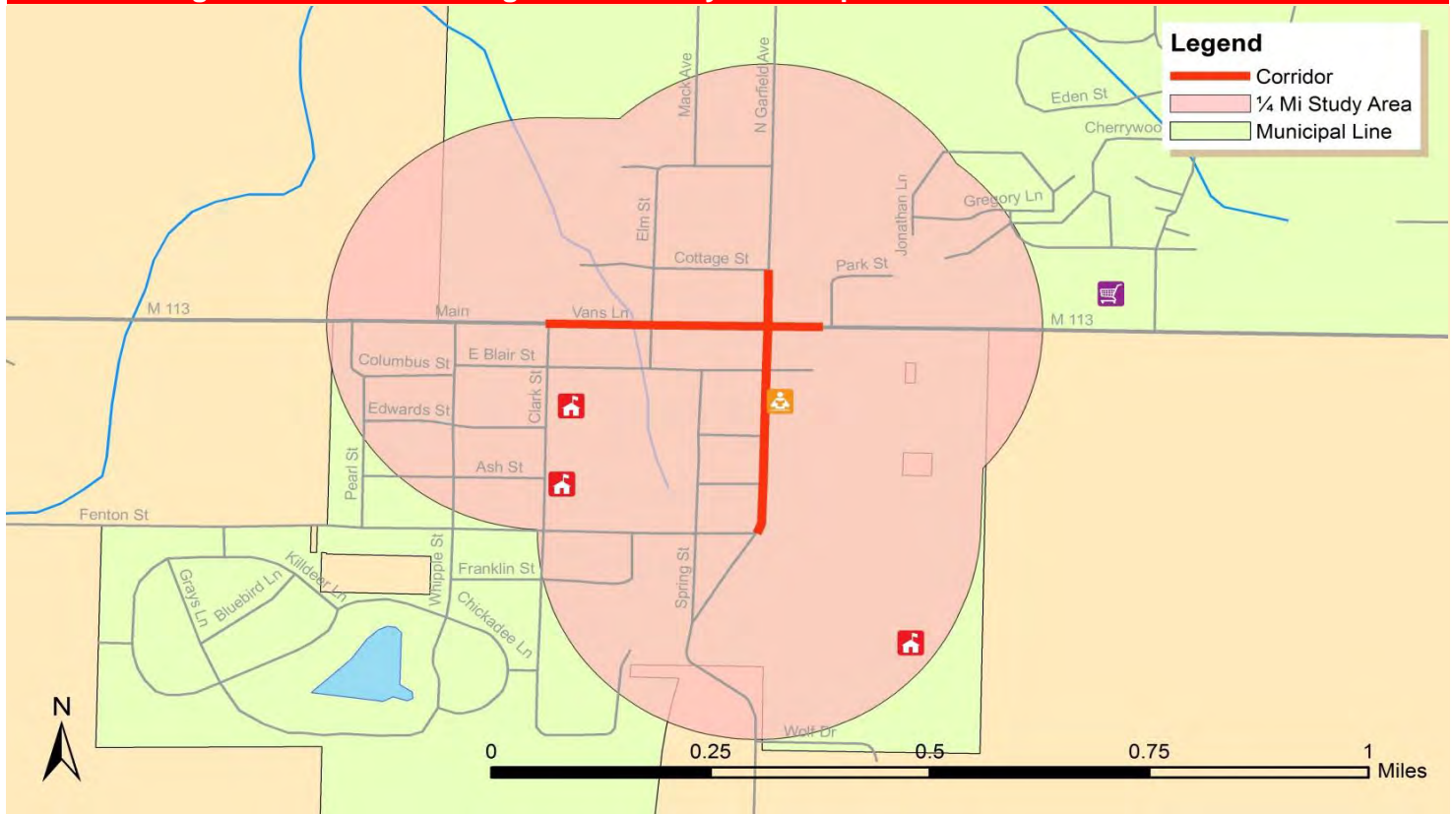
Walk Score: 63



Corridor Overview

The Village of Kingsley’s goal for this corridor is to promote an active, vibrant commercial downtown by accommodating small businesses primarily serving adjacent neighborhoods with day-to-day retail goods and services. The desired development pattern is one that mimics an historical downtown.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Village of Kingsley)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Kingsley Downtown CBD	Village of Kingsley	Kingsley
Total Population (2010)	1,204	1,480	4,713
People per Acre	3.96	1.63	0.14
People per Square Mile	2,534	1,042	89
Total Housing (2010)	467	568	1,796
Gross Neighborhood Density (per acre)	1.54	0.63	0.05
Study Area Size (Land Cover)			
Acres	304.06	908.80	33,836.80
Square Miles	0.48	1.42	52.87
Workers Living within Study Area	394	483	1,498
% with earnings \$1250/month or less	26%	26%	27%
% with earnings \$1251/month to \$3333/month	43%	42%	39%
% with earnings greater than \$3333/month	31%	32%	34%
Jobs Located within Study Area	96	96	921
Job Density (per acre)	0.32	0.11	0.03

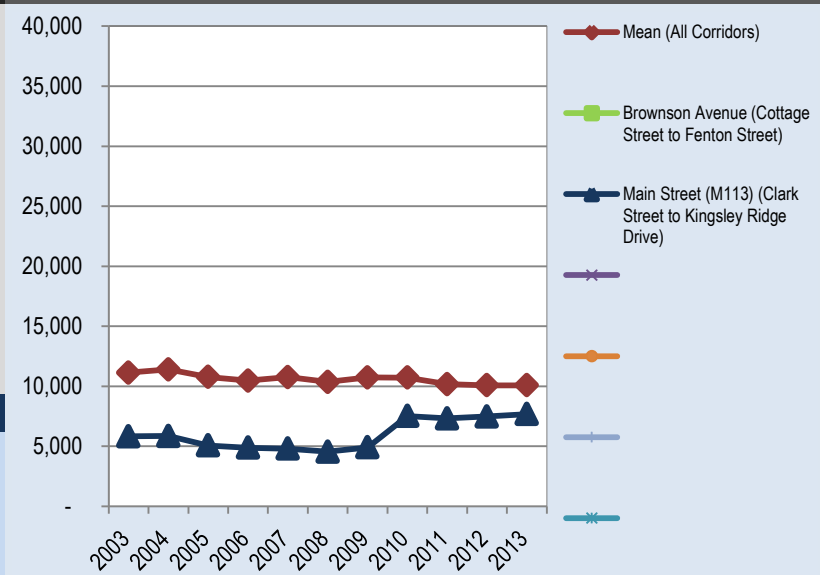
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
VR F/P/RD C-1	67%	33%	33%	7.3	40.4	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies	
<i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>		

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Kingsley Public Library</i>		Public Art Installations	Yes
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): M113 from Kingsley Ridge Drive to Summit City Road

Corridor Classification: Commercial/Industrial

Unit(s) of Government: Village of Kingsley

Length: 0.94 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 7,686 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: Parallel

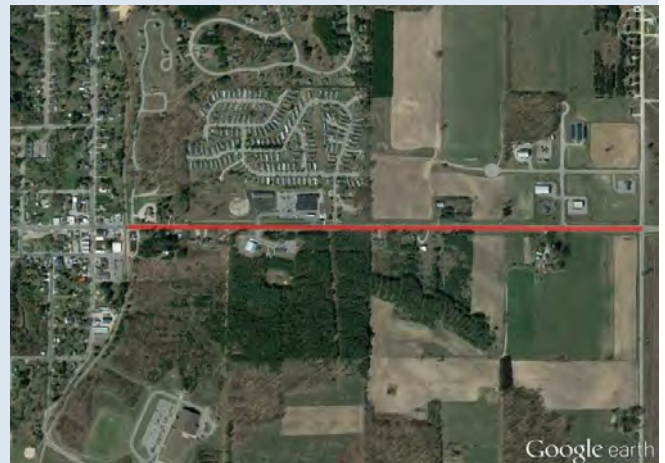
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks

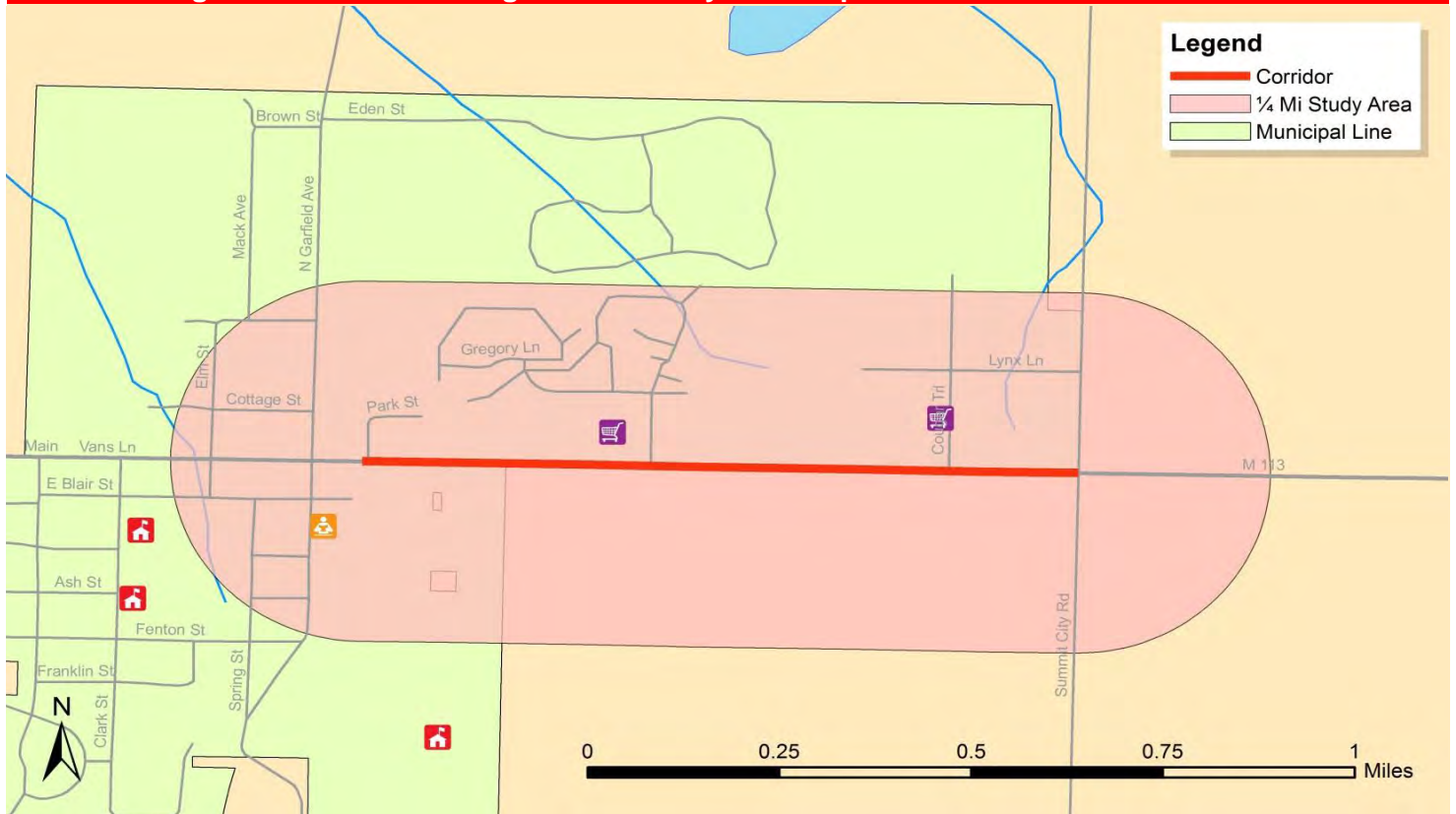
Walk Score: 43



Corridor Overview

This Corridor provide areas exclusive of residential use and primarily dedicated to a wide variety of commercial business, professional and other services commonly associated with commercial truck movements, of the nuisance of smoke, dust, fumes, gas, heat, glare, noise, and/or vibration.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Village of Kingsley)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Kingsley M113 Corridor	Village of Kingsley	Kingsley
Total Population (2010)	1,347	1,480	4,713
People per Acre	3.18	1.63	0.14
People per Square Mile	2,036	1,042	89
Total Housing (2010)	498	568	1,796
Gross Neighborhood Density (per acre)	1.18	0.63	0.05
Study Area Size (Land Cover)			
Acres	423.35	908.80	33,836.80
Square Miles	0.66	1.42	52.87
Workers Living within Study Area	442	483	1,498
% with earnings \$1250/month or less	28%	26%	27%
% with earnings \$1251/month to \$3333/month	40%	42%	39%
% with earnings greater than \$3333/month	32%	32%	34%
Jobs Located within Study Area	138	96	921
Job Density (per acre)	0.33	0.11	0.03

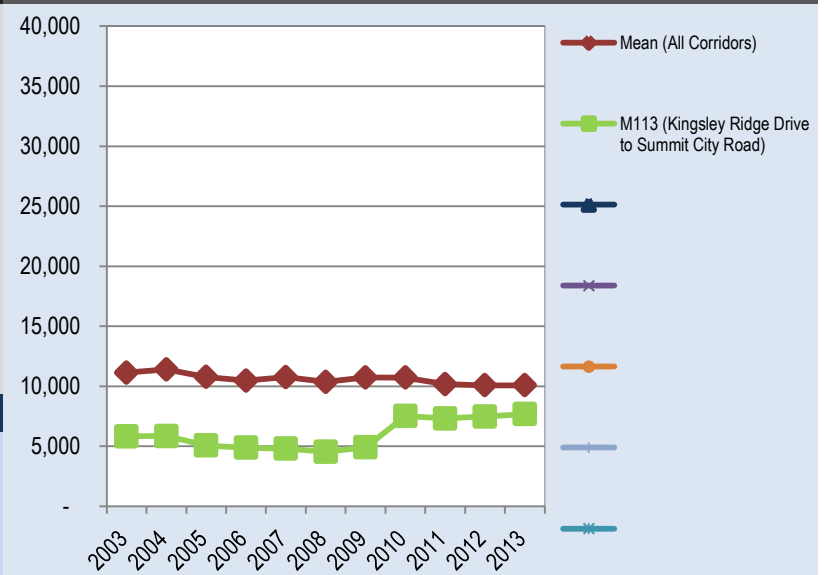
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1 C-1 C-2 I	50%	25%	25%	4.4	40.4	55 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	No
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Growth & Investment Area Unit(s) of Government:

City of Traverse City, East Bay Charter Township, Charter Township of Garfield, Elmwood Charter Township, Acme Township, Blair Township, Long Lake Township, Peninsula Township

Core Place Census Areas:

City of Traverse City, East Bay Charter Township, Charter Township of Garfield, Greilickville CDP

Counties

Grand Traverse & Leelanau

Census Class

Urban Cluster

Land Area

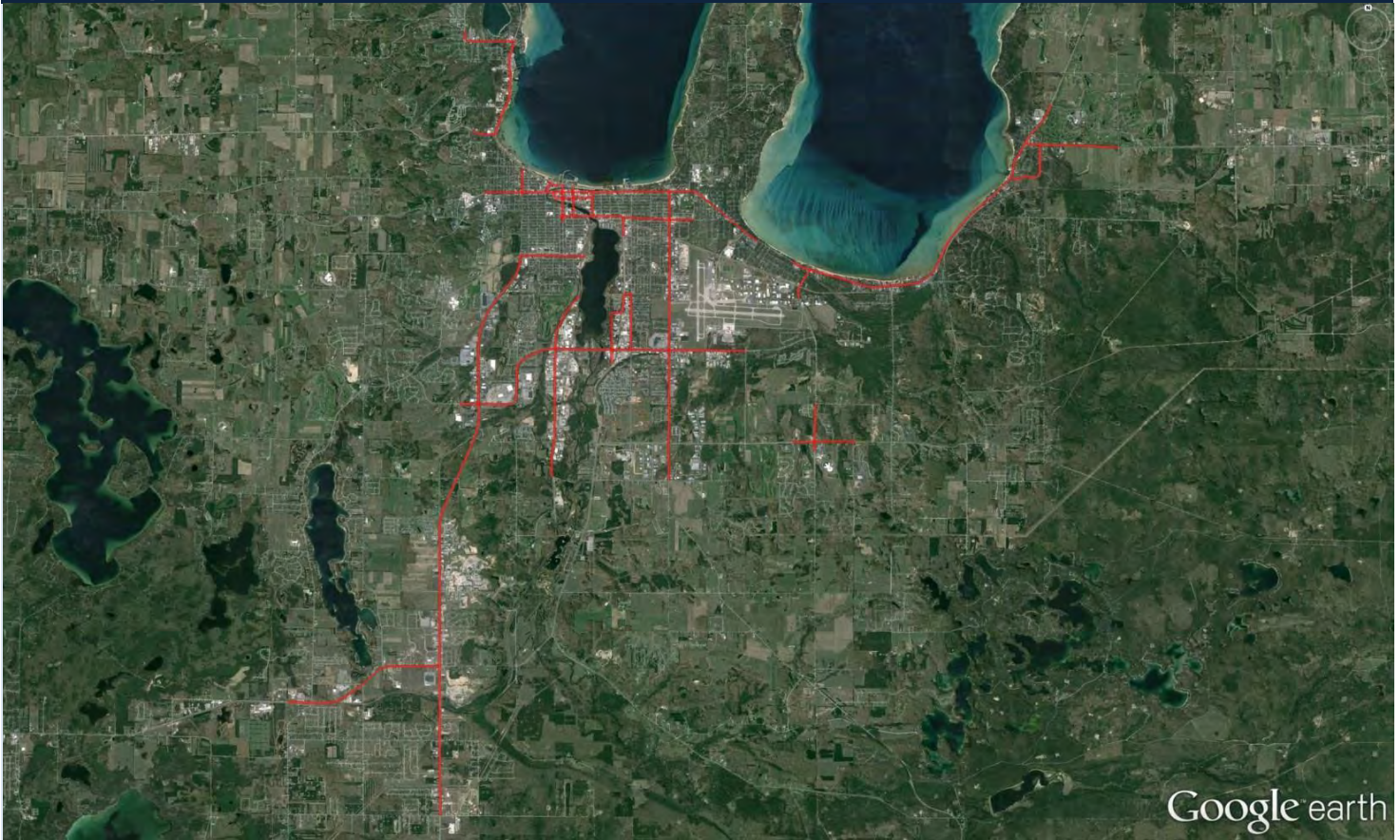
G&I Area

197.78 sq. miles

Core Place

79.37 sq. miles

Aerial Map with Commercial Corridors



24 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	34,178	<i>2013 Data Year</i>
Population Density Range of G&I Area Corridors (per acre)	0.6 - 4.6	<i>Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)</i>
Gross Neighborhood Density Range of G&I Area Corridors (per acre)	1.5 - 8.6	
Job Density Range of G&I Area Corridors (per acre)	0.3 - 25.0	
Worker Density Range of G&I Area Corridors (per acre)	0.6 - 4.5	

Retail

Total Sales	\$1,143,674,558	Classification:	Regional Retail Hub
Potential Sales	\$741,795,009	Seasonal Housing:	7.3% of G&I Area Housing
Leakage	(\$401,879,549)		

Sprawl

Percentage of Housing in the Core Place is Growing by 0.2%

Population

2000-2010: *Growing at 10.1% with the Core Place Growing at 8.6%*
Average Age: 41.1 [*+7.9% change from 2000 Census*]
Demographic Shifts: *Generation X had the largest % gain (up 9.9%); Silent Generation had the largest % loss (down -5.5%)*

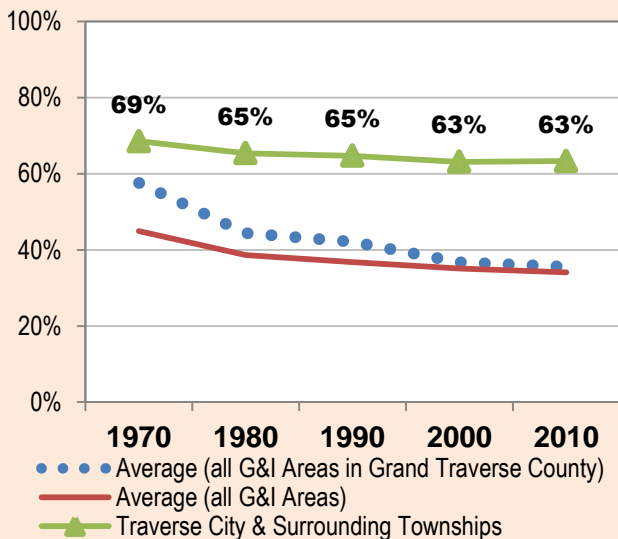
Jobshed

Worker Importer – Number of Jobs exceeds Resident Worker population by 51%

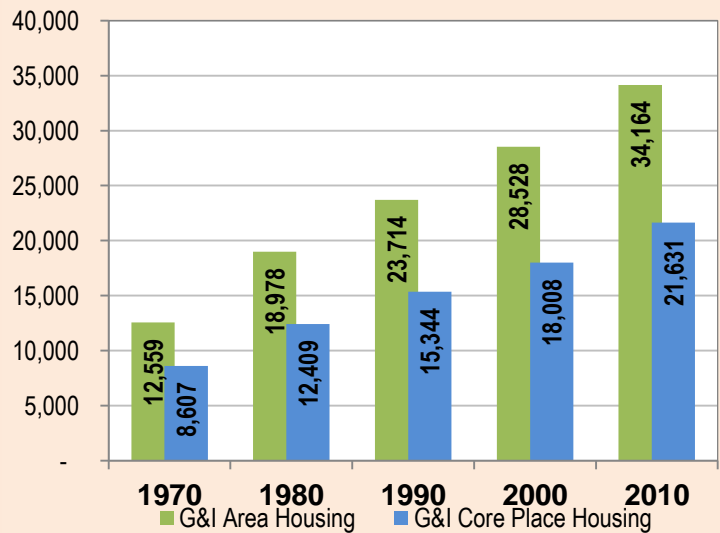
Population & Housing Trends

Census Data	Core Place	G&I Area
	City of Traverse City, Garfield, East Bay, Greilickville CDP	City of Traverse City, Greilickville CDP, Garfield Township, East Bay Township, Acme Township, Blair Township
Total Population (2010)	43,123	69,802
Percentage Change from 2000	+8.6%	+10.1%
People per Acre	0.85	0.55
People per Square Mile	543	353
Average Age [% Change from 2000]	41.8 [+6.6%]	41.1 [+7.9%]
Total Housing (2010)	21,631	34,164
Percentage Change from 2000	20.1%	19.8%
Gross Neighborhood Density (per acre)	0.43	0.27
Total Households (2010)	19,071	29,475
Percentage of Households without Children (under 18)	71%	69%
Study Area Size (Land Cover)		
Acres	50,796.80	126,579.20
Square Miles	79.37	197.78

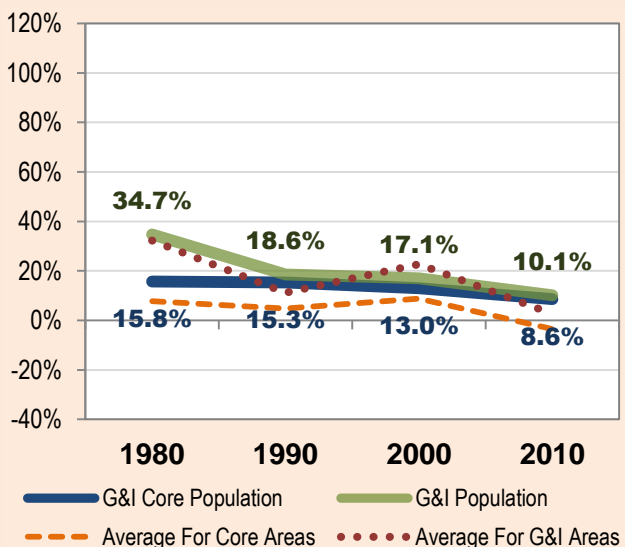
Housing in Core Place as a Percentage of Total Growth & Investment Area



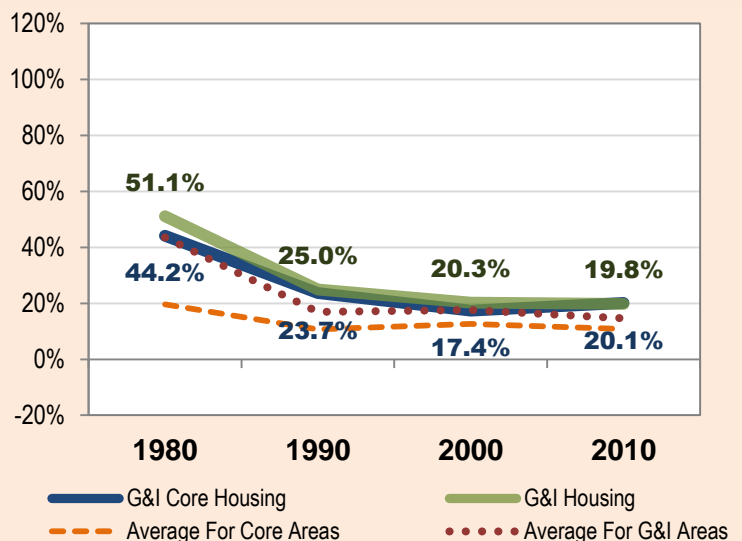
Housing Units in G&I Area and Core Place



Percentage Change in Population in G&I Area and Core Place



Percentage Change in Housing Units in G&I Area and Core Place



Growth & Investment Readiness Assessment

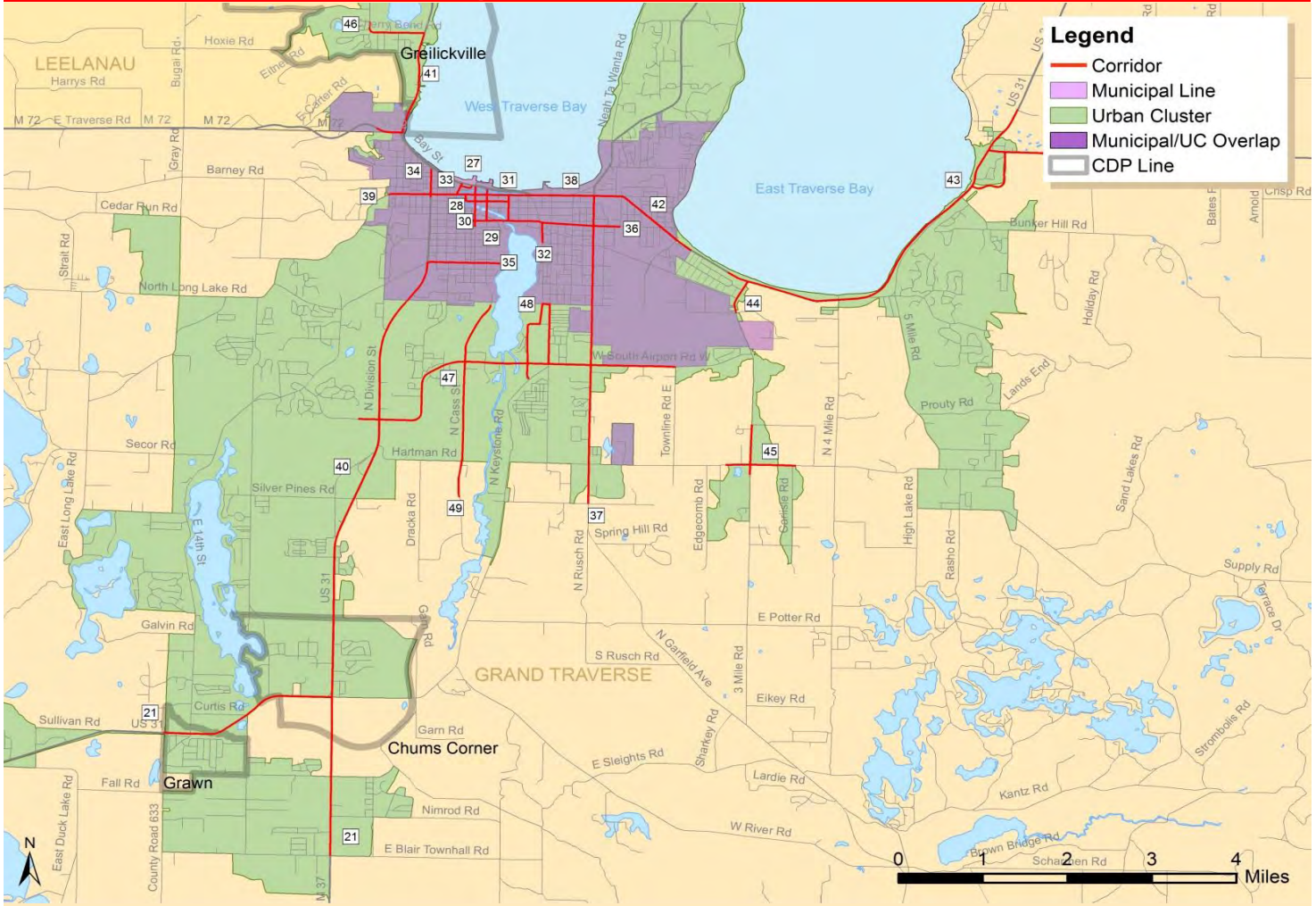
Criteria Status

		Criteria Status	
Initial Selection Criteria	1	Municipal Water	Yes
	2	Municipal Sewer	Yes
	3	Government Staff	Yes
	4	Master Plan Includes Higher Density Center	Yes
	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
Census Data	6	Core Place Population Increasing	Yes
	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Urban Cluster
	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
Zoning Policy	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
	16	No On Site Parking Requirement in Central Business District	Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	Yes
Placemaking	18	4 Key Placemaking Elements in Corridors	Yes
	19	Retail Hub	Yes - Regional
	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	Yes
	21	Contain Medical Centers	Yes
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
Opportunity	24	Community Identified Development Opportunities	Yes
	25	Marketing Redevelopment & Infill Sites	Yes
	22	Fixed Route Transit (Headways 15 mins or less)	Yes
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	Yes > 25,000
Infrastructure	26	Additional Water Capacity	Yes
	27	Additional Sewer Capacity	Yes
	28	Broadband Service over 1 Gbps Available	Limited
	29	Municipal WiFi	Yes

Commercial Corridors

ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
27	Traverse City CBD Union Street Corridor	2,730	7.9	4.0	14.5	4.5
28	Traverse City CBD Front/State Street Corridor	7,061	6.6	3.8	14.4	3.5
29	Traverse City CBD Cass Street Corridor	2,123	6.8	3.8	17.1	2.5
30	Traverse City CBD Eighth Street Corridor	5,024	8.6	4.6	8.7	4.1
31	Traverse City CBD Boardman Ave. Corridor	1,724	7.2	3.9	9.6	2.6
32	Traverse City CBD Woodmere Ave Corridor	1,360	7.6	3.8	2.0	2.5
33	Traverse City CBD Warehouse District	1,618	4.8	2.8	21.7	4.1
34	Traverse City Division Street Neighborhood Commercial Co	1,901	7.8	3.9	5.5	3.7
35	Traverse City 14th Street Corridor	4,551	7.7	4.1	2.1	3.3
36	Traverse City 8th Street Corridor	4,350	5.9	3.1	3.9	1.9
37	Traverse City Garfield Avenue Corridor	20,592	3.7	1.9	4.0	1.3
38	Traverse City East Front Street	6,452	6.5	3.1	5.5	2.1
39	Traverse City West Front Street	4,506	6.2	3.2	25.0	3.4
40	Traverse City US 31 Corridor	25,079	2.7	1.4	2.9	1.1
41	Traverse City M22/M72 Corridor	8,570	3.2	1.6	2.6	2.3
42	Traverse City Munson Ave Corridor	5,364	4.8	2.4	3.6	1.6
21	Blair Chums Corner/Grawn Corridor	27,243	2.0	0.8	0.3	0.7
43	Acme US31/M72 Acme Shores Corridor	26,154	1.9	1.2	0.7	0.7
44	East Bay Miracle Mile Corridor	12,090	2.5	1.5	4.8	1.0
45	East Bay 3 Mile & Hammond Corridor	7,795	1.5	0.6	0.4	0.6
46	Elmwood Cherry Bend Corridor	4,050	3.7	2.0	1.0	1.2
47	Garfield South Airport Corridor	22,685	2.9	1.5	5.3	0.9
48	Garfield Barlow Park Corridor	10,199	7.6	4.2	3.6	2.9
49	Garfield Cass Road Corridor	13,355	1.7	1.0	4.9	0.6

Growth & Investment Core Place Map with Commercial Corridors



Housing Data

Census-ACS Data

Core Place

City of Traverse City, Garfield, East Bay, Greilickville CDP

G&I Area

City of Traverse City, Greilickville CDP, Garfield Township, East Bay Township, Acme Township, Blair Township

Housing Efficiency Rating (Average HERS)

Efficiency compared to 2012 DOE Challenge Home (30 HERS)

246

216% Less Efficient

238

208% Less Efficient

Percentage Built by Year

Before 1940	13%	11%
1940-1949	4%	3%
1950-1959	7%	6%
1960-1969	7%	6%
1970-1979	19%	20%
1980-1989	16%	17%
1990-1999	15%	17%
2000-2009	18%	19%
Later than 2010	0%	0%

Average Age

1974

1977

Median Value

City of Traverse City	\$174,500
East Bay Charter Township	\$165,000
Charter Township of Garfield	\$157,000
Elmwood Charter Township	\$223,200
Acme Township	\$197,200
Blair Township	\$121,000
Long Lake Township	\$178,900
Peninsula Township	\$341,200

Home Heating Fuel

Percent of Homes Natural Gas	82%	79%
Percent of Homes Using Propane	5%	8%
Percent of Homes Using Wood	2%	3%
Percent of Homes Using Solar Energy	0%	0%

Personal Income

Census-ACS Data (2008-2012 5 Year Summary File)

Median Household Income (2012 Dollars)

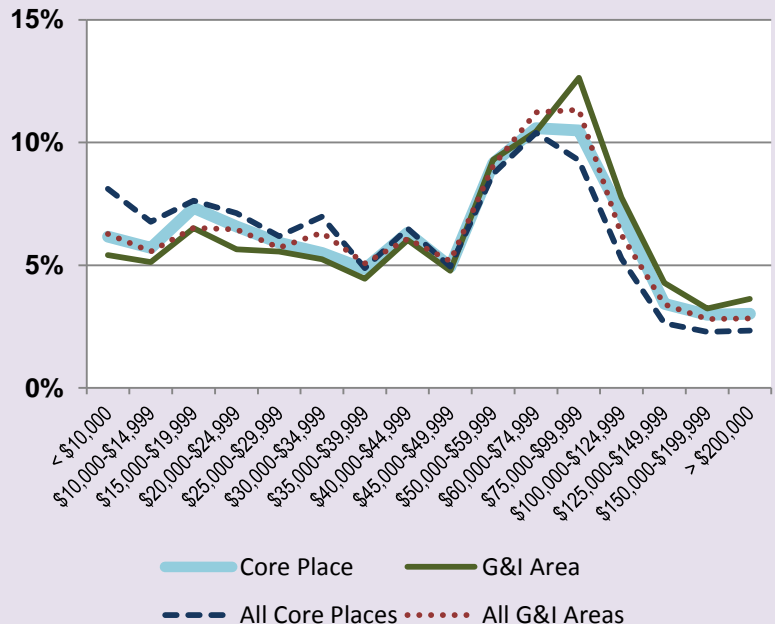
Core Place

City of Traverse City	\$44,542
East Bay Charter Township	\$59,817
Charter Township of Garfield	\$41,712
Greilickville CDP	\$56,778

G&I Area

City of Traverse City	\$44,542
East Bay Charter Township	\$59,817
Charter Township of Garfield	\$41,712
Elmwood Charter Township	\$66,036
Acme Township	\$77,654
Blair Township	\$44,521
Long Lake Township	\$61,782
Peninsula Township	\$76,466

Household Income Distribution



Per Capita Annual Income (2012 Dollars)

Core Place	\$28,051
G&I Area	\$29,334

Policy

Data Source: Commercial Corridor Inventory Interview	Core Place Units of Government Interviewed			
	City of Traverse City	East Bay Charter Township	Charter Township of Garfield	Elmwood Charter Township
Year of Master Plan Approval	2009	1999	2007	1905
<i>Master Plan Update</i>	NA	39853	NA	2012
Community Economic Strategy	Yes	No	No	No
<i>Economic Strategy Coordinates with Regional Strategy</i>	Yes	NA	NA	NA
Growth & Investment Strategy	Yes	No	Yes	Yes
<i>Identify Areas of Focus for Growth & Investment Strategy</i>	Yes	No	Yes	Yes
<i>Active G&I Strategy Development Discussions</i>	NA	Yes	NA	NA
<i>Planning Zoning Benchmarks</i>	Yes	NA	Yes	Yes
Development Opportunities on Corridor	Yes	Yes	Yes	Yes
<i>Redevelopment Priorities Identified</i>	Yes	No	Yes	No
<i>Redevelopment Resources Identified</i>	Yes	Yes	Yes	No
<i>Market Potential Development Sites</i>	Yes	No	Yes	No
Guides and Resources				
<i>Publish Development Guide</i>	Yes	Yes	Yes	No
<i>Zoning Orientation Package Provided to Staff & Committees</i>	Yes	Yes	Yes	Yes
<i>Zoning Training Funding</i>	Yes	Yes	Yes	Yes
Community Marketing Strategy	Yes	No	No	No
Area Plans				
<i>Downtown Plan</i>	Yes	No	No	No
<i>Downtown Development Authority</i>	DDA Established 1978			
<i>Corridor Improvement Plan</i>	Yes	No	No	Yes
<i>Corridor Improvement Authority</i>				

Zoning

Zoning Authority with Identified Commercial Corridors	Districts in Identified Commercial Corridors	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowed in Corridors
City of Traverse City	R-1b R-2 R-9 R-15 R-29 HR C-1 C-2 C-3 C-4a C-4b C-4c I D-1 D-2 D-3 H-1 H-2	90	67%	83%	85 ft
Acme Township	B-1P B-1S B-2 B-3 R-2 R-3	25	17%	0%	40 ft
Blair Township	RN CM RC V BV IS	41	33%	33%	55 ft
East Bay Township	LDR MDR RB VC PO IND	50	33%	33%	50 ft
Elmwood Township	R-1 NC GC SC	7	0%	0%	35 ft
Charter Township of Garfield	R-1A R-1B R-1C R-1M R-1MH C-1 C-1-O C-2 C-3 C-4 MUIBD-G MUIBD-L A-1	76	8%	8%	40 ft

Infrastructure

Data Source: Commercial Corridor Inventory Interviews	Units of Government Interviewed			
	City of Traverse City	East Bay Charter Township	Charter Township of Garfield	Elmwood Charter Township
Municipal Water Service	Yes	Yes	Yes	Yes
Additional Capacity	Yes	Yes	Yes	Limited
Water Reliability Study	Yes	Yes	Yes	Yes
Wellhead Protection Plan	NA	Yes	No	No
Municipal Sewer Service	Yes	Yes	Yes	Yes
Additional Capacity	Yes	Yes	Yes	Yes
Waste Water Master Plan	Yes	Yes	Yes	Yes
Broadband	Available In Core Place			
Available Technologies				
Fiber (non FTTH)		Yes		
Cable		Yes		
DSL		Yes		
4G Wireless		Yes		
Municipal WiFi		Yes		
Fixed Wireless Broadband		Yes		
Available Speeds				
Ultra - Greater than 1 Gigabit Per Second (Gbps)		Limited		
High - 100 Mbps to less than 1 Gbps		Yes		
Energy	Available In Core Place			
Natural Gas		Yes		
Underground Electric Service		Yes		
Renewable Energy Generation		Yes		

Commercial Corridor Placemaking Elements

ID	Name	Placemaking Elements Supporting Walkability				Job / Population Ratio
		Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	
27	Traverse City CBD Union Street Corridor	No	Yes	Yes	Yes	1.836
28	Traverse City CBD Front/State Street Corridor	Yes	No	Yes	Yes	2.170
29	Traverse City CBD Cass Street Corridor	Yes	No	Yes	Yes	2.526
30	Traverse City CBD Eighth Street Corridor	Yes	No	Yes	Yes	1.015
31	Traverse City CBD Boardman Ave. Corridor	No	No	Yes	Yes	1.331
32	Traverse City CBD Woodmere Ave Corridor	No	No	Yes	Yes	0.264
33	Traverse City CBD Warehouse District	No	No	Yes	Yes	4.510
34	Traverse City Division Street Neighborhood Commercial Co.	No	No	Yes	Yes	0.698
35	Traverse City 14th Street Corridor	No	Yes	No	Yes	0.265
36	Traverse City 8th Street Corridor	No	Yes	No	Yes	0.652
37	Traverse City Garfield Avenue Corridor	No	Yes	Yes	Yes	1.086
38	Traverse City East Front Street	No	No	Yes	Yes	0.853
39	Traverse City West Front Street	No	Yes	No	Yes	4.040
40	Traverse City US 31 Corridor	Yes	Yes	Yes	Yes	1.082
41	Traverse City M22/M72 Corridor	Yes	Yes	Yes	Yes	0.810
42	Traverse City Munson Ave Corridor	No	Yes	No	Yes	0.753
21	Blair Chums Corner/Grawn Corridor	No	Yes	Yes	No	0.160
43	Acme US31/M72 Acme Shores Corridor	No	Yes	Yes	Yes	0.382
44	East Bay Miracle Mile Corridor	No	No	Yes	Yes	1.907
45	East Bay 3 Mile & Hammond Corridor	No	Yes	No	Yes	0.237
46	Elmwood Cherry Bend Corridor	No	No	Yes	Yes	0.259
47	Garfield South Airport Corridor	Yes	Yes	Yes	Yes	1.847
48	Garfield Barlow Park Corridor	No	Yes	Yes	No	0.474
49	Garfield Cass Road Corridor	No	No	Yes	No	2.844

Talent Jobshed

Census Data	Core Place	G&I Area
	City of Traverse City, Garfield, East Bay, Greilickville CDP	City of Traverse City, Greilickville CDP, Garfield Township, East Bay Township, Acme Township, Blair Township
Workers Living within Study Area	17,788	28,068
Worker Density (per acre)	0.35	0.22
Worker's Earnings		
% with earnings \$1250/month or less	28%	28%
% with earnings \$1251/month to \$3333/month	41%	40%
% with earnings greater than \$3333/month	31%	32%
Jobs Located in Area	36,980	42,477
Job Density (per acre)	0.73	0.34

Commute Data for Workers Employed in Core Place

Commuting data for workers residing from 2 - 175 miles from G&I Area

Commuting Workers	33,411	21% Commuting 5 Miles or Less
Total Daily One Way Commute for all Commuters		
Route Distance (Miles)	931,020	
Commute Time (Minutes)	1,164,167	
Total Annual Commute for all Commuters		
Distance (Miles)	488,785,671	
Time (Hours)	10,186,461	
Annual Commuting Costs		
Total Fuel Cost	74,380,428	
Total Cost (IRS 2014 Standard Mileage Rate)	\$273,719,976	
Average Per Worker Commute	Daily (2-Way)	Annual
Distance (Miles)	56	14,629
Time (Hours)	1.2	305
Cost (IRS Standard Mileage Rate)	\$31	\$8,193

Retail Activity

	Core Place Activity	G&I Area Activity	County Activity
Total Retail Sales	\$998,850,352	\$1,143,674,558	\$1,174,416,760
Total Potential Retail Sales	\$441,843,288	\$741,795,009	\$874,196,195
Leakage	(\$557,007,064)	(\$401,879,549)	(\$300,220,565)

Classification: *Regional Retail Hub*

Traverse City & Surrounding Townships area businesses are capturing sales from the residents of Traverse City & Surrounding Townships area as well as areas inside and outside Grand Traverse County.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$79,869,635	\$92,579,299	86%
Health/Personal Care Stores	\$66,187,168	\$58,220,755	114%
Clothing & Accessories Stores	\$58,030,635	\$37,272,875	156%
Sport/Hobby/Book/Music Stores	\$46,178,613	\$17,915,748	258%
General Merchandise Stores	\$291,251,270	\$154,829,800	188%
Food & Beverage Establishments	\$103,356,766	\$69,753,375	148%
E-Shopping/Mail-Order	\$3,796,778	\$37,169,546	10%

Corridor Street Name(s): Union Street from Grandview Parkway to 9th Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.52 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): 6,885 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel, Parking Structure(s)

Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 94



Corridor Overview

The Union Street Commercial Corridor is located in Traverse City's Downtown Neighborhood and is in the most formally and intensely developed of the city's two types of commercial neighborhoods. The focus is on high intensity, regional, commercial activity. The overall level of intensity generated within the confines of each district in this class of neighborhood tends to be the highest of commercial uses.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Union Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,048	43,123	69,802
People per Acre	7.91	0.85	0.55
People per Square Mile	5,059	543	353
Total Housing (2010)	1,040	21,631	34,164
Gross Neighborhood Density (per acre)	4.01	0.43	0.27
Study Area Size (Land Cover)			
Acres	259.06	50,796.80	126,579.20
Square Miles	0.40	79.37	197.78
Workers Living within Study Area	1,160	17,788	28,068
% with earnings \$1250/month or less	31%	28%	28%
% with earnings \$1251/month to \$3333/month	39%	41%	40%
% with earnings greater than \$3333/month	30%	31%	32%
Jobs Located within Study Area	3,761	36,980	42,477
Job Density (per acre)	14.52	0.73	0.34

Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-2 C-4a C-4b C-4c	100%	100%	100%	55.4	89.7	85 ft

Infrastructure

Public Utilities

Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity

Energy Utilities

Underground Electric	Yes
Renewable Energy Production (Solar)	Yes
Natural Gas	Yes

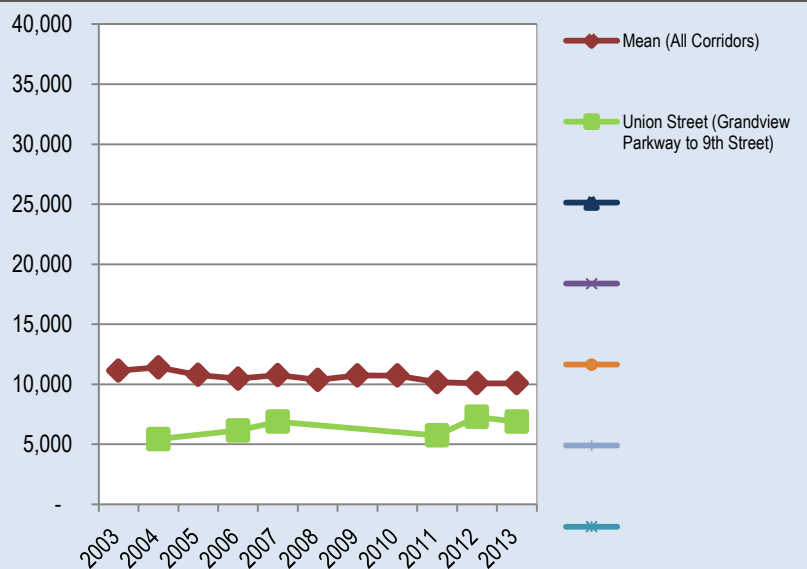
Broadband

Yes - 6 Technologies (Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)

Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Traffic Counts



Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
<i>Lars Hockstad Auditorium</i>		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>US Post Office, Hannah & Lay Mercantile Building, Boardman River Bridge, Perry Hannah House, Traverse City State Bank Building</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Front Street from Boardman River to Wellington; State Street from Front Street to Boardman

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 1.34 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): 8,498 Source: City of Traverse City

Number of Traffic Lanes: 2, Sections with Bi-Directional or One Way Traffic

Parking: Parallel, Parking Structure(s)

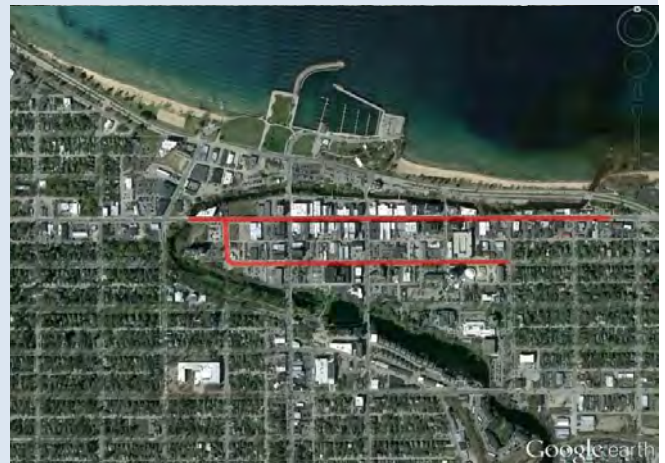
Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks, Mid-Block Crosswalks

Walk Score: 98



Corridor Overview

The E. Front Street Commercial Corridor is located in Traverse City's Downtown Neighborhood and is the most formally and intensely developed of the city's two types of commercial neighborhoods. The focus is on high intensity, regional, commercial activity. The overall level of intensity generated within the confines of each district in this class of neighborhood tends to be the highest of commercial uses.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Front/State Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,299	43,123	69,802
People per Acre	6.65	0.85	0.55
People per Square Mile	4,254	543	353
Total Housing (2010)	1,301	21,631	34,164
Gross Neighborhood Density (per acre)	3.76	0.43	0.27
Study Area Size (Land Cover)			
Acres	345.91	50,796.80	126,579.20
Square Miles	0.54	79.37	197.78
Workers Living within Study Area	1,212	17,788	28,068
% with earnings \$1250/month or less	31%	28%	28%
% with earnings \$1251/month to \$3333/month	40%	41%	40%
% with earnings greater than \$3333/month	29%	31%	32%
Jobs Located within Study Area	4,989	36,980	42,477
Job Density (per acre)	14.42	0.73	0.34

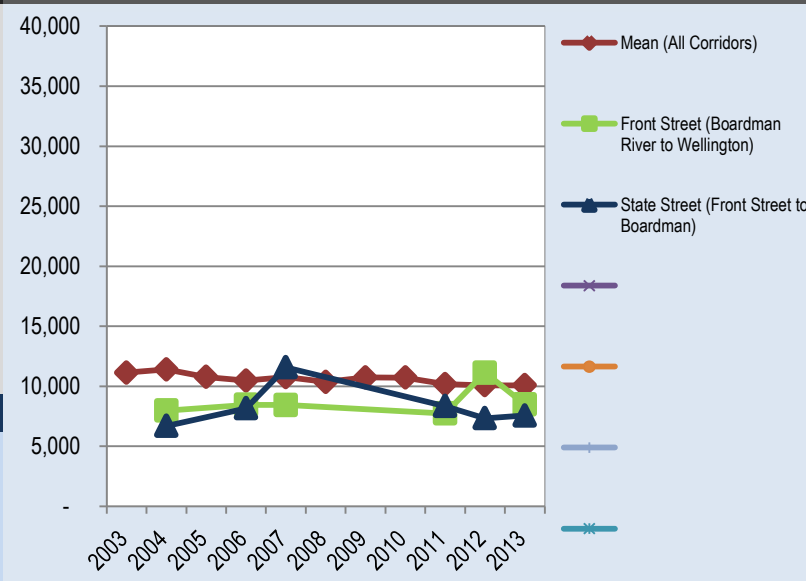
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-4a C-4b C-4c	100%	100%	100%	79.2	89.7	85 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	Yes	
Renewable Energy Production (Wind, Solar)	Yes	
Natural Gas	Yes	
Broadband	Yes - 6 Technologies (Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	Yes	Grocery Stores	No
<i>Opera House, State Theater, Bijou, Park Place</i>		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Opera House, US Post Office, Park Place, Hannah & Lay Mercantile Building, Beadle Building, Traverse City State Bank Building</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Cass Street from Grandview Parkway to 8th Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.40 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 5,547 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel, Parking Structure(s)

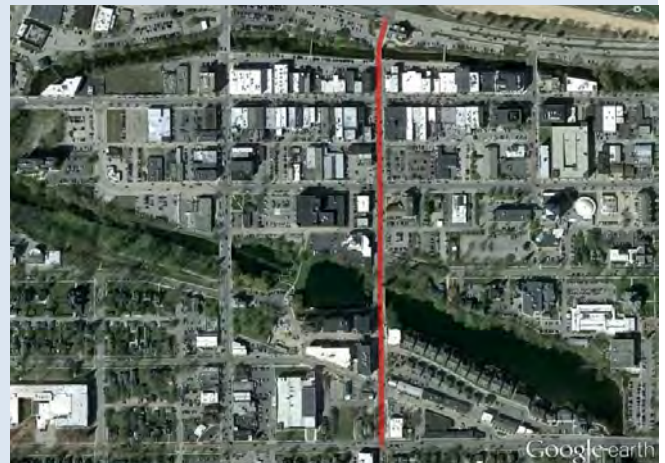
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 98



Corridor Overview

The Cass Street Commercial Corridor is located in Traverse City's Downtown Neighborhood and is in the most formally and intensely developed of the city's two types of commercial neighborhoods. The focus is on high intensity, regional, commercial activity. The overall level of intensity generated within the confines of each district in this class of neighborhood tends to be the highest of commercial uses.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Cass Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,493	43,123	69,802
People per Acre	6.78	0.85	0.55
People per Square Mile	4,340	543	353
Total Housing (2010)	838	21,631	34,164
Gross Neighborhood Density (per acre)	3.81	0.43	0.27
Study Area Size (Land Cover)			
Acres	220.15	50,796.80	126,579.20
Square Miles	0.34	79.37	197.78
Workers Living within Study Area	549	17,788	28,068
% with earnings \$1250/month or less	28%	28%	28%
% with earnings \$1251/month to \$3333/month	41%	41%	40%
% with earnings greater than \$3333/month	30%	31%	32%
Jobs Located within Study Area	3,771	36,980	42,477
Job Density (per acre)	17.13	0.73	0.34

Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-4a C-4b C-4c D-1	100%	100%	100%	61.0	89.7	85 ft

Infrastructure

Public Utilities

Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity

Energy Utilities

Underground Electric	Yes
Renewable Energy Production (Wind, Solar)	Yes
Natural Gas	Yes

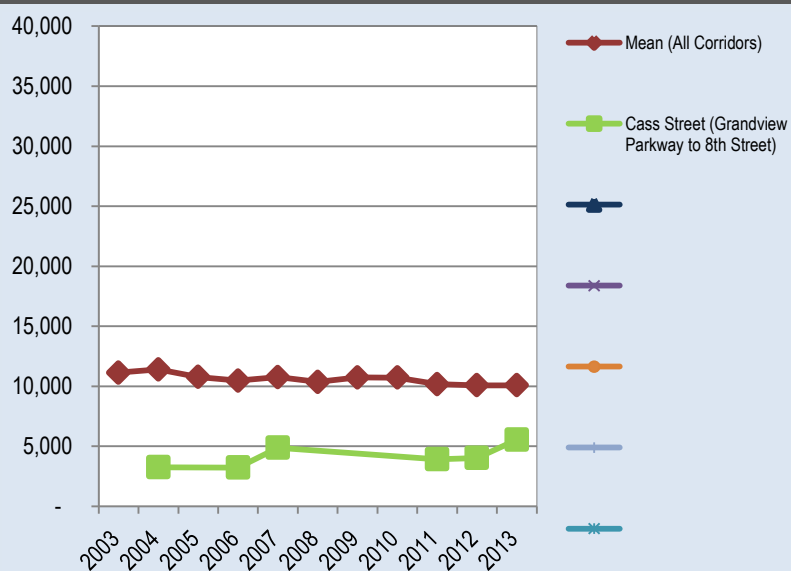
Broadband

Yes - 6 Technologies
(Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)

Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Traffic Counts



Placemaking Elements

Theaters/Entertainment Venues <i>Old Town Playhouse</i>	Yes	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings <i>Beadle Building</i>	Yes	Pocket Parks	Yes
		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Eighth Street from Locust Street to Barlow Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.95 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 12,081 Source: City of Traverse City

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: Parallel, Parking Structure(s)

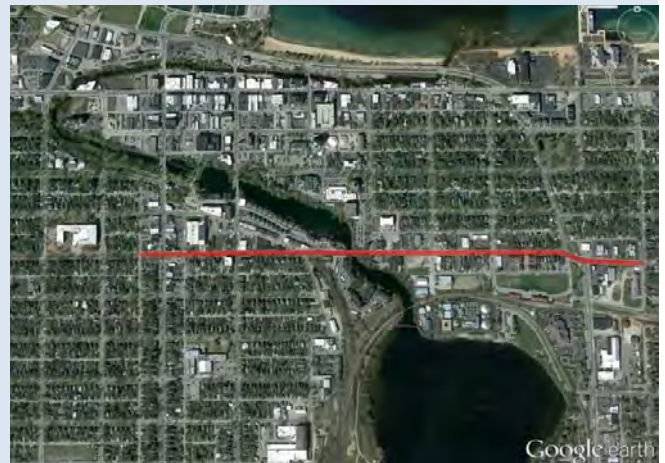
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 89



Corridor Overview

The Eighth Street Corridor divides Traverse City's Downtown from the largely residential areas to the south. As the most southerly east/west route across town, portions of Eighth Street average more than 20,000 vehicles per day making it one of the busiest streets in the City. Along its length, Eighth Street has several different "character areas," each influenced by traffic volumes, existing land uses, proximity to Downtown, and other factors that will increase each area's potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Eighth Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	3,565	43,123	69,802
People per Acre	8.59	0.85	0.55
People per Square Mile	5,496	543	353
Total Housing (2010)	1,925	21,631	34,164
Gross Neighborhood Density (per acre)	4.64	0.43	0.27
Study Area Size (Land Cover)			
Acres	415.17	50,796.80	126,579.20
Square Miles	0.65	79.37	197.78
Workers Living within Study Area	1,686	17,788	28,068
% with earnings \$1250/month or less	30%	28%	28%
% with earnings \$1251/month to \$3333/month	41%	41%	40%
% with earnings greater than \$3333/month	29%	31%	32%
Jobs Located within Study Area	3,617	36,980	42,477
Job Density (per acre)	8.71	0.73	0.34

Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-29 C-1 C-2 C-3 D-1 D-2	100%	100%	83%	29.0	69.7	45 ft

Infrastructure

Public Utilities

Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity

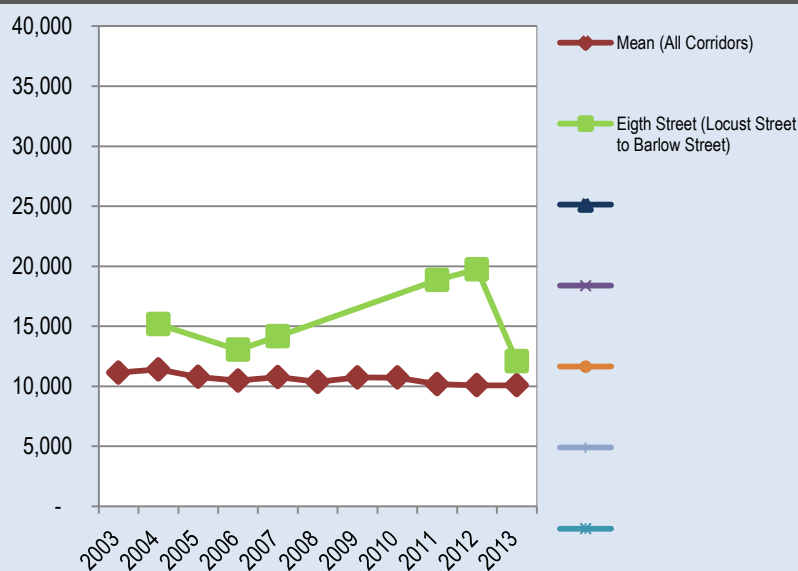
Energy Utilities

Underground Electric	No
Renewable Energy Production (Other)	Yes
Natural Gas	Yes

Broadband

Yes - 6 Technologies (Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	Yes	Grocery Stores	No
<i>Lars Hockstad Auditorium, Old Town Playhouse</i>		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Traverse City Train Depot</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Boardman Avenue from Front Street to 8th Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.33 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): 6,629 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel

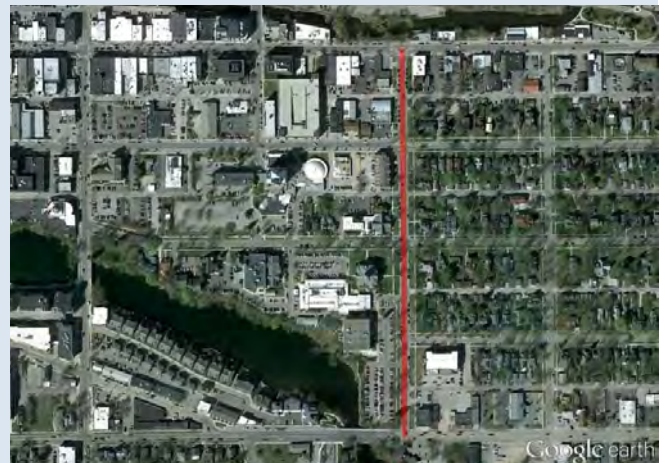
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 92



Corridor Overview

The Boardman Avenue Corridor divides Traverse City's Downtown from the largely residential areas to the east. The corridor is largely defined by city and county governmental offices as well as administration offices for the Traverse City Area Public Schools.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Boardman Ave. Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,394	43,123	69,802
People per Acre	7.19	0.85	0.55
People per Square Mile	4,604	543	353
Total Housing (2010)	760	21,631	34,164
Gross Neighborhood Density (per acre)	3.92	0.43	0.27
Study Area Size (Land Cover)			
Acres	193.76	50,796.80	126,579.20
Square Miles	0.30	79.37	197.78
Workers Living within Study Area	508	17,788	28,068
% with earnings \$1250/month or less	31%	28%	28%
% with earnings \$1251/month to \$3333/month	42%	41%	40%
% with earnings greater than \$3333/month	27%	31%	32%
Jobs Located within Study Area	1,855	36,980	42,477
Job Density (per acre)	9.57	0.73	0.34

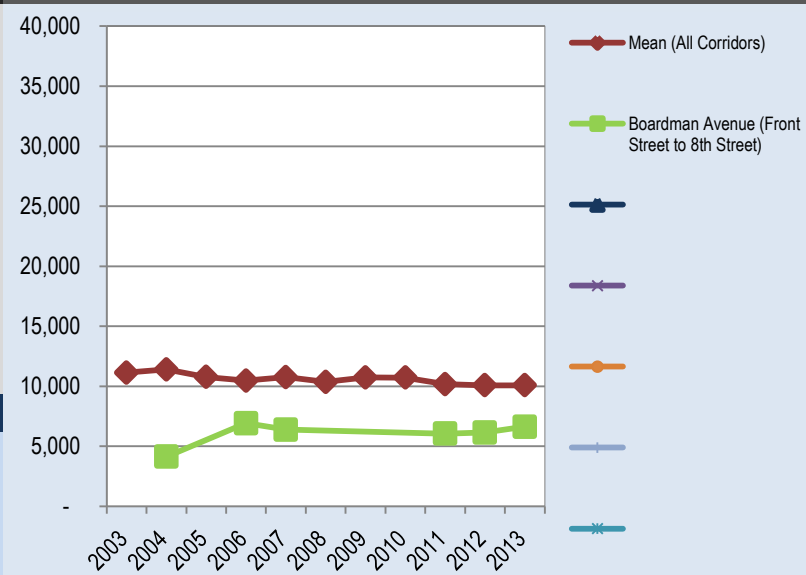
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-2 R-15 C-2 C-4a C-4b	100%	80%	60%	15.0	83.8	60 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 6 Technologies (Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	No
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Traverse City Courthouse</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Woodmere Avenue from 8th Street to Hannah Avenue

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.26 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): 16,052 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

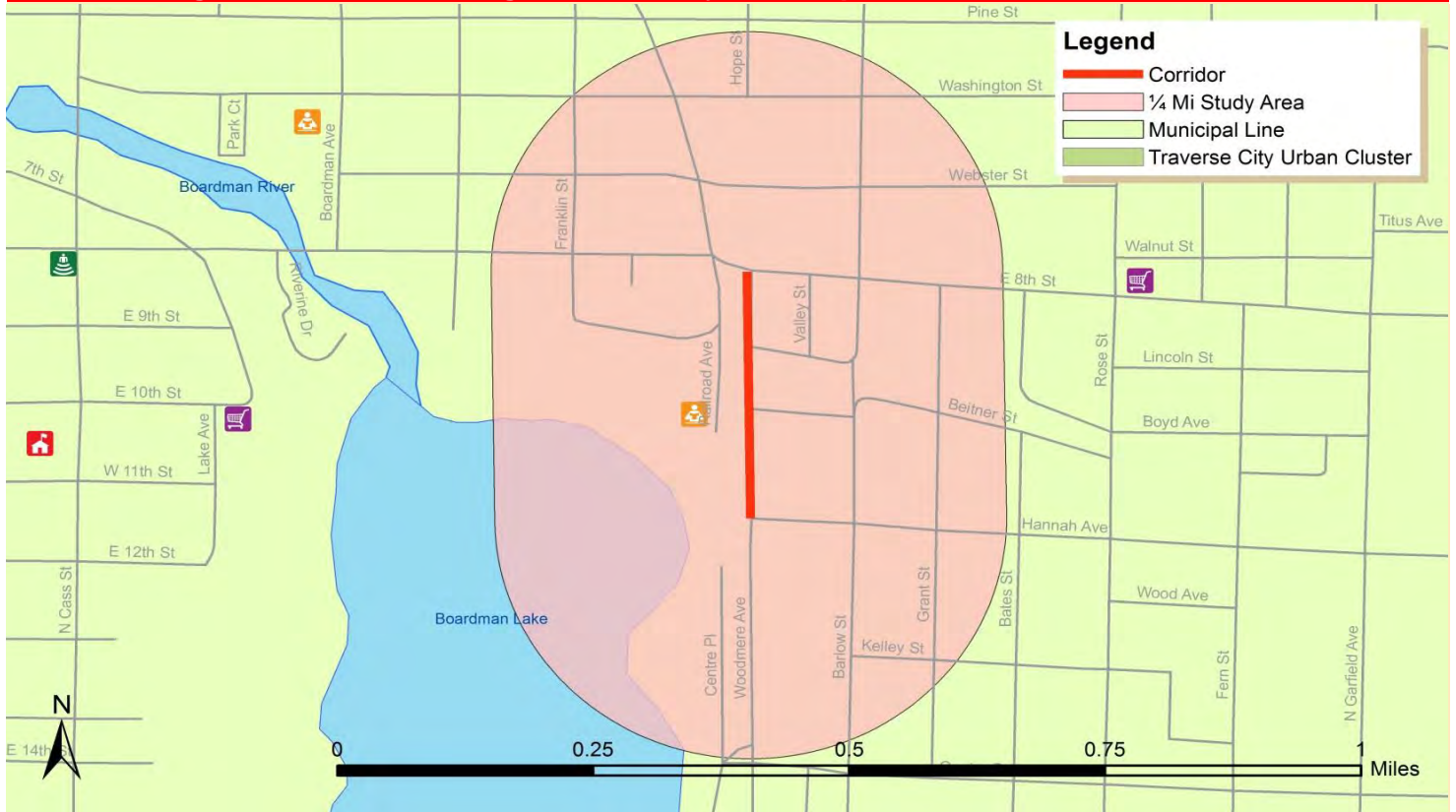
Walk Score 68



Corridor Overview

The Woodmere Avenue Corridor contains a mix of residential, commercial, industrial, and governmental activity. The corridor provides for north/south traffic flows between the major east/west Eight Street and South Airport Road corridors.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Woodmere Ave Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,391	43,123	69,802
People per Acre	7.63	0.85	0.55
People per Square Mile	4,885	543	353
Total Housing (2010)	691	21,631	34,164
Gross Neighborhood Density (per acre)	3.79	0.43	0.27
Study Area Size (Land Cover)			
Acres	182.23	50,796.80	126,579.20
Square Miles	0.28	79.37	197.78
Workers Living within Study Area	458	17,788	28,068
% with earnings \$1250/month or less	28%	28%	28%
% with earnings \$1251/month to \$3333/month	45%	41%	40%
% with earnings greater than \$3333/month	27%	31%	32%
Jobs Located within Study Area	367	36,980	42,477
Job Density (per acre)	2.01	0.73	0.34

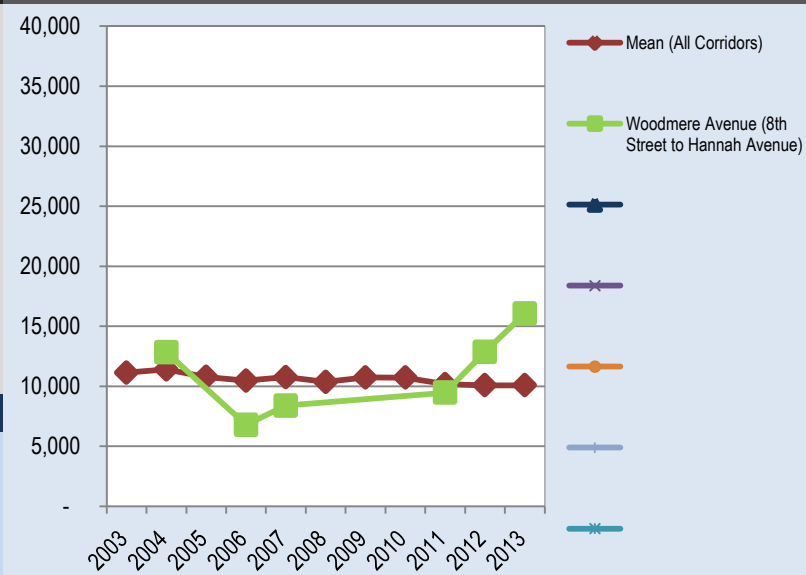
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-2 C-3 I D-2	75%	75%	75%	55.4	69.7	60 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband		
	Yes - 6 Technologies	(Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Traverse City District Library, Traverse City Train Depot</i>		Public Art Installations	Yes
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Hall Street from Grandview Parkway to Front Street; Garland Street from Grandview Parkway to Hall Street

Corridor Classification: Central Business District

Unit(s) of Government: City of Traverse City

Length: 0.31 miles

Street Classification: Major Collector, Local

2013 Traffic Volume(AADT): 3,531 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel, Diagonal

Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 92



Corridor Overview

The Warehouse District location between Traverse City's waterfront and its downtown is driving the conversion from the historically industrial/warehouse/service land uses to retail/office/lodging/residential based redevelopment. This corridor contains the Bay Area Transportation Authority's Hall Street Transfer Station providing regional transit connections to the Traverse City fix route system.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City CBD Warehouse District	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	824	43,123	69,802
People per Acre	4.82	0.85	0.55
People per Square Mile	3,086	543	353
Total Housing (2010)	472	21,631	34,164
Gross Neighborhood Density (per acre)	2.76	0.43	0.27
Study Area Size (Land Cover)			
Acres	170.91	50,796.80	126,579.20
Square Miles	0.27	79.37	197.78
Workers Living within Study Area	694	17,788	28,068
% with earnings \$1250/month or less	32%	28%	28%
% with earnings \$1251/month to \$3333/month	38%	41%	40%
% with earnings greater than \$3333/month	30%	31%	32%
Jobs Located within Study Area	3,716	36,980	42,477
Job Density (per acre)	21.74	0.73	0.34

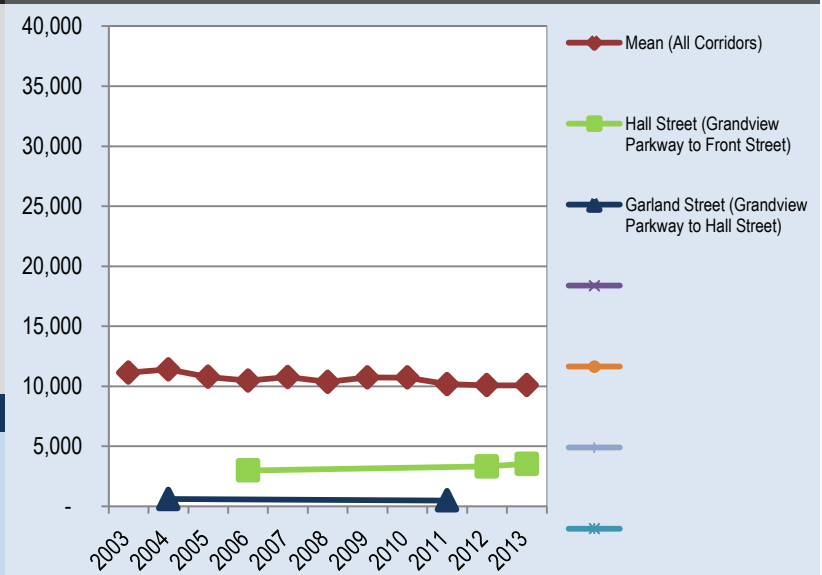
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-4a D-3	100%	100%	100%	69.7	79.2	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband		
	Yes - 6 Technologies	(Fiber, Cable, DSL, WiFi, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	Yes
<i>DDA Established 1978</i>	
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
<i>Candle Factory, BATA Transfer Station, Big Daylight</i>		Public Art Installations	Yes
<i>Candy Factory</i>		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Division Street from Grandview Parkway to north of 5th Street

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 0.36 miles

Street Classification: Principal Arterial - Other

2013 Traffic Volume(AADT): 21,233 Source: MDOT

Number of Traffic Lanes: 4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

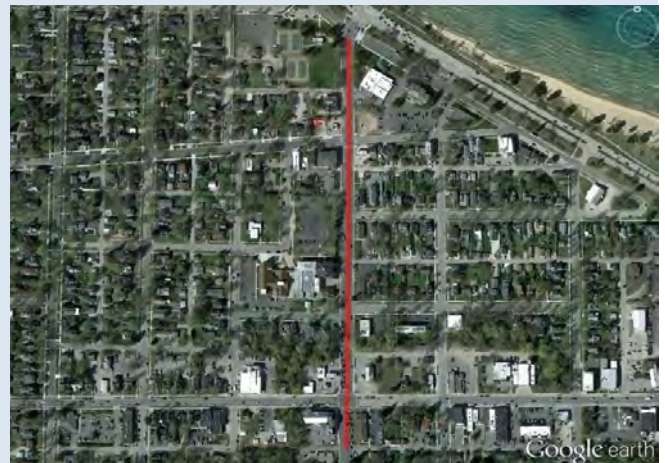
Transit Service: BATA - Dial-A-Ride

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 78



Corridor Overview

The Division Street Commercial Corridor is located to west of Traverse City's Downtown and provides for a major north/south traffic route through the city. The City of Traverse City has been working with MDOT and the Division Street Steering Committee on recommended improvements to the Division Street/US-31/M-37 corridor.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City Division Street Neighborhood Commercial Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,615	43,123	69,802
People per Acre	7.83	0.85	0.55
People per Square Mile	5,009	543	353
Total Housing (2010)	812	21,631	34,164
Gross Neighborhood Density (per acre)	3.93	0.43	0.27
Study Area Size (Land Cover)			
Acres	206.37	50,796.80	126,579.20
Square Miles	0.32	79.37	197.78
Workers Living within Study Area	766	17,788	28,068
% with earnings \$1250/month or less	30%	28%	28%
% with earnings \$1251/month to \$3333/month	35%	41%	40%
% with earnings greater than \$3333/month	35%	31%	32%
Jobs Located within Study Area	1,127	36,980	42,477
Job Density (per acre)	5.46	0.73	0.34

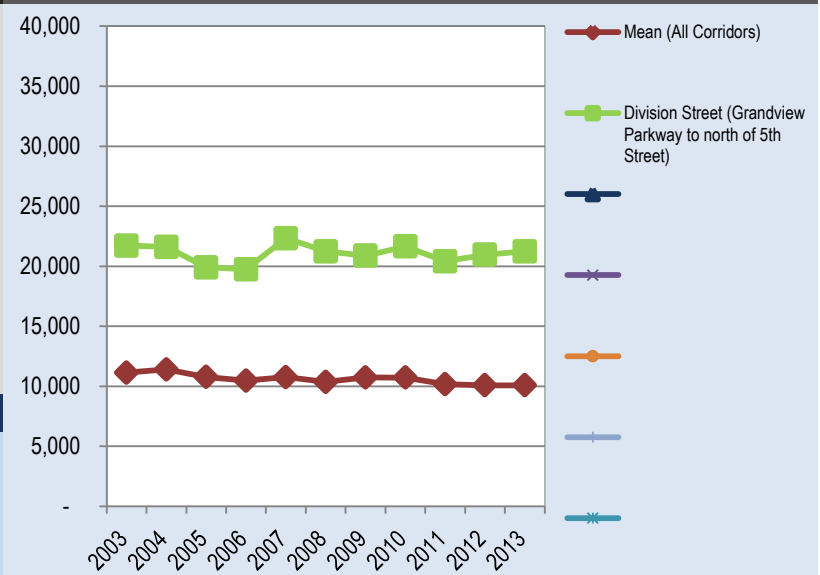
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1b C-1 C-2	100%	67%	67%	8.7	55.4	35 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Fourteenth Street from Division Street to Lake Ridge Drive

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 0.86 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 15,155 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: Parallel

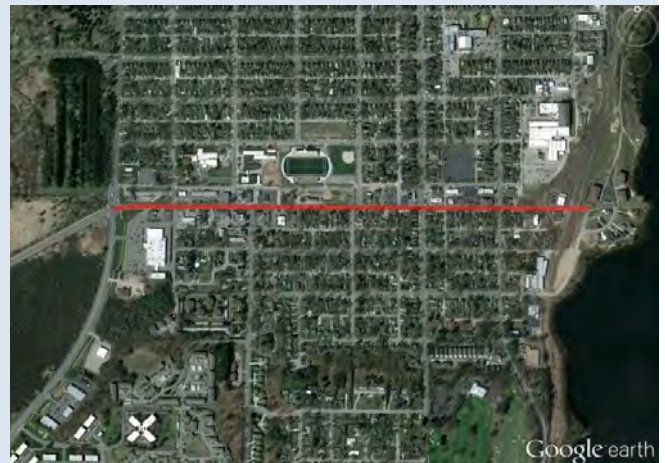
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 68



Corridor Overview

The Fourteenth Street Corridor extends from Division Street on the west to Boardman Lake on the east and serves as an important transportation link in the City. Along its length, Fourteenth Street has several different "character areas," each influenced by traffic volumes, existing land uses, proximity to Boardman Lake, traffic volumes at key Intersections and other factors that will increase each area's potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City 14th Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,775	43,123	69,802
People per Acre	7.75	0.85	0.55
People per Square Mile	4,959	543	353
Total Housing (2010)	1,460	21,631	34,164
Gross Neighborhood Density (per acre)	4.08	0.43	0.27
Study Area Size (Land Cover)			
Acres	358.12	50,796.80	126,579.20
Square Miles	0.56	79.37	197.78
Workers Living within Study Area	1,170	17,788	28,068
% with earnings \$1250/month or less	28%	28%	28%
% with earnings \$1251/month to \$3333/month	41%	41%	40%
% with earnings greater than \$3333/month	30%	31%	32%
Jobs Located within Study Area	735	36,980	42,477
Job Density (per acre)	2.05	0.73	0.34

Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-2 R-9 R-29 C-1 C-2 C-3 I	86%	71%	43%	9.0	63.4	60 ft

Infrastructure

Public Utilities

Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity

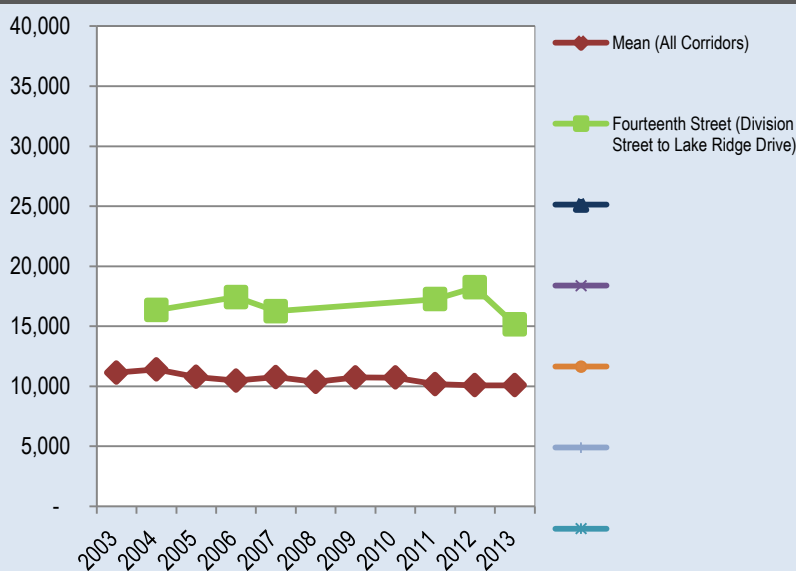
Energy Utilities

Underground Electric	No
Renewable Energy Production	No
Natural Gas	Yes

Broadband

Yes - 5 Technologies
(Fiber, Cable, DSL, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes
<i>2013 Corridors Master Plan</i>	

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	No
Iconic Buildings	Yes	Pocket Parks	No
<i>Thirby Field</i>		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Eight Street from Barlow Street to Fair Street

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 0.82 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 21,612 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

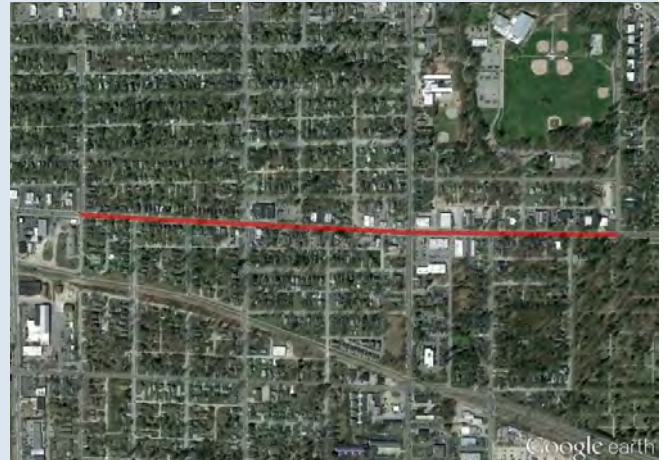
Transit Service: BATA - Dial-A-Ride

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score: 58



Corridor Overview

The Eighth Street Corridor extends from Union Street on the west to Fair Street on the east. As the most southerly east/west route across town, portions of Eighth Street average more than 20,000 vehicles per day making it one of the busiest streets in the City. Along its length, Eighth Street has several different “character areas,” each influenced by traffic volumes, existing land uses, proximity to Downtown, and other factors that will increase each area’s potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City 8th Street Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,296	43,123	69,802
People per Acre	5.92	0.85	0.55
People per Square Mile	3,789	543	353
Total Housing (2010)	1,188	21,631	34,164
Gross Neighborhood Density (per acre)	3.06	0.43	0.27
Study Area Size (Land Cover)			
Acres	387.86	50,796.80	126,579.20
Square Miles	0.61	79.37	197.78
Workers Living within Study Area	740	17,788	28,068
% with earnings \$1250/month or less	31%	28%	28%
% with earnings \$1251/month to \$3333/month	41%	41%	40%
% with earnings greater than \$3333/month	28%	31%	32%
Jobs Located within Study Area	1,498	36,980	42,477
Job Density (per acre)	3.86	0.73	0.34

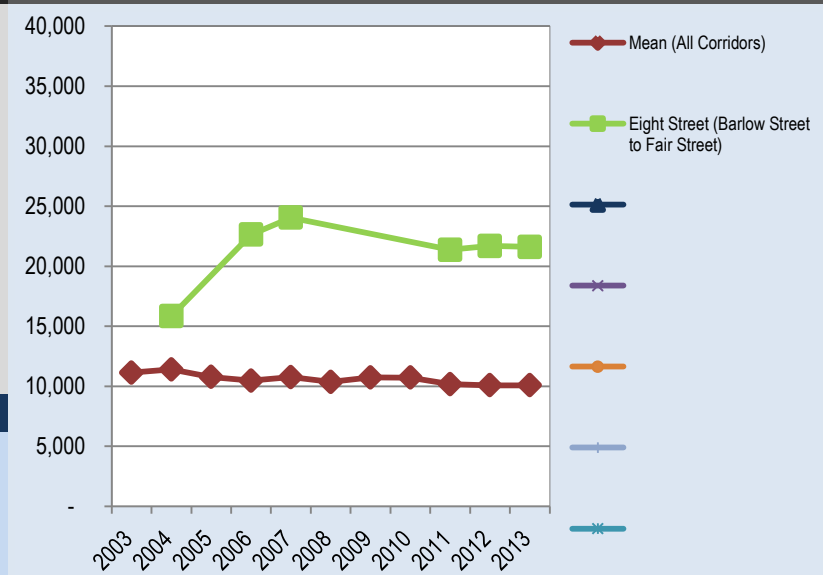
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-2 C-1 C-2 C-3	100%	75%	75%	21.8	63.4	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes <i>2013 Corridors Master Plan</i>

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Garfield Avenue from E. Front Street to Boon; Garfield Avenue/Road from Boon Street to Brimley Road

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City, Charter Township of Garfield

Length: 3.90 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 16,463 Source: City of Traverse City, N/A

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

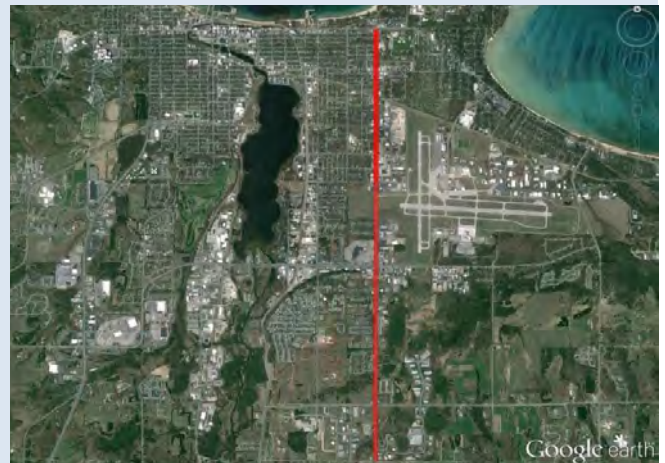
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

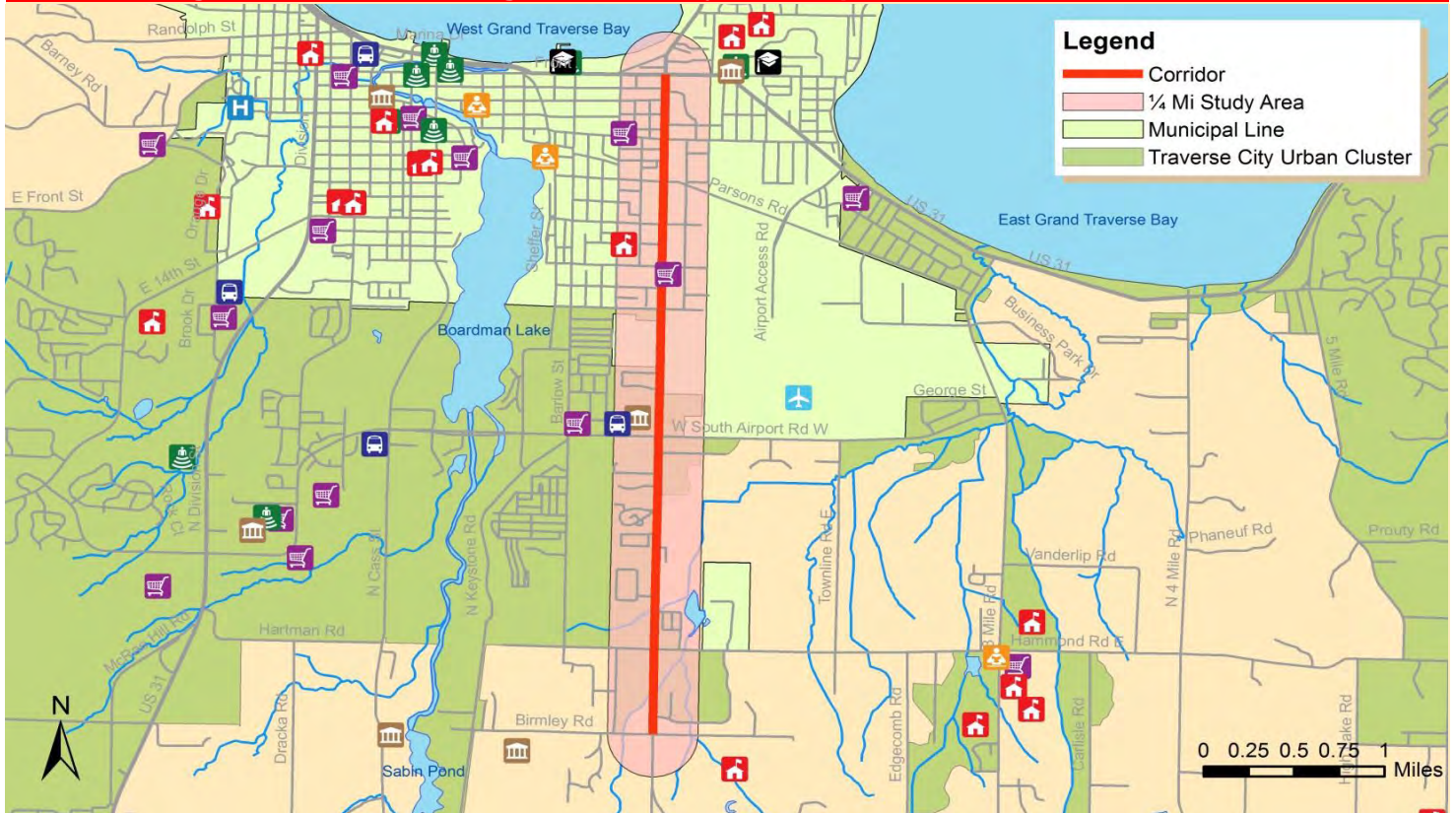
Walk Score: 55



Corridor Overview

Garfield Avenue Corridor provides a non-trunk line alternative for north-south movement, connecting the Village of Kingsley with US-31 just east of the core population center. Garfield Avenue is a key north/south route through the City. Along its length, Garfield Avenue has several different "character areas," each influenced by traffic volumes, existing land uses, proximity to the Civic Center, Cherry Capital Airport (TVC), proximity to the bay front, and other factors that will increase each area's potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City or Charter Township of Garfield)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City Garfield Avenue Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	5,028	43,123	69,802
People per Acre	3.69	0.85	0.55
People per Square Mile	2,361	543	353
Total Housing (2010)	2,551	21,631	34,164
Gross Neighborhood Density (per acre)	1.87	0.43	0.27
Study Area Size (Land Cover)			
Acres	1,363.13	50,796.80	126,579.20
Square Miles	2.13	79.37	197.78
Workers Living within Study Area	1,704	17,788	28,068
% with earnings \$1250/month or less	32%	28%	28%
% with earnings \$1251/month to \$3333/month	43%	41%	40%
% with earnings greater than \$3333/month	26%	31%	32%
Jobs Located within Study Area	5,461	36,980	42,477
Job Density (per acre)	4.01	0.73	0.34

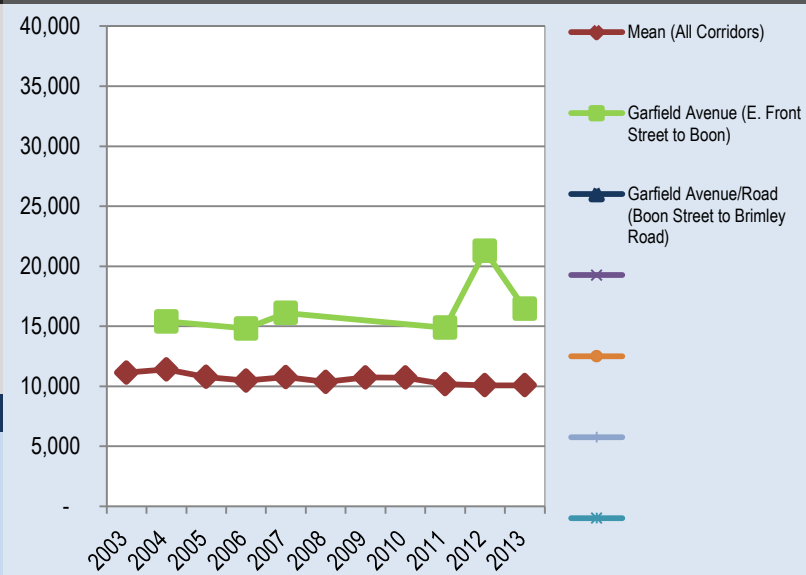
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
City of Traverse City: R-15 C-1 C-3	100%	100%	67%	15.0	63.4	45 ft
Charter Township of Garfield: R-1B R-1M C-1 C-1-O C-2 C-4 MUIBD-G MUIBD-L A-1	78%	11%	11%	1.0	76.4	40 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies	(Fiber, Cable, DSL, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes <i>2013 Corridors Master Plan</i>

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): East Front Street from between Wellington & Franklin to just east of College Drive

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 1.22 miles

Street Classification: Principal Arterial - Other

2013 Traffic Volume(AADT): 34,178 Source: MDOT

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking Parking Structure(s)

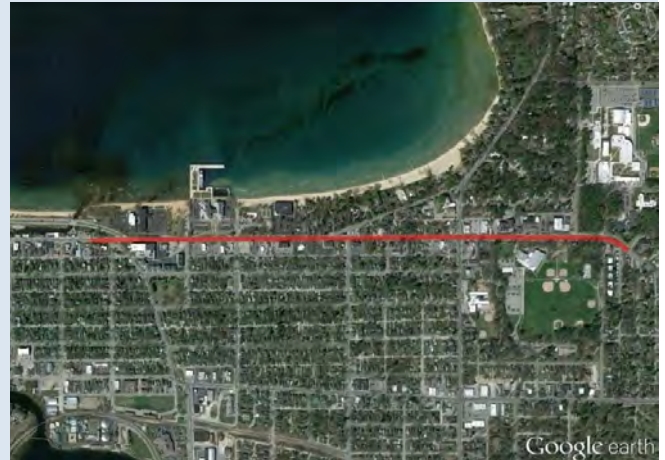
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 46



Corridor Overview

The East Front Street (US 31, M-37, and M72) Corridor extends from Grandview Parkway on the west to Fair Street/College Drive on the east. Front Street is a key east/west route through the City and the eastern segment presented in this section serves as an important east gateway. Along its length, East Front Street has several different "character areas," each influenced by traffic volumes, existing land uses, proximity to Downtown, proximity to the West Arm of Grand Traverse Bay, and other factors that will increase each area's potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City East Front Street	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,840	43,123	69,802
People per Acre	6.49	0.85	0.55
People per Square Mile	4,153	543	353
Total Housing (2010)	1,350	21,631	34,164
Gross Neighborhood Density (per acre)	3.08	0.43	0.27
Study Area Size (Land Cover)			
Acres	437.62	50,796.80	126,579.20
Square Miles	0.68	79.37	197.78
Workers Living within Study Area	909	17,788	28,068
% with earnings \$1250/month or less	29%	28%	28%
% with earnings \$1251/month to \$3333/month	37%	41%	40%
% with earnings greater than \$3333/month	34%	31%	32%
Jobs Located within Study Area	2,422	36,980	42,477
Job Density (per acre)	5.53	0.73	0.34

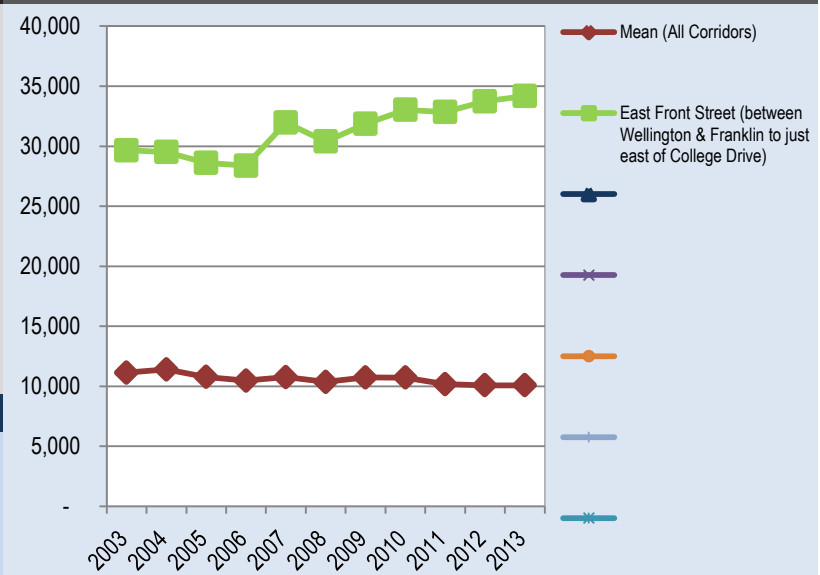
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-15 HR C-2 C-3 C-4a	100%	100%	80%	15.0	79.2	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	<i>Additional Capacity</i>
Water	Yes	<i>Additional Capacity</i>
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies <i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes <i>2013 Corridors Master Plan</i>

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes <i>Great Lake Maritime Academy/Hagerty Center</i>	Pocket Parks	Yes
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): West Front Street from Madison Street to Boardman River

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 0.85 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 15,391 Source: City of Traverse City

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: Parallel

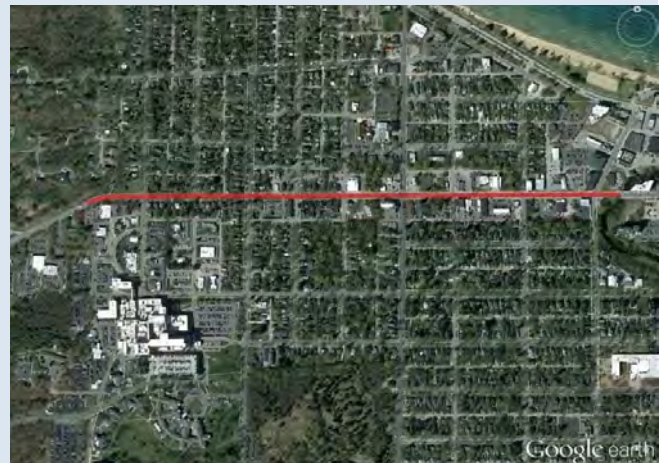
Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

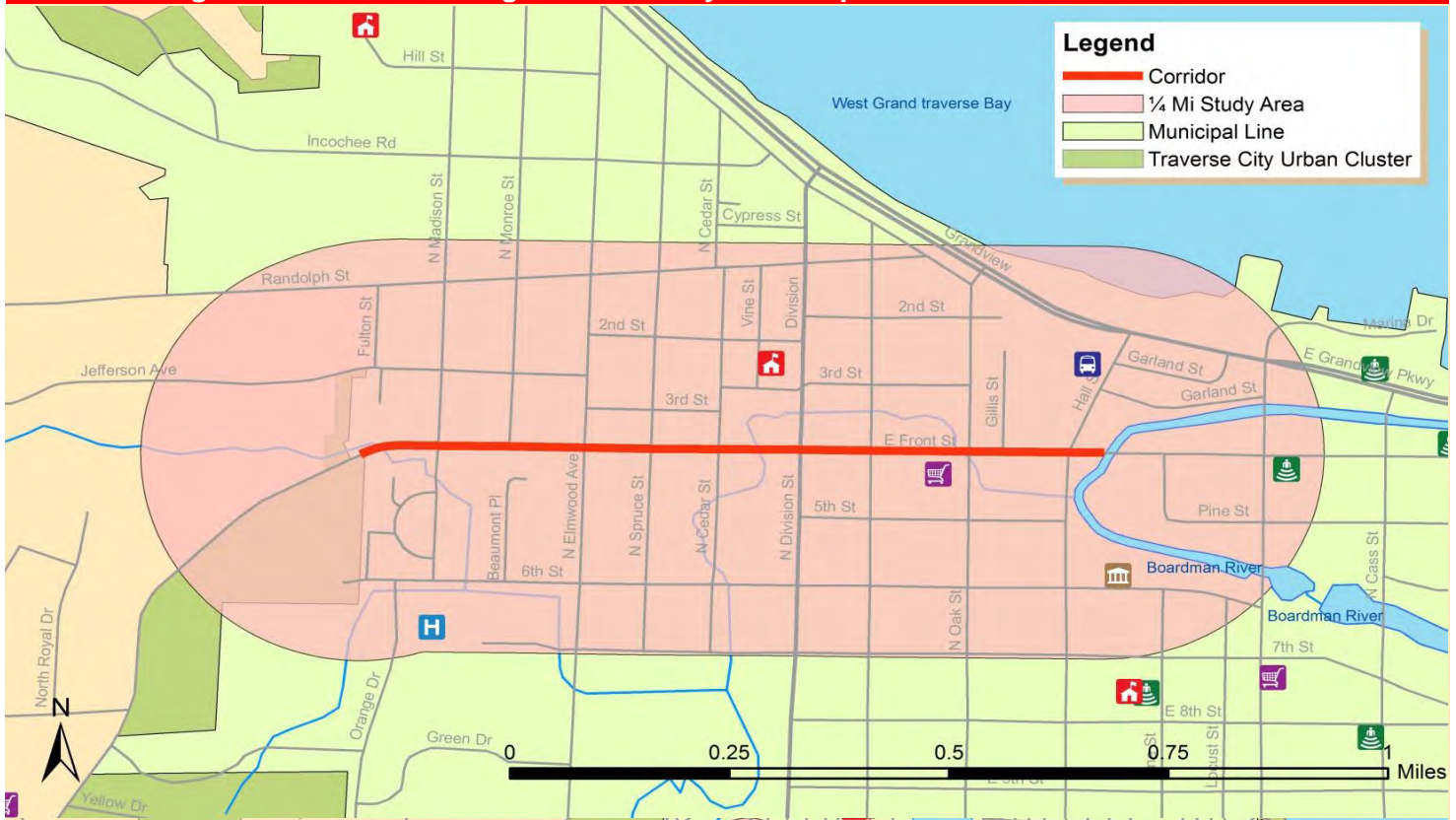
Walk Score: 74



Corridor Overview

The West Front Street Corridor extends from the City municipal limits/Madison Street on the west to the Front Street Bridge on the east. Front Street is a key east/west route through the City, and the West Front Street is a key gateway and connection between the City's western neighborhoods and neighboring communities and Downtown. Along its length, West Front Street has several different "character areas," each influenced by traffic volumes, existing land uses, proximity to Downtown, Munson Medical Center, Kids Creek, and other factors that will increase each area's potential.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City West Front Street	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,449	43,123	69,802
People per Acre	6.18	0.85	0.55
People per Square Mile	3,954	543	353
Total Housing (2010)	1,275	21,631	34,164
Gross Neighborhood Density (per acre)	3.22	0.43	0.27
Study Area Size (Land Cover)			
Acres	396.37	50,796.80	126,579.20
Square Miles	0.62	79.37	197.78
Workers Living within Study Area	1,334	17,788	28,068
% with earnings \$1250/month or less	30%	28%	28%
% with earnings \$1251/month to \$3333/month	36%	41%	40%
% with earnings greater than \$3333/month	34%	31%	32%
Jobs Located within Study Area	9,895	36,980	42,477
Job Density (per acre)	24.96	0.73	0.34

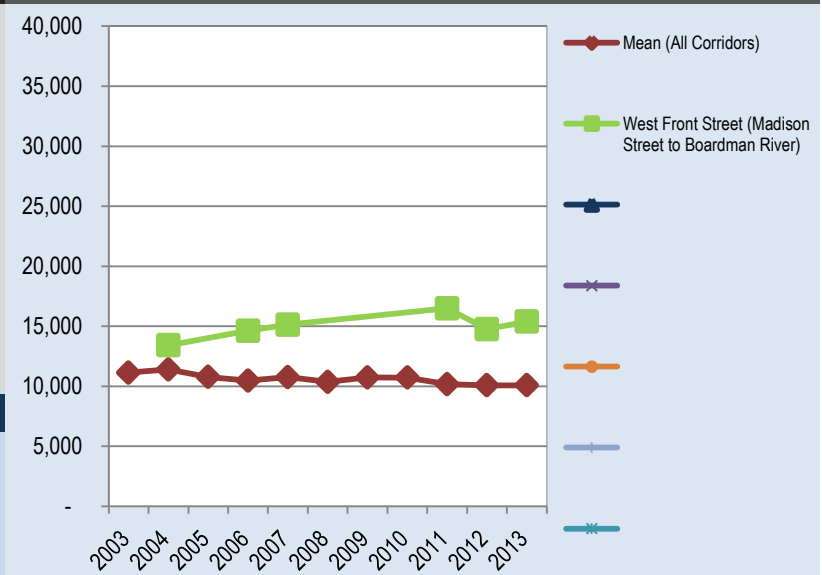
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1b C-1 C-2 D-3 H-1	100%	80%	80%	8.7	69.7	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes 2013 Corridors Master Plan

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): US 31 from 14th Street to City Limits; Division Street (US31) from N Township Limits to Rennie School Road

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City, Charter Township of Garfield

Length: 4.75 miles

Street Classification: Principal Arterial - Other

2013 Traffic Volume(AADT): 26,921 Source: MDOT

Number of Traffic Lanes: 4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

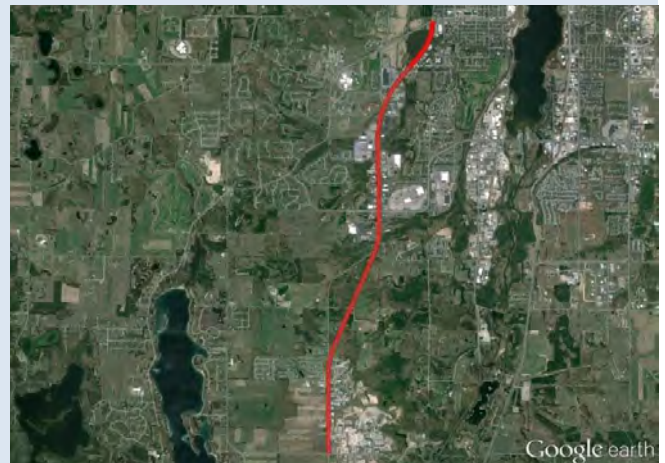
Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks

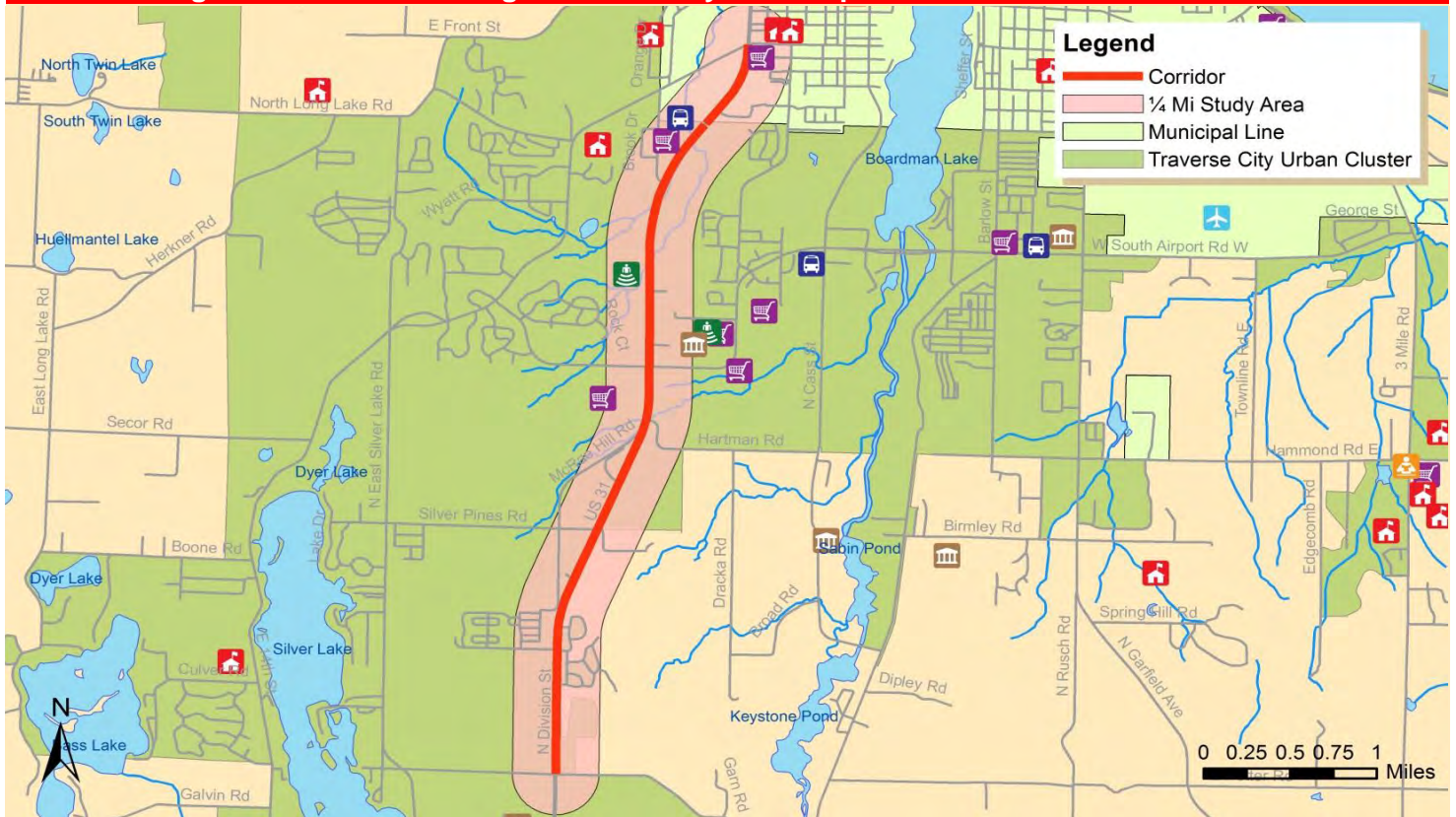
Walk Score: 62



Corridor Overview

The US-31 corridor provides the most direct north-south movement through the core of the Traverse City area. It also provides a critical connection to points south, north and west of the region with downtown Traverse City. The corridor provides access to other significant regional activity centers including the Grand Traverse Commons, the Grand Traverse Mall, Chum's Corners. The corridor is significant because it provides a primary connection beyond the regional limits, a primary north-south route to the regional core, and access to a significant portion of the areas big box retail. Because of these three significant functions, the corridor exhibits high traffic volumes.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City or Charter Township of Garfield)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City US 31 Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	4,435	43,123	69,802
People per Acre	2.71	0.85	0.55
People per Square Mile	1,733	543	353
Total Housing (2010)	2,370	21,631	34,164
Gross Neighborhood Density (per acre)	1.45	0.43	0.27
Study Area Size (Land Cover)			
Acres	1,638.31	50,796.80	126,579.20
Square Miles	2.56	79.37	197.78
Workers Living within Study Area	1,766	17,788	28,068
% with earnings \$1250/month or less	30%	28%	28%
% with earnings \$1251/month to \$3333/month	42%	41%	40%
% with earnings greater than \$3333/month	28%	31%	32%
Jobs Located within Study Area	4,798	36,980	42,477
Job Density (per acre)	2.93	0.73	0.34

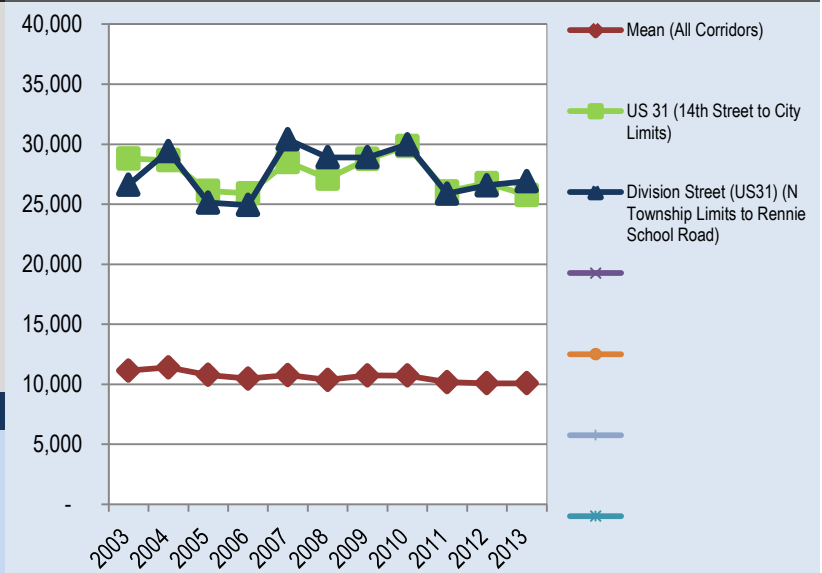
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
City of Traverse City: R-15 C-3	100%	100%	50%	15.0	63.4	45 ft
Charter Township of Garfield: R-1B R-1C C-1 C-1-O C-2 C-3 C-4 MUIBD-G A-1	78%	11%	11%	1.0	76.4	40 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies	(Fiber, Cable, DSL, 4G, Fixed Wireless)

Traffic Counts



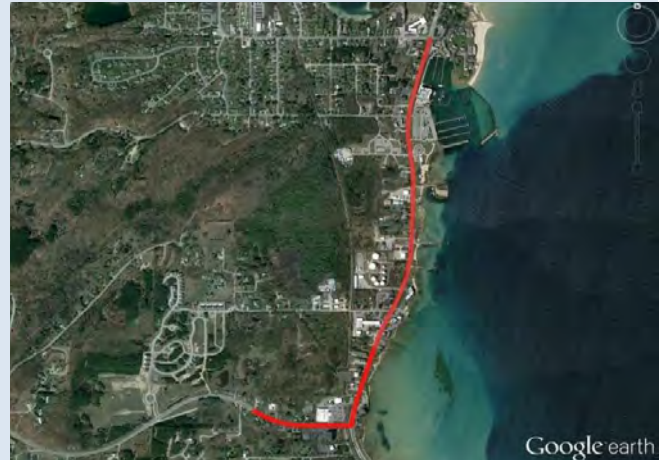
Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues <i>Grand Traverse Cinema, Horizon Cinema</i>	Yes	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s):	West Bay Shore Drive (M22) & E Traverse Highway (M72) from Incochee to south of Carter Road; West Bay Shore Drive (M22) from S Township Limits to Cherry Bend Road
Corridor Classification:	Commercial, Central Business District
Unit(s) of Government:	City of Traverse City, Elmwood Charter Township
Length:	1.62 miles
Street Classification:	Minor Arterial
2013 Traffic Volume(AADT):	29,936 Source: MDOT
Number of Traffic Lanes:	2-4, Bi-Directional Traffic with Turn/Passing Lanes
Parking	Parking Structure(s)
Transit Service:	BATA - Dial-A-Ride
Bike Lane:	Yes
Entertainment Venues:	Yes
Pedestrian Amenities:	Sidewalks, Crosswalks, Mid-Block Crosswalks
Walk Score	63



Corridor Overview

The M-72 corridor transects the regional population center to form the region's major east-west route. It provides access to Traverse City from Leelanau County and northern Benzie County as well as providing a route to the Sleeping Bear National Lakeshore. In the center section, it provides access to the Grand Traverse Bay, numerous businesses, downtown Traverse City. The corridor is significant because it provides a primary connection beyond the regional limits, a primary east-west route through the region, and access to commercial and light industrial areas. M-22 runs from the M-72 intersection north to the north Elmwood Township line. It is the gateway to Traverse City from such Leelanau County communities including Suttons Bay, Northport, and Leland.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City or Elmwood Charter Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City M22/M72 Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,511	43,123	69,802
People per Acre	3.18	0.85	0.55
People per Square Mile	2,032	543	353
Total Housing (2010)	778	21,631	34,164
Gross Neighborhood Density (per acre)	1.63	0.43	0.27
Study Area Size (Land Cover)			
Acres	475.86	50,796.80	126,579.20
Square Miles	0.74	79.37	197.78
Workers Living within Study Area	1,099	17,788	28,068
% with earnings \$1250/month or less	29%	28%	28%
% with earnings \$1251/month to \$3333/month	36%	41%	40%
% with earnings greater than \$3333/month	35%	31%	32%
Jobs Located within Study Area	1,224	36,980	42,477
Job Density (per acre)	2.57	0.73	0.34

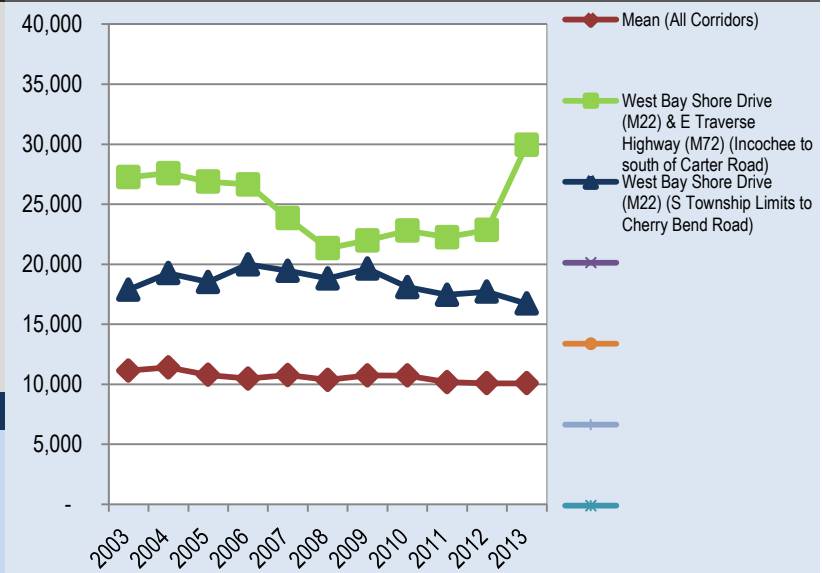
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
City of Traverse City: C-1 C-3	100%	100%	100%	47.5	63.4	45 ft
Elmwood Township: NC GC SC	100%	0%	0%	7.0	7.0	35 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues <i>Great Lakes Children's Museum</i>	Yes	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Munson Avenue (US31) from E. Front Street to Avenue B

Corridor Classification: Commercial

Unit(s) of Government: City of Traverse City

Length: 1.02 miles

Street Classification: Principal Arterial - Other

2013 Traffic Volume(AADT): 23,491 Source: MDOT

Number of Traffic Lanes: 4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

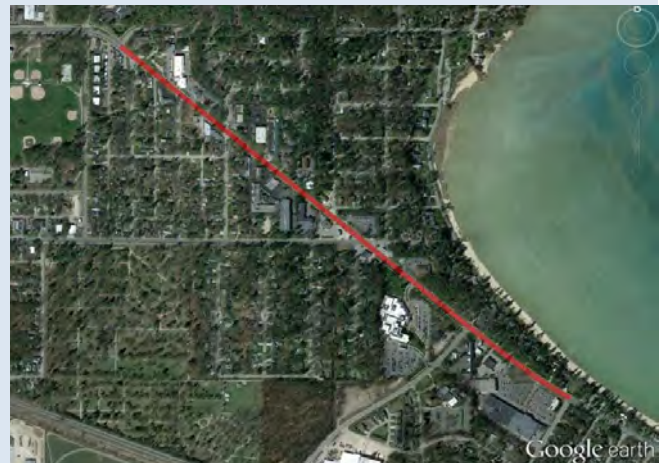
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks

Walk Score: 42



Corridor Overview

Munson Avenue Corridor's US-31 provides the most direct north-south movement through the core of the Traverse City area. It is bounded on the northwest by Northwestern Michigan College and a large strip center and Munson Medical Facility to the southeast. It is lined by retail, office, and transient lodging uses.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (City of Traverse City)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	Yes
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Traverse City Munson Ave Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,966	43,123	69,802
People per Acre	4.85	0.85	0.55
People per Square Mile	3,102	543	353
Total Housing (2010)	973	21,631	34,164
Gross Neighborhood Density (per acre)	2.40	0.43	0.27
Study Area Size (Land Cover)			
Acres	405.67	50,796.80	126,579.20
Square Miles	0.63	79.37	197.78
Workers Living within Study Area	669	17,788	28,068
% with earnings \$1250/month or less	30%	28%	28%
% with earnings \$1251/month to \$3333/month	39%	41%	40%
% with earnings greater than \$3333/month	32%	31%	32%
Jobs Located within Study Area	1,480	36,980	42,477
Job Density (per acre)	3.65	0.73	0.34

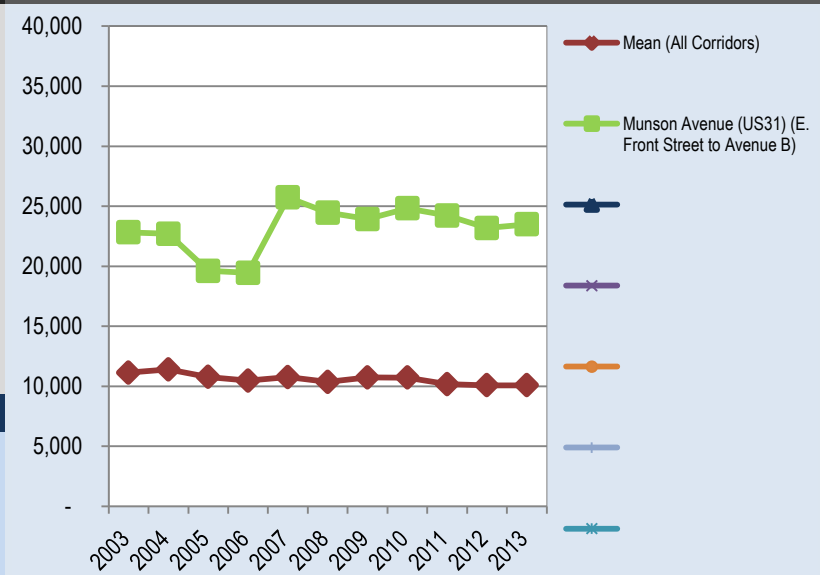
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
HR C-1 C-2 C-3 H-2	100%	100%	100%	29.0	63.4	45 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	Yes

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): M37/US31 from Rennie School Road to Blair Town Hall Road; US31 from Restful Lane to Chums Corners

Corridor Classification: Commercial/Industrial

Unit(s) of Government: Blair Township

Length: 5.16 miles

Street Classification: Principal Arterial - Other

2013 Traffic Volume(AADT): 24,283 Source: MDOT

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

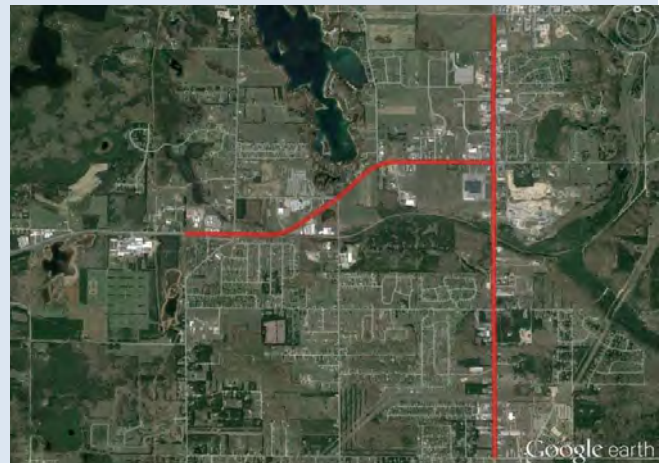
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: None

Walk Score 38



Corridor Overview

This corridor consists of the Chums Corner and Grawn areas linked by M-37 and US-31. Grawn lends itself to being the “downtown area” of the Township. This location is ideal for a hamlet type development. Development is intended to be a mixture of residential, civic, and commercial uses that are clustered together. These uses should be compact and compatible with the rural character of the area. The M-37, US-31, and Chums Corner, provides for commercial and light industrial activity. Landscaping, infrastructure capability, suitable building placement & scale, access management, bulk requirements, shared driveways, parking lot placement and design, and the site development standards are to be used in determining the appropriateness of an use.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Blair Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	Yes
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	Yes

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Blair Chums Corner/Grawn Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	3,465	43,123	69,802
People per Acre	1.99	0.85	0.55
People per Square Mile	1,275	543	353
Total Housing (2010)	1,404	21,631	34,164
Gross Neighborhood Density (per acre)	0.81	0.43	0.27
Study Area Size (Land Cover)			
Acres	1,739.47	50,796.80	126,579.20
Square Miles	2.72	79.37	197.78
Workers Living within Study Area	1,223	17,788	28,068
% with earnings \$1250/month or less	28%	28%	28%
% with earnings \$1251/month to \$3333/month	44%	41%	40%
% with earnings greater than \$3333/month	27%	31%	32%
Jobs Located within Study Area	556	36,980	42,477
Job Density (per acre)	0.32	0.73	0.34

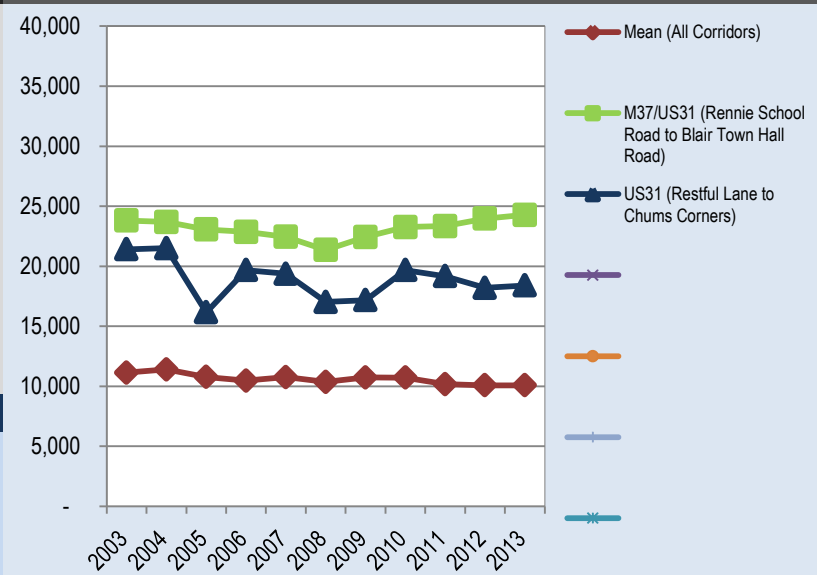
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
RN CM RC V BV IS	83%	33%	33%	0.2	41.5	55 ft

Infrastructure

Public Utilities		
Sewer	Limited	Limited Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



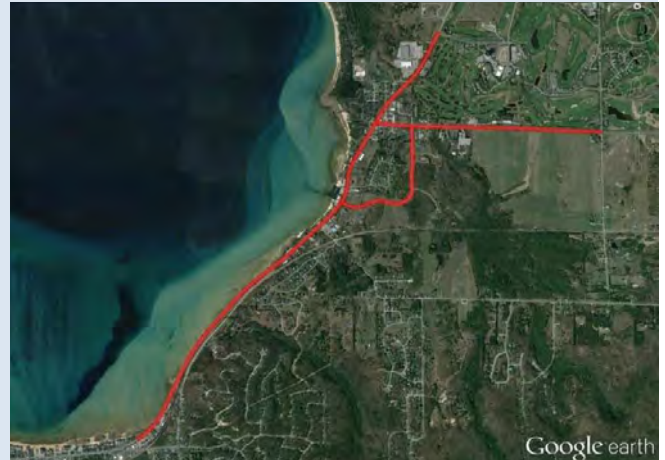
Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
Wuefel Park		Public Art Installations	Yes
		Wayfinding	No
		Pedestrian Connections	No

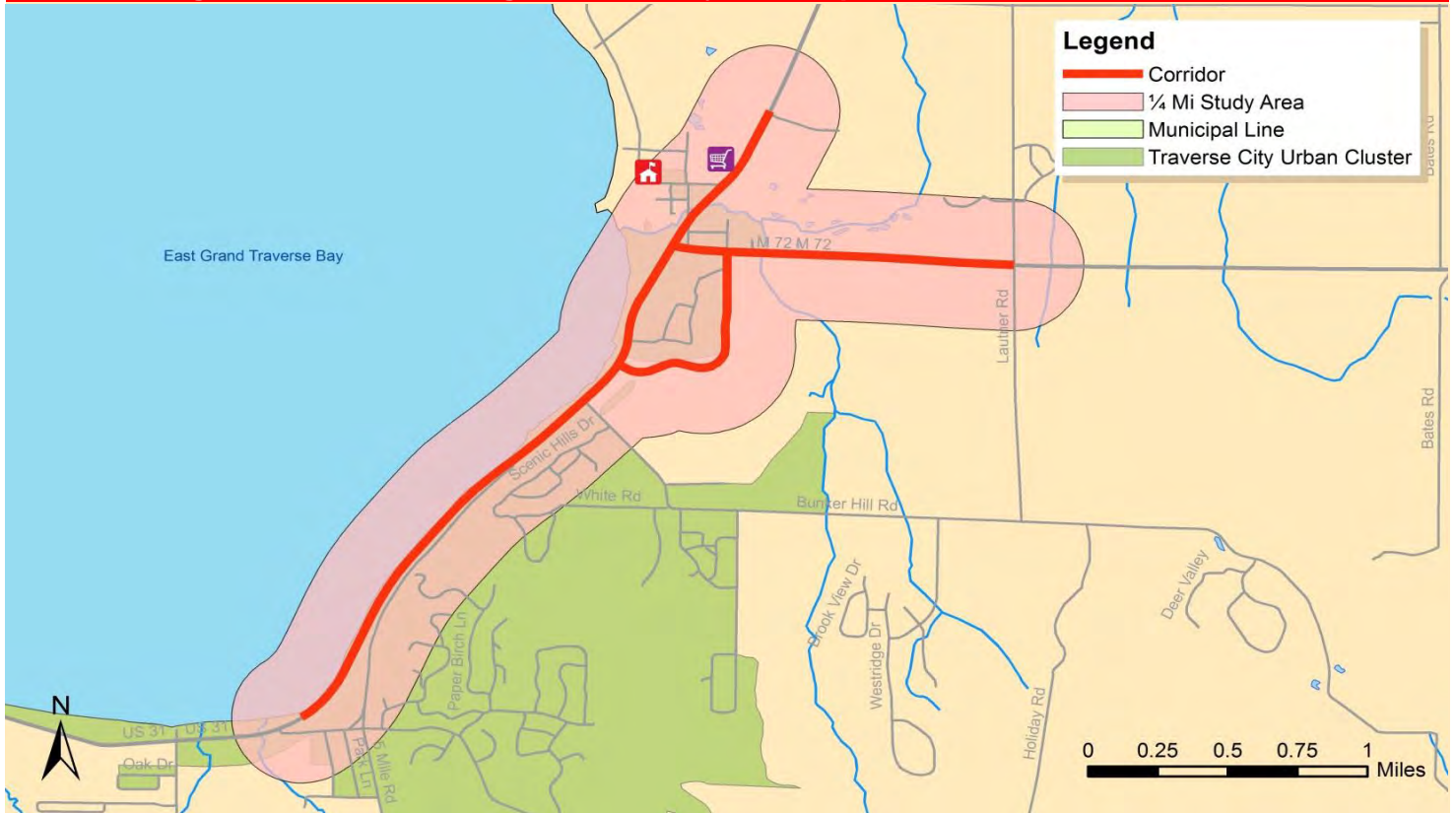
Corridor Street Name(s):	Munson Avenue (US31) from S Township Limits to Grand Traverse Resort Village Boulevard; M72 from US31 to Lautner Road; Mt Hope Road from US31 to M72
Corridor Classification:	Central Business District
Unit(s) of Government:	Acme Township
Length:	4.95 miles
Street Classification:	Principal Arterial - Other, Local
2013 Traffic Volume(AADT):	26,742 Source: MDOT, N/A
Number of Traffic Lanes:	2-4, Bi-Directional Traffic with Turn/Passing Lanes
Parking	No Street Parking
Transit Service:	BATA - Fixed Route
Bike Lane:	Yes
Entertainment Venues:	No
Pedestrian Amenities:	Sidewalks, Crosswalks
Walk Score	32



Corridor Overview

The US-31/M72 Acme Shores Corridor provides the most direct north-south and east west movement through the core of the Traverse City area. The corridor provides access to other significant regional activity centers including the Grand Traverse Resort, Turtle Creek Casino, and the new Grand Traverse Town Center. It also provides a direct connection to the interstate system to the east via I-75 in Graying and south to US-131.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Acme Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Acme US31/M72 Acme Shores Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	2,402	43,123	69,802
People per Acre	1.91	0.85	0.55
People per Square Mile	1,224	543	353
Total Housing (2010)	1,556	21,631	34,164
Gross Neighborhood Density (per acre)	1.24	0.43	0.27
Study Area Size (Land Cover)			
Acres	1,255.62	50,796.80	126,579.20
Square Miles	1.96	79.37	197.78
Workers Living within Study Area			
% with earnings \$1250/month or less	27%	28%	28%
% with earnings \$1251/month to \$3333/month	40%	41%	40%
% with earnings greater than \$3333/month	33%	31%	32%
Jobs Located within Study Area			
Job Density (per acre)	0.73	0.73	0.34

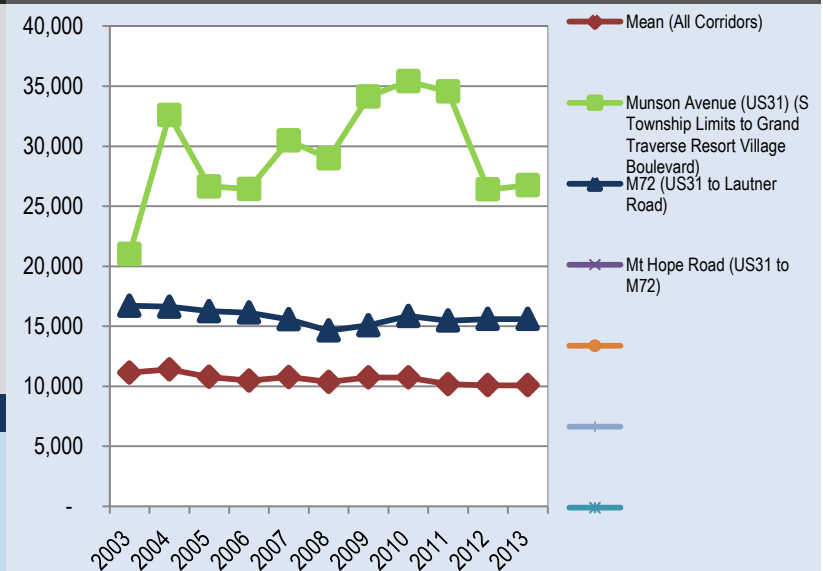
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
B-1P B-1S B-2 B-3 R-2 R-3	67%	0%	17%	2.9	25.3	40 ft

Infrastructure

Public Utilities		
Sewer	Limited	Limited Additional Capacity
Water	Limited	Limited Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts



Policy

Downtown Plan	Yes
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	Yes
		Public Art Installations	No
		Wayfinding	Yes
		Pedestrian Connections	Yes

Corridor Street Name(s): Munson Avenue (US31) from W Township Limits to N Township Limits; 3 Mile Road from US31 to Aero Park Drive

Corridor Classification: Commercial

Unit(s) of Government: East Bay Charter Township

Length: 2.29 miles

Street Classification: Principal Arterial - Other, Minor Arterial

2013 Traffic Volume(AADT): 25,505 Source: MDOT, N/A

Number of Traffic Lanes: 4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

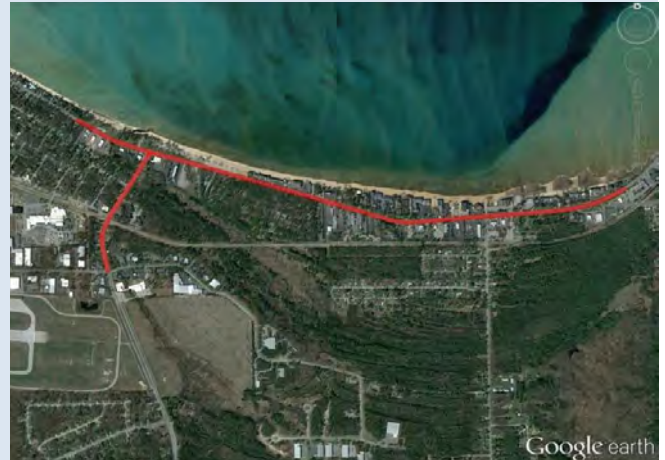
Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

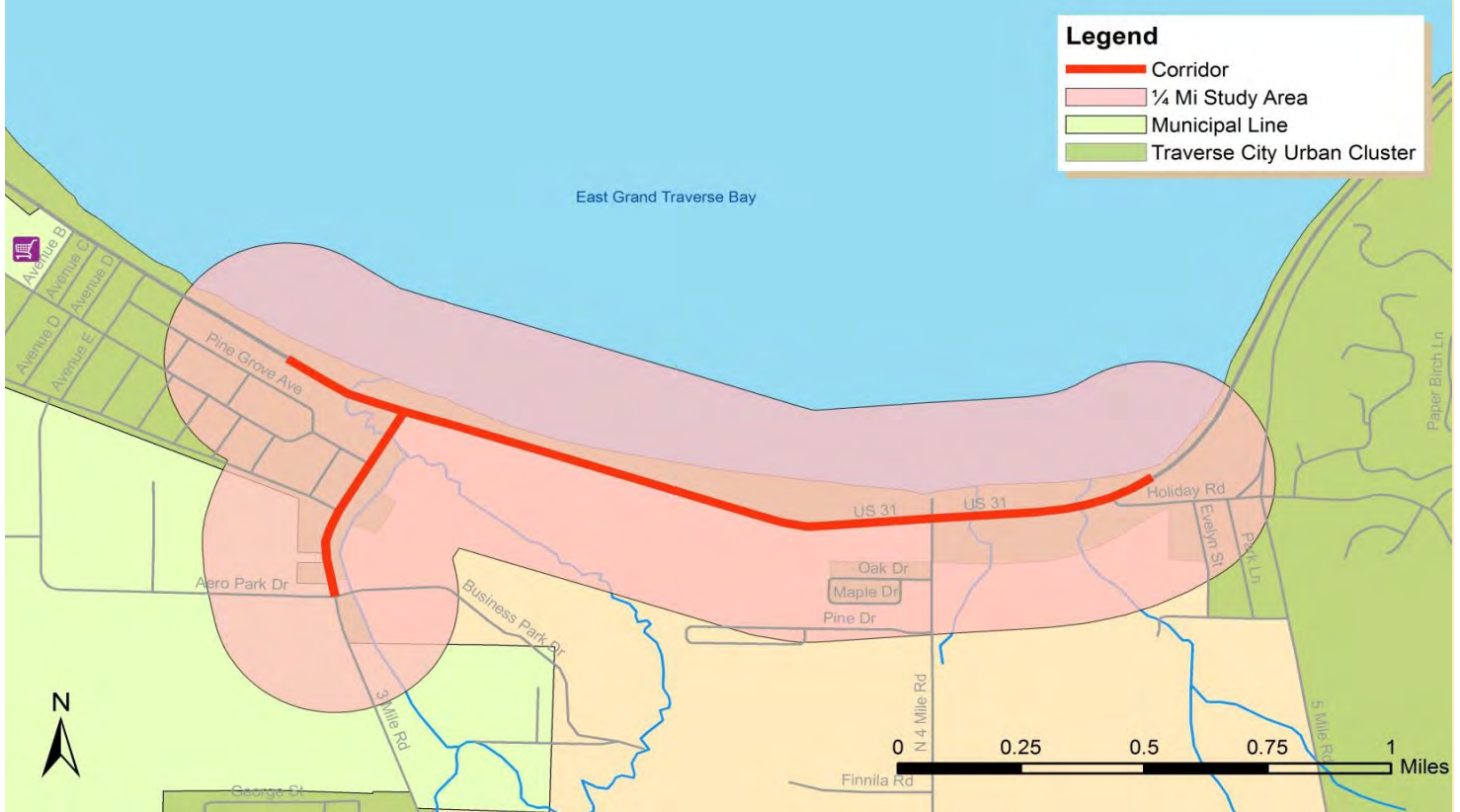
Walk Score: 29



Corridor Overview

East Bay Miracle Mile Corridor's US-31 provides the most direct north-south and east west movement through the core of the Traverse City area. The corridor provides access to downtown Traverse City and other significant regional activity centers including the Grand Traverse Resort. It also contains a significant portion of the Traverse City areas waterfront transient lodging properties situated along East Bay. 3 Mile Road provides a localized north-south movement from Garfield Road to US-31. There are no direct connections to significant traffic generators, though the corridor provides access to Cherry Capital Airport via S. Airport Road.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (East Bay Charter Township)

Growth & Investment Strategy	No	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	East Bay Miracle Mile Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,652	43,123	69,802
People per Acre	2.51	0.85	0.55
People per Square Mile	1,608	543	353
Total Housing (2010)	982	21,631	34,164
Gross Neighborhood Density (per acre)	1.49	0.43	0.27
Study Area Size (Land Cover)			
Acres	657.34	50,796.80	126,579.20
Square Miles	1.03	79.37	197.78
Workers Living within Study Area	682	17,788	28,068
% with earnings \$1250/month or less	28%	28%	28%
% with earnings \$1251/month to \$3333/month	45%	41%	40%
% with earnings greater than \$3333/month	27%	31%	32%
Jobs Located within Study Area	3,150	36,980	42,477
Job Density (per acre)	4.79	0.73	0.34

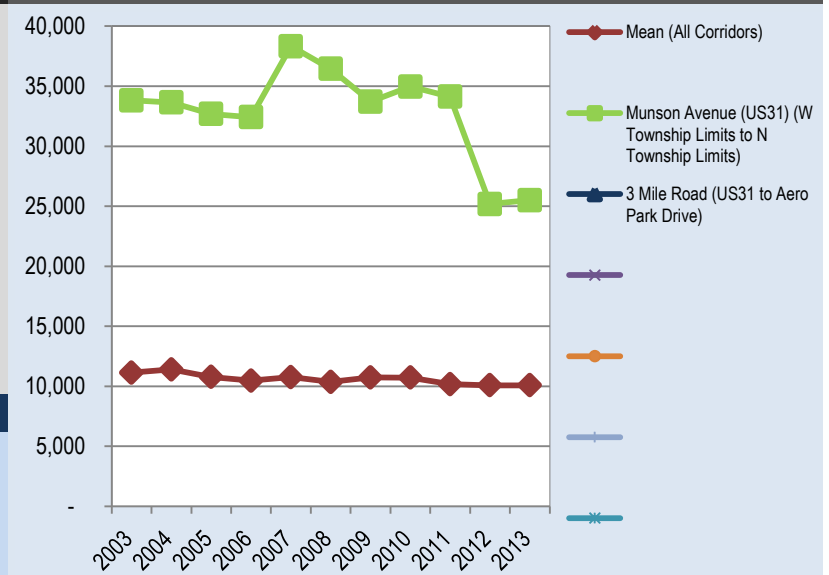
Zoning

District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
LDR RB PO	33%	0%	33%	3.0	49.5	50 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband		
	Yes - 5 Technologies	(Fiber, Cable, DSL, 4G, Fixed Wireless)

Traffic Counts



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Hammond Road (C660) from Edgcomb Road to Chartwell Drive; 3 Mile Road from Vanderlip Road to TCAPS

Corridor Classification: Commercial/Industrial

Unit(s) of Government: East Bay Charter Township

Length: 1.48 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

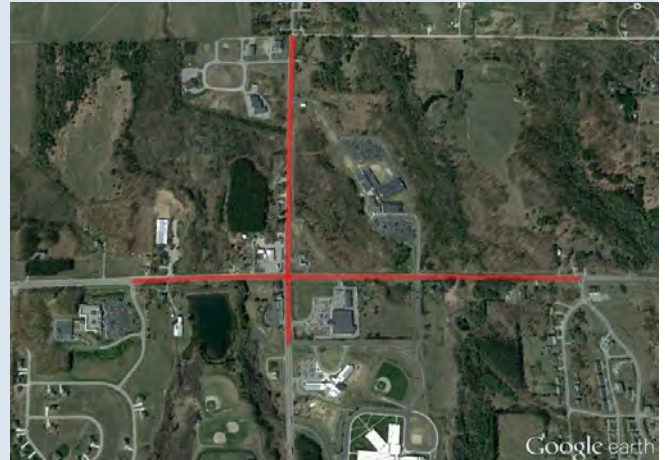
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: Sidewalks, Crosswalks

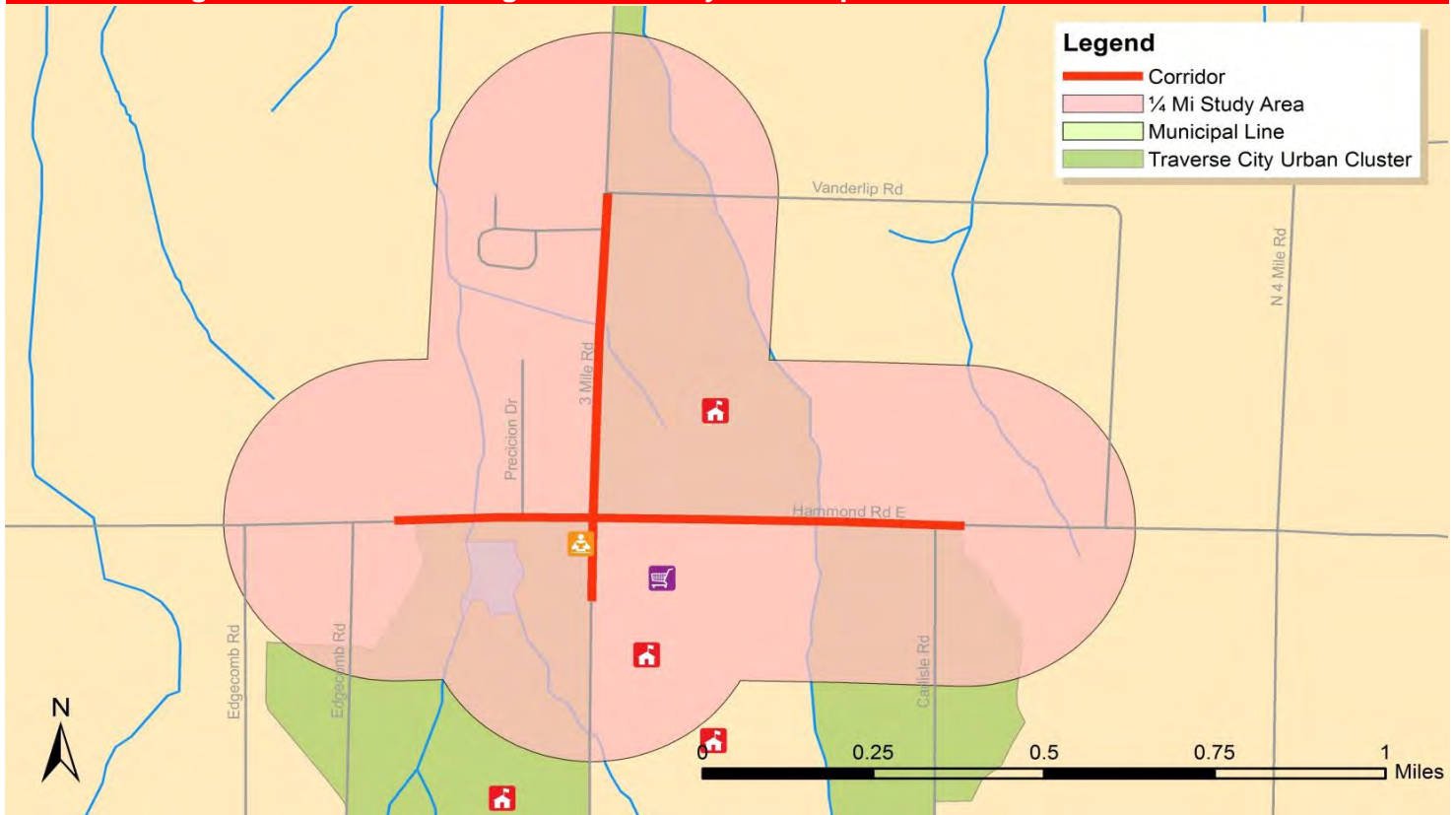
Walk Score: 60



Corridor Overview

The 3-Mile & Hammond Corridor facilitates a more regional east-west movement. Because it does not provide immediate access to a regionally significant center, Hammond Road is relied on primarily to provide access from less populated residential and local commercial centers to other corridors. 3 Mile Road provides a localized north-south movement from Garfield Road to US-31. There are no direct connections to significant traffic generators, though the corridor provides access to Cherry Capital Airport via S. Airport Road. Other than this connection, 3 Mile Road's primary function is to provide access from commercial and light industrial areas.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (East Bay Charter Township)

Growth & Investment Strategy	No	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	East Bay 3 Mile & Hammond Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	856	43,123	69,802
People per Acre	1.53	0.85	0.55
People per Square Mile	980	543	353
Total Housing (2010)	335	21,631	34,164
Gross Neighborhood Density (per acre)	0.60	0.43	0.27
Study Area Size (Land Cover)			
Acres	559.24	50,796.80	126,579.20
Square Miles	0.87	79.37	197.78
Workers Living within Study Area	355	17,788	28,068
% with earnings \$1250/month or less	27%	28%	28%
% with earnings \$1251/month to \$3333/month	41%	41%	40%
% with earnings greater than \$3333/month	32%	31%	32%
Jobs Located within Study Area	203	36,980	42,477
Job Density (per acre)	0.36	0.73	0.34

Zoning

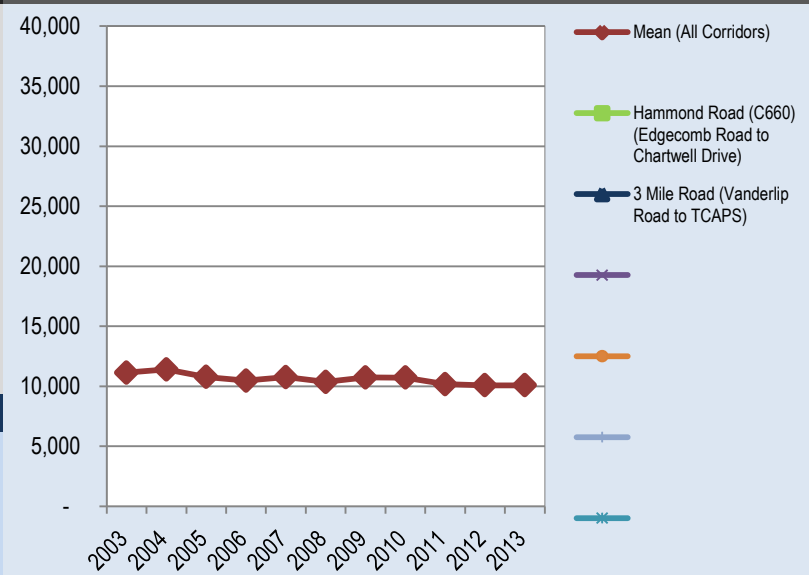
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
MDR VC IND	67%	67%	33%	5.0	8.0	50 ft

Infrastructure

Public Utilities		
Sewer	Yes	<i>Additional Capacity</i>
Water	Yes	<i>Additional Capacity</i>
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies	
<i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>		

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	No
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Cherry Bend Road from Avondale Lane to M22

Corridor Classification: Commercial

Unit(s) of Government: Elmwood Charter Township

Length: 0.77 miles

Street Classification: Major Collector

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking: No Street Parking

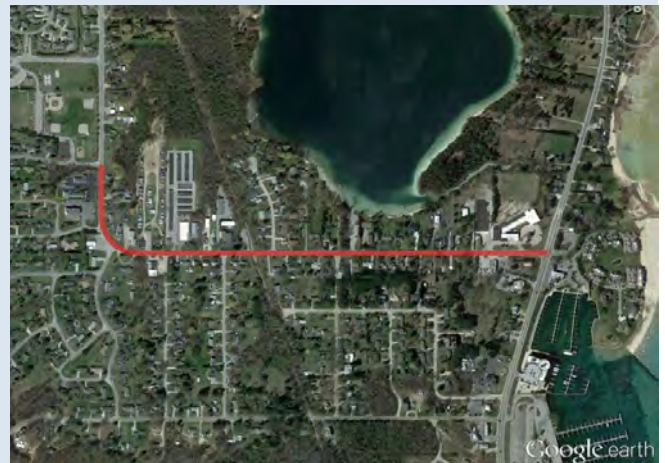
Transit Service: BATA - Dial-A-Ride

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: None

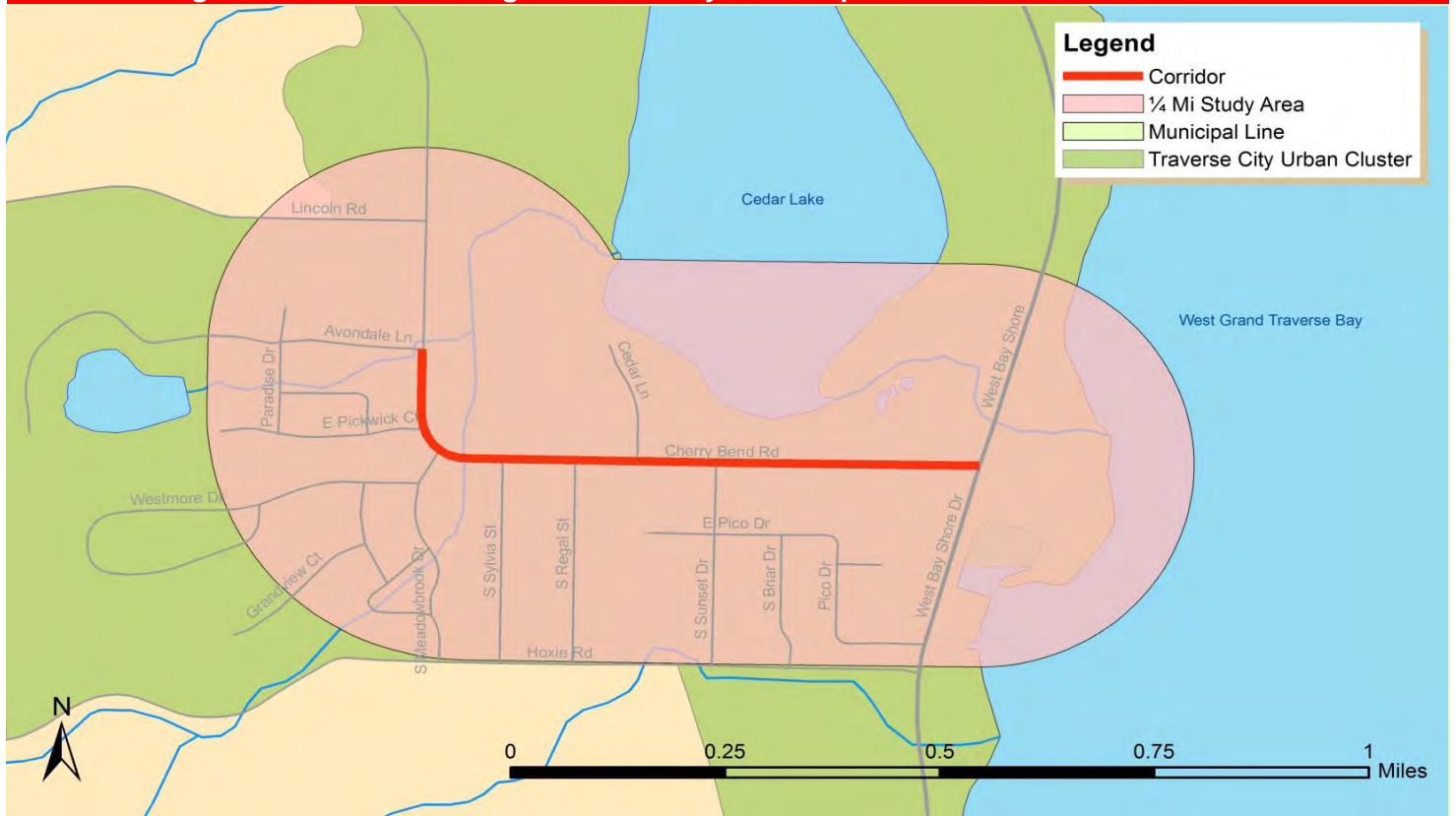
Walk Score: 38



Corridor Overview

The Cherry Bend Corridor consists of light commercial uses compatible with the adjoining residential uses. Commercial uses are characterized by low volume sales and low volume vehicular traffic requiring minimal off-street parking. The corridor is bisected by the Leelanau Trail, offering a non-motorized connection between Traverse City and Suttons Bay.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Elmwood Charter Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Elmwood Cherry Bend Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,200	43,123	69,802
People per Acre	3.72	0.85	0.55
People per Square Mile	2,382	543	353
Total Housing (2010)	660	21,631	34,164
Gross Neighborhood Density (per acre)	2.05	0.43	0.27
Study Area Size (Land Cover)			
Acres	322.48	50,796.80	126,579.20
Square Miles	0.50	79.37	197.78
Workers Living within Study Area	403	17,788	28,068
% with earnings \$1250/month or less	25%	28%	28%
% with earnings \$1251/month to \$3333/month	40%	41%	40%
% with earnings greater than \$3333/month	35%	31%	32%
Jobs Located within Study Area	311	36,980	42,477
Job Density (per acre)	0.96	0.73	0.34

Zoning

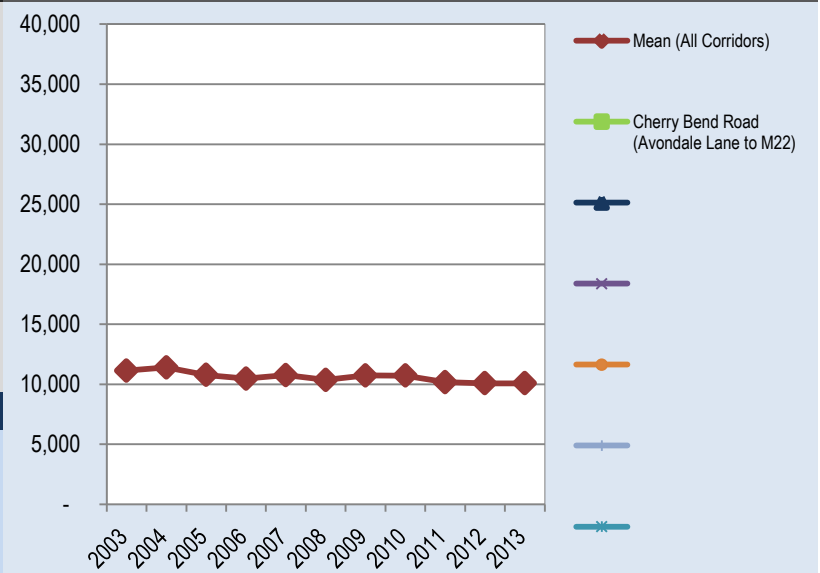
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1 NC	100%	0%	0%	3.5	7.0	35 ft

Infrastructure

Public Utilities		
Sewer	Yes	<i>Additional Capacity</i>
Water	Limited	<i>Limited Additional Capacity</i>
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies <i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>	

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	No
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): South Airport Road from Sam's Club Service Drive to Townline Road

Corridor Classification: Commercial

Unit(s) of Government: Charter Township of Garfield

Length: 4.30 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2-4, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

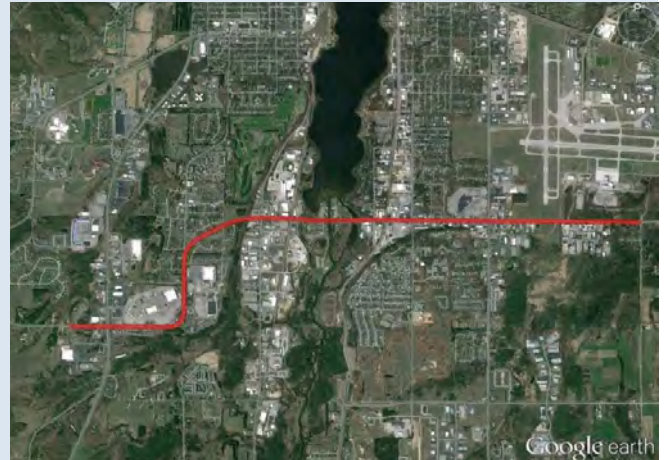
Transit Service: BATA - Fixed Route

Bike Lane: No

Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks

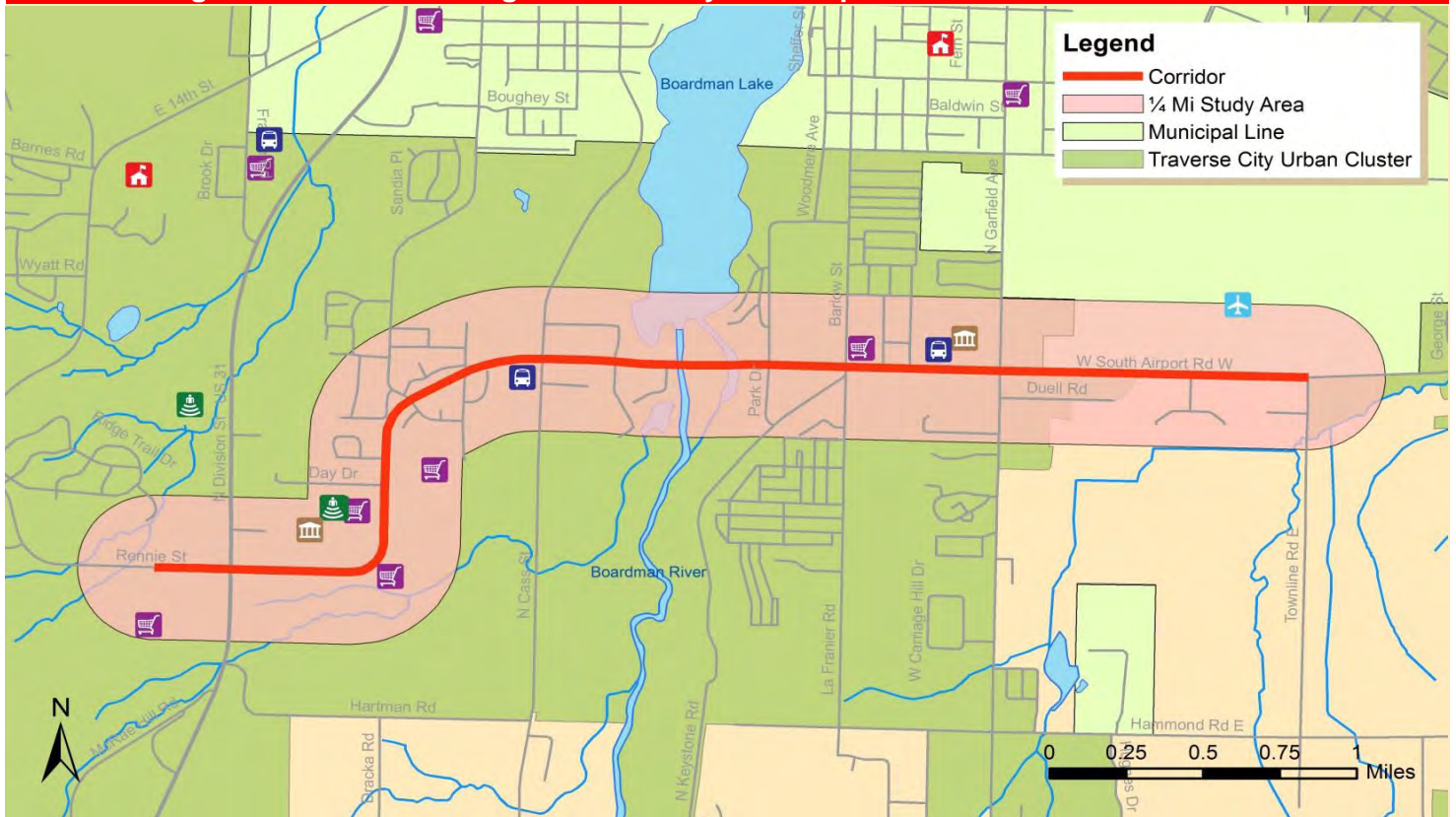
Walk Score: 65



Corridor Overview

The South Airport Corridor provides significant east-west movements in the core population center. However, unlike the M-72 corridor it does not provide direct access to points outside of the region. On its east end, the corridor provides direct access to the Cherry Capital Airport. On the west, it's situated next to and provides access to the Grand Traverse Mall. The corridor forms a crucial link across the Boardman River between these two regionally significant centers. In addition, South Airport Road provides local access primarily to businesses in between the mall and the airport while serving through movements from residential areas on its extreme east and west termini.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Charter Township of Garfield)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Garfield South Airport Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	4,210	43,123	69,802
People per Acre	2.86	0.85	0.55
People per Square Mile	1,830	543	353
Total Housing (2010)	2,192	21,631	34,164
Gross Neighborhood Density (per acre)	1.49	0.43	0.27
Study Area Size (Land Cover)			
Acres	1,472.35	50,796.80	126,579.20
Square Miles	2.30	79.37	197.78
Workers Living within Study Area	1,369	17,788	28,068
% with earnings \$1250/month or less	33%	28%	28%
% with earnings \$1251/month to \$3333/month	44%	41%	40%
% with earnings greater than \$3333/month	23%	31%	32%
Jobs Located within Study Area	7,776	36,980	42,477
Job Density (per acre)	5.28	0.73	0.34

Zoning

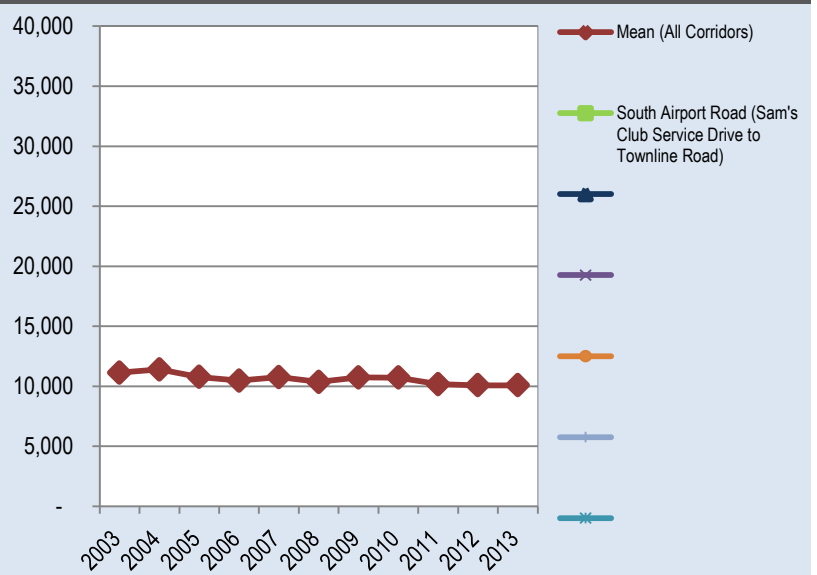
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1A R-1B R-1M R-1MH C-1 C-1-O C-2 C-3 C-4 MUIBD-G MUIBD-L	73%	9%	9%	1.0	76.4	40 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband		
	Yes - 5 Technologies	(Fiber, Cable, DSL, 4G, Fixed Wireless)

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

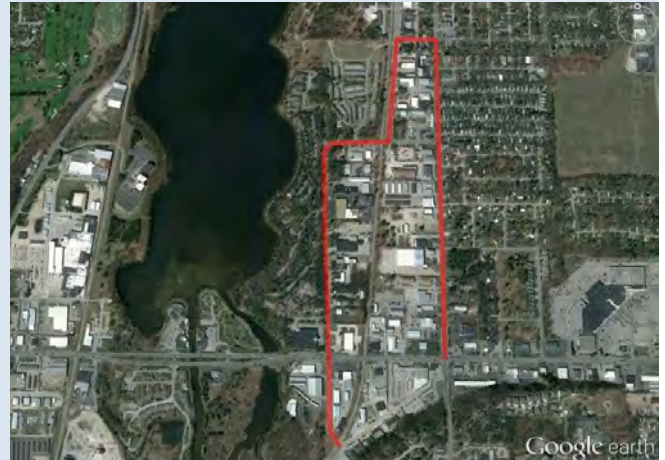
Theaters/Entertainment Venues <i>Grand Traverse Cinema</i>	Yes	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Corridor Street Name(s): Park Drive/Premier Street/Woodmere Avenue/Boon Street/Barlow Street from Keystone Road to South Airport Road

Corridor Classification: Commercial/Industrial
Unit(s) of Government: Charter Township of Garfield

Length: 1.93 miles
Street Classification: Major Collector
2013 Traffic Volume(AADT): NA
Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

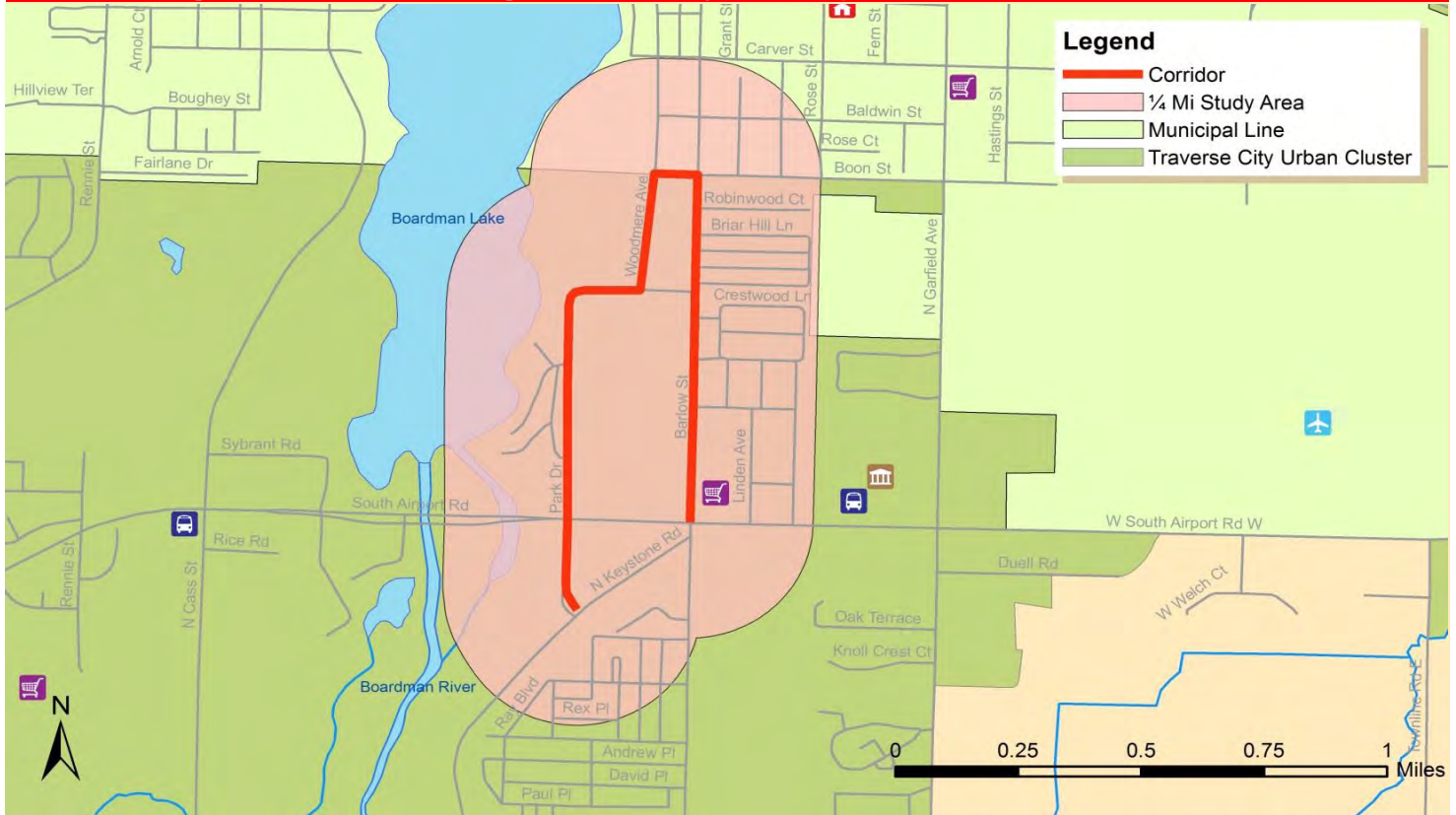
Parking: No Street Parking
Transit Service: BATA - Fixed Route
Bike Lane: Yes
Entertainment Venues: No
Pedestrian Amenities: Sidewalks, Crosswalks
Walk Score: 49



Corridor Overview

The Barlow Park Corridor contains a significant industrial and commercial area surrounded by higher density residential to the east and west.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Charter Township of Garfield)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Garfield Barlow Park Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	4,193	43,123	69,802
People per Acre	7.58	0.85	0.55
People per Square Mile	4,854	543	353
Total Housing (2010)	2,338	21,631	34,164
Gross Neighborhood Density (per acre)	4.23	0.43	0.27
Study Area Size (Land Cover)			
Acres	552.84	50,796.80	126,579.20
Square Miles	0.86	79.37	197.78
Workers Living within Study Area	1,600	17,788	28,068
% with earnings \$1250/month or less	34%	28%	28%
% with earnings \$1251/month to \$3333/month	43%	41%	40%
% with earnings greater than \$3333/month	23%	31%	32%
Jobs Located within Study Area	1,989	36,980	42,477
Job Density (per acre)	3.60	0.73	0.34

Zoning

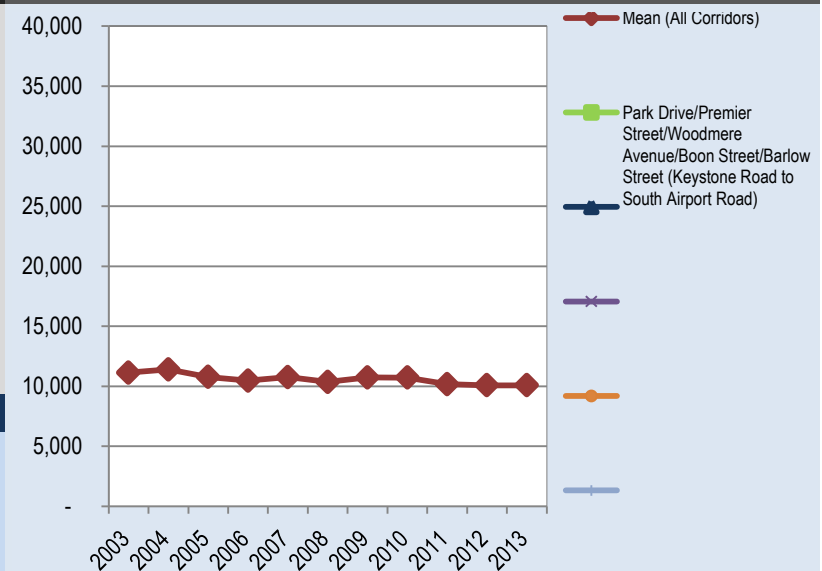
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
R-1M C-1 C-2 MUIBD-G	75%	0%	0%	4.4	51.9	40 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies	
<i>(Fiber, Cable, DSL, 4G, Fixed Wireless)</i>		

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	No

Corridor Street Name(s): Cass Road from N Township Limits to Railroad Crossing

Corridor Classification: Commercial/Industrial

Unit(s) of Government: Charter Township of Garfield

Length: 2.53 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): NA

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking: No Street Parking

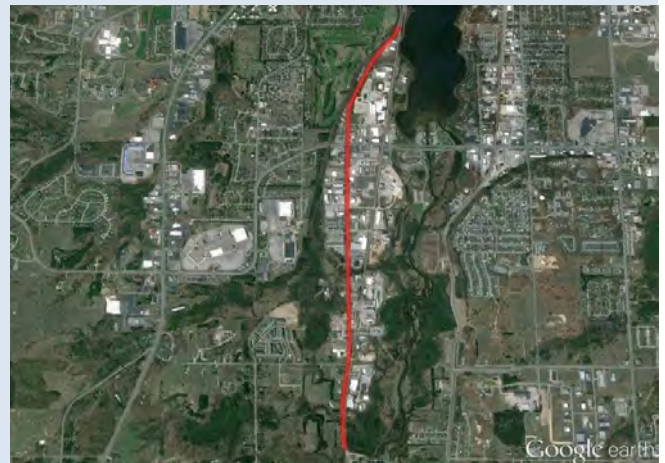
Transit Service: BATA - Dial-A-Ride

Bike Lane: No

Entertainment Venues: No

Pedestrian Amenities: None

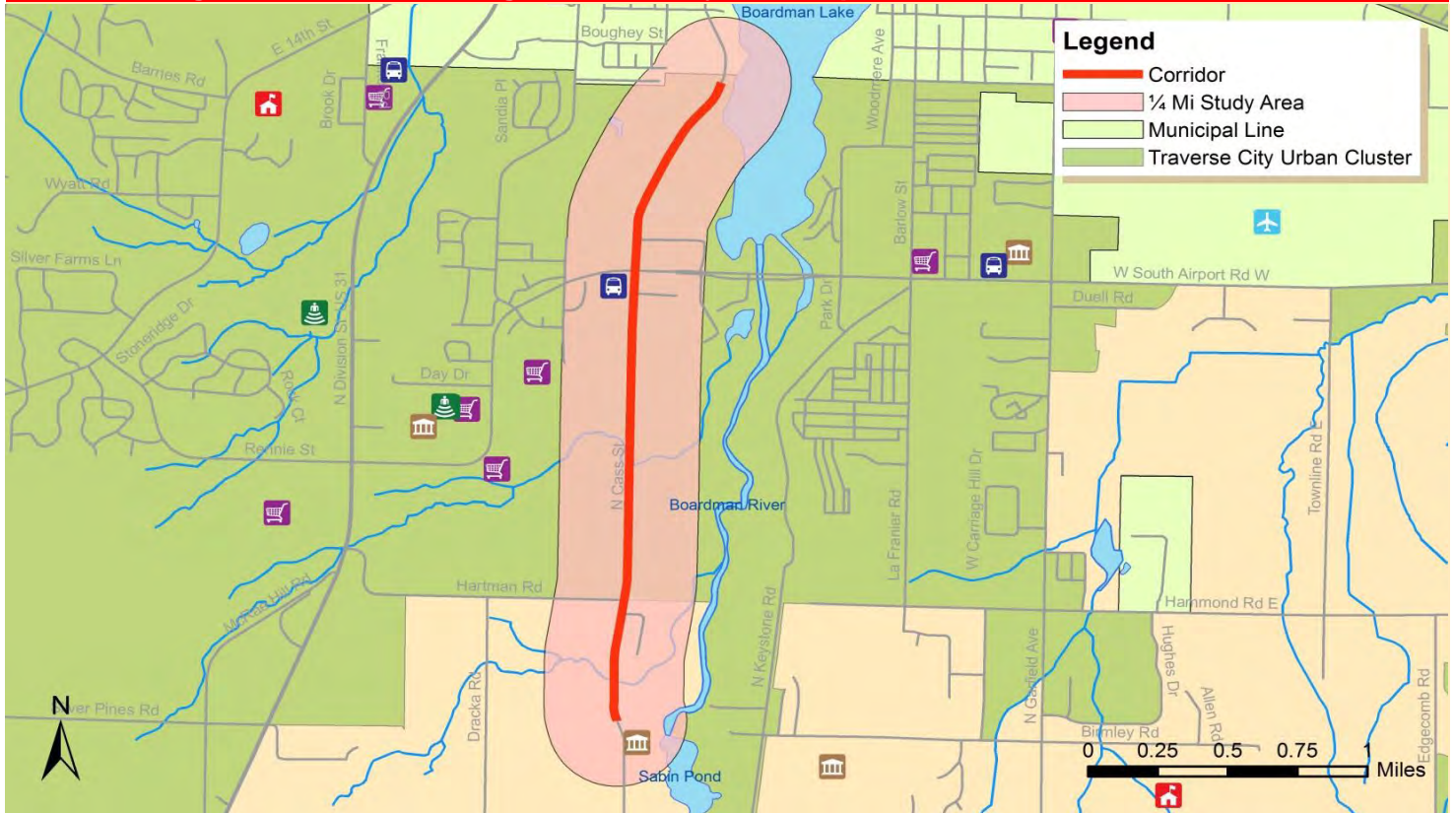
Walk Score: 46



Corridor Overview

The Cass Road Corridor contains significant industrial and commercial activity including the Sara Lee Food Production Facility, a major area employer, on the north end. It is bisected by S. Airport Road connecting the corridor with major regional routes.

Corridor Segment and Surrounding 1/4 Mile Study Area Map



Economic Development

Community policies or activities assisting economic development (Charter Township of Garfield)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	Yes
Publish Development Guide	Yes	Capital Improvement Plan	No

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Census Data	Corridor Segment	G&I Core Place	G&I Area
	Garfield Cass Road Corridor	City of Traverse City, Garfield, East Bay, Greilickville CDP	Traverse City & Surrounding Townships
Total Population (2010)	1,522	43,123	69,802
People per Acre	1.74	0.85	0.55
People per Square Mile	1,111	543	353
Total Housing (2010)	876	21,631	34,164
Gross Neighborhood Density (per acre)	1.00	0.43	0.27
Study Area Size (Land Cover)			
Acres	876.76	50,796.80	126,579.20
Square Miles	1.37	79.37	197.78
Workers Living within Study Area			
% with earnings \$1250/month or less	35%	28%	28%
% with earnings \$1251/month to \$3333/month	43%	41%	40%
% with earnings greater than \$3333/month	22%	31%	32%
Jobs Located within Study Area			
Job Density (per acre)	4.94	0.73	0.34

Zoning

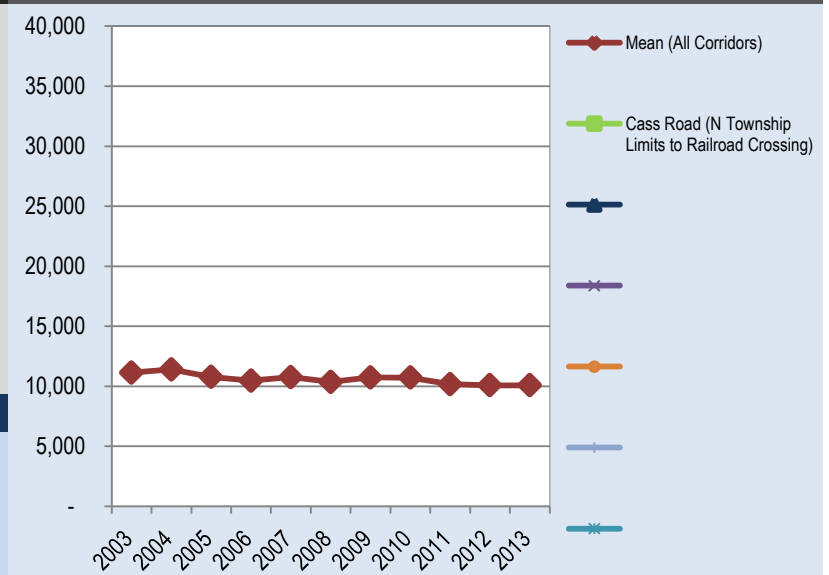
District(s)	% of Districts That Allow Residential Use	% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building Height
				Lowest Density District	Highest Density District	
C-1 C-2 MUIBD-G MUIBD-L	50%	0%	0%	4.4	51.9	40 ft

Infrastructure

Public Utilities		
Sewer	Yes	Additional Capacity
Water	Yes	Additional Capacity
Energy Utilities		
Underground Electric	No	
Renewable Energy Production	No	
Natural Gas	Yes	
Broadband	Yes - 5 Technologies (Fiber, Cable, DSL, 4G, Fixed Wireless)	

Traffic Counts

(Data Unavailable for Corridor)



Policy

Downtown Plan	No
Corridor Improvement Plan	No

Placemaking Elements

Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	No	Pocket Parks	No
		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	No

Growth & Investment Area Study

Census Class Definitions

2010 Census Urban and Rural Classification and Urban Area Criteria

The Census Bureau's urban-rural classification is fundamentally a delineation of geographical areas, identifying both individual urban areas and the rural areas of the nation. The Census Bureau's urban areas represent densely developed territory, and encompass residential, commercial, and other non-residential urban land uses.

For the 2010 Census, an urban area will comprise a densely settled core of census tracts and/or census blocks that meet minimum population density requirements, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,500 people, at least 1,500 of which reside outside institutional group quarters. The Census Bureau identifies two types of urban areas:

Urbanized Areas (UAs) of 50,000 or more people;

Urban Clusters (UCs) of at least 2,500 and less than 50,000 people.

"Rural" encompasses all population, housing, and territory not included within an urban area.

Source: <https://www.census.gov/geo/reference/ua/urban-rural-2010.html>

About Metropolitan and Micropolitan Statistical Areas

The United States Office of Management and Budget (OMB) delineates metropolitan and micropolitan statistical areas according to published standards that are applied to Census Bureau data. The general concept of a metropolitan or micropolitan statistical area is that of a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core. Currently delineated metropolitan and micropolitan statistical areas are based on application of 2010 standards [PDF] (which appeared in the Federal Register on June 2010) to 2010 Census and 2006-2010 American Community Survey data. Current metropolitan and micropolitan statistical area delineations were announced by OMB effective February 2013.

Standard delineations of metropolitan areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation "standard metropolitan area" (SMA). The term was changed to "standard metropolitan statistical area" (SMSA) in 1959, and to "metropolitan statistical area" (MSA) in 1983. The term "metropolitan area" (MA) was adopted in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). The term "core based statistical area" (CBSA) became effective in 2000 and refers collectively to metropolitan and micropolitan statistical areas.

OMB has been responsible for the official metropolitan areas since they were first delineated, except for the period 1977 to 1981, when they were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce. The standards for delineating metropolitan areas were modified in 1958, 1971, 1975, 1980, 1990, 2000, and 2010.

Delineating Metropolitan and Micropolitan Statistical Areas

The 2010 standards provide that each CBSA must contain at least one urban area of 10,000 or more population. Each metropolitan statistical area must have at least one urbanized area of 50,000 or more inhabitants. Each micropolitan statistical area must have at least one urban cluster of at least 10,000 but less than 50,000 population.

Under the standards, the county (or counties) in which at least 50 percent of the population resides within urban areas of 10,000 or more population, or that contain at least 5,000 people residing within a single urban area of 10,000 or more population, is identified as a "central county" (counties). Additional "outlying counties" are included in the CBSA if they meet specified requirements of commuting to or from the central counties. Counties or equiva-

lent entities form the geographic "building blocks" for metropolitan and micropolitan statistical areas throughout the United States and Puerto Rico.

If specified criteria are met, a metropolitan statistical area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as "metropolitan divisions."

As of February 2013, there are 381 metropolitan statistical areas and 536 micropolitan statistical areas in the United States. In addition, there are 7 metropolitan statistical areas and 5 micropolitan statistical areas in Puerto Rico.

Source: <http://www.census.gov/population/metro/about/>

Land Area

Data Source

2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

Traffic Count Data

AADT Data sources

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

Corridor Study Areas

Population Density

Population Density information contain in this report is based on the 2010 US Census and is calculated by taking the total number of individual as reported for the geographic area reported and dividing it by the number of miles or acres of land area.

Max Dwelling Density for Districts in Corridors

Max Dwelling Density for Districts in Corridors is based on parcel or site density. Used by builders/developers and controlled by the zoning ordinance within jurisdictions that have zoning, site density is determined by the total dwelling/housing units divided by the total parcel size. For determining Max Dwelling Density, the zoning ordinance was reviewed for current permitted maximum site density. In cases were no specific maximum dwelling limits is explicitly stated, a review of the ordinance was undertaken and a theoretical maximum was calculated taking into account maximum coverages, parking requirements, buffer areas, building height and story limits, and any other code restricting dwelling permitting. The actual permissible density would be based on the specific site constraints and determined by completion of a land use permit process conducted under the respected zoning authority. **The calculated theoretical maximums contained in this report should in no way be relied upon for the determination of actual permissible site dwelling density.**

Gross Neighborhood Density

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

Job & Worker Density

Job Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Job count data by location is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

Worker Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Worker count data (those individuals currently employed and residing in the area of study) is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

Retail Sales

Data Source

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

Whitepaper Statement from Esri

Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Esri computes Market Potential by combining 2011 Tapestry™ Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

$$\text{Expected Number of Consumers} = \sum_{n=1}^{65} (\text{Count}_n \times \text{Consumption Rate}_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$\text{Local Consumption Rate} = \frac{\text{Expected Number of Consumers}}{\text{Base Count}}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\text{Market Potential Index} = \frac{\text{Local Consumption Rate}}{\text{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The a or h following the five-digit product code denotes a consumer base of adults or households, respectively.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

Retail Classification:

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

For the purposes of determining the *Retail Classification*, Sales, Potential Sales, and Leakage are taken from the Growth & Investment Area. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

Seasonal Housing:

The Seasonal Housing percentage is determined by the dividing the Data Dictionary Reference Name H0050006 "For seasonal, recreational, or occasional use" of the H5 Table "Vacancy Status, Universe: Vacant housing units Total:" of the 2010 Census Summary File 1 by the total number of Housing Units.

The U.S. Census Bureau's 2010 Census Summary File 1. Summary File 1 tables provide the most detailed counts available so far from the 2010 Census, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. The statistics are available for a variety of geographic areas, with most tables available down to the block or census tract level.

Summary File 1 (SF 1) contains the data compiled from the questions asked of all people and about every housing unit. Population items include sex, age, race, Hispanic or Latino origin, household relationship, household type, household size, family type, family size, and group quarters. Housing items include occupancy status, vacancy status, and tenure (whether a housing unit is owner-occupied or renter-occupied).

There are 177 population tables (identified with a "P") and 58 housing tables (identified with an "H") shown down to the block level; 82 population tables (identified with a "PCT") and 4 housing tables (identified with an "HCT") shown down to the census tract level; and 10 population tables (identified with a "PCO") shown down to the county level, for a total of 331 tables. The SF 1 Urban/Rural Update added 2 PCT tables, increasing the total number to 333 tables. There are 14 population tables and 4 housing tables shown down to the block level and 5 population tables shown down to the census tract level that are repeated by the major race and Hispanic or Latino groups.

SF 1 includes population and housing characteristics for the total population, population totals for an extensive list of race (American Indian and Alaska Native tribes, Asian, and Native Hawaiian and Other Pacific Islander) and Hispanic or Latino groups, and population and housing characteristics for a limited list of race and Hispanic or Latino groups. Population and housing items may be cross-tabulated. Selected aggregates and medians also are provided. A complete listing of subjects in this file is found in the "Subject Locator" chapter of the 2010 Census Summary File 1 Technical Documentation

Summary File 1 (SF 1) is released as individual files for each of the 50 states, the District of Columbia, and Puerto Rico, and for the United States. The tables (matrices) are identical for all files, but the geographic coverage differs. SF 1 for states was released from June–August 2011.

Sprawl

The Sprawl Assessment is based the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2010 Census minus the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2000 Census.

2010 Core Place Housing Units	2000 Core Place Housing Units
2010 Growth & Investment Housing Units	2000 Growth & Investment Housing Units

Other methods of quantifying sprawl such as using satellite spectral data to indicate changes in impervious surface over time, maybe investigated for future study. However, were beyond the scope of this project.

Population

2000-2010:

The P1 "TOTAL POPULATION" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the Growth & Investment Area and Core Place population change.

Average Age:

PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the average age for the Growth & Investment Area and Core Place populations and the percentage change from 2000-2010.

Demographic Shifts:

Demographic Shifts used the PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 to determine the population of the six current generational cohorts (living at the time of the 2010 census) for both 2000 and 2010 and then calculating the percentage change in each generational cohorts population. Generational cohorts' birth by year range can fluctuate depending on the source. Table 1 lists the generational cohort and the corresponding range for the year of birth used for this study. (Novak n.d.)

Generational Cohorts	Born Between	
GI Generation (Greatest)	1901	1926
Silent Generation	1927	1945
Baby Boomers	1946	1964
Generation X	1965	1980
Millennial Generation	1981	2000
Generation Z	2001	Present

The study targeted the Silent Generation, Baby Boomers, Generation X, and the Millennial Generation for changes in cohort population. The Generation Z was not alive at the time of the 2000 census and the percentage change could not be calculated and the GI Generation population was less the 3% for the total 2010 Northwest Michigan population and was not included in the targeted cohorts.

Talent Jobshed

Data Source

All Jobshed information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the *Commuting Data* was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth

& Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)¹ are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program.
<http://lehd.ces.census.gov/applications/help/onthemap.html>

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program.
<http://onthemap.ces.census.gov/>

Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a “beginning of quarter” job because the assumption is that the worker was employed on the first day of the reference quarter.

Years

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been “crosswalked” or “transformed” into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

Data Structure

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different “labor market segments.” The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

Population & Housing Trends

Data Source

Population and Housing Data: The 2000 and 2010 Census Summary File 1 data tables provide the most detailed information available so far from the 2000 Census and 2010 Census about a community's entire population, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. For Census Designated Places (CDPs) that were first established in 2010, the 2010 Census Block Relationship files were utilized to process the 2000 Census Summary File 1 block data to calculate the 2000 data for these CDPs.

The 2010 Census Block Relationship files are provided as a tool to help data users compare the universe of Census 2000 blocks to the universe of 2010 Census blocks. From these files, data users may determine how 2000 blocks now relate to 2010 Census blocks and vice versa.

Geographic Areas: 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

Core Place and G&I Area Geographic Extents

The Core Place and G&I Area geographic extents were determined to provide the maximum continuity across differing datasets from governmental and private sources. In cases where CDPs were utilized, data years of predating the establishment of the CDP were unavailable causing gaps in total counts and percentage changes.

Gross Neighborhood Density

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

Total Households

The Percentage of Households without Children (under 18) was calculated by adding "Nonfamily households:" Table P0180007 together with "2-or-more-person household: Family households: Husband-wife family: No own children under 18 years" Table P0190009 from the 2010 Census Summary File 1 and then dividing by the total number of households.

Commercial Corridors

Corridor Length

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

Population & Housing Density

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer.

Job & Worker Density

To calculate Job and Worker density, All Job and Worker information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Residence Area Characteristics (RAC) and Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job and worker data for any Census Block either fully or partially contained within the buffer.

Growth & Investment Core Place Map with Commercial Corridors

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors were combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog.

Housing Data

Housing data, other than counts provided by the 2010 Census, is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

The American Community Survey (ACS) is a part of the U.S. Census Bureau's Decennial Census Program and is designed to provide more current demographic, social, economic, and housing estimates throughout the decade. The ACS provides information on more than 40 topics, including education, language ability, the foreign-born, marital status, migration and many more. Each year the survey randomly samples around 3.5 million addresses and produces statistics that cover 1-year, 3-year, and 5-year periods for geographic areas in the United States and Puerto Rico. The 5-year estimates are available for many distinct geographies including the nation, all 50 states, DC, Puerto Rico, counties, places, census tracts, and block groups. ACS tables are published on the Census Bureau's American FactFinder (AFF) website, factfinder2.census.gov, and are available for download in several forms. (US Census Bureau 2014)

Since the Detailed Tables contain a large number of cells, the tables are stored in a series of files with only the data from the tables, without such information as the title of the tables, the description of the rows, and the names of the geographic areas. That information is in other files that the user must merge with the data files to reproduce the tables. This study created a data search tool to pull detailed table data from the assembly of the Michigan ASCII data files for each sequence number files containing the subject data (Sequences: 58, 62, 63, 64, 104, 105, 106, 107, 108).

The ACS estimates are based on data from a sample of housing units and people in the population, not the full population. For this reason, ACS estimates have a degree of uncertainty associated with them, called sampling error. This study does not list the sampling error for each data point due to the statistical complexity of combining margins of error in Growth & Investment Areas containing multiple municipalities.

Housing Efficiency Rating (Average HERS)

The Home Energy Rating System (HERS) Index is the industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance. It was developed by the Residential Energy Services Network (RESNET) an independent, non-profit organization to help homeowners reduce the cost of their utility bills by making their homes more energy efficient. To calculate a home's HERS Index Score, a certified RESNET HERS Rater does an energy rating on your home and compares the data against a 'reference home'— a designed-model home of the same size and shape as the actual home, so your score is always relative to the size, shape and type of house you live in.

To calculate the Average HERS score for homes in the specified geography the Total Built by Year was used together with an average HERS rating for the respective vintage of home construction to calculate an overall Average HERS score. (Hodgson 2008)

$$\text{Average HERS} = \frac{\sum_{i=1}^9 \text{Number of Vintage Homes} \times \text{Average HERS Rating by Vintage}}{\text{Total Homes}}$$

Percentage Built by Year & Average Year

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by vintage year. The housing counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage Built by Year*.

Median Value

Sequence file 106 of the ACS 2008-2012 5 Year Detailed Table was used to provide median value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

Home Heating Fuel

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by fuel used in heating. The counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage of Homes Using Natural Gas, Percentage of Homes Using Propane, Percentage of Homes Using Wood, and Percentage of Homes Using Solar Energy.*

Personal Income

Personal Income data is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

Median Household Income (2012 Dollars)

Sequence file 63 of the ACS 2008-2012 5 Year Detailed Table was used to provide *Median Household Income* value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

Per Capita Annual Income (2012 Dollars)

Sequence file 64 of the ACS 2008-2012 5 Year Detailed Table was used to provide Per Capita Annual Income and Aggregate Annual Income values for each of the municipalities comprising the Growth & Investment Area. Total Calculate the Core Place and G&I Area Per Capita Annual Incomes the Aggregate Annual Income was divided by the Per Capita Annual Income to derive the population number used in the Per Capita calculation. The Aggregate Annual Income for each unit of government was then summed together and divided by the sum of the Per Capita populations to provide the Per Capita Annual Income.

$$\text{Per Capita Income} = \frac{\sum_{i=1}^n \text{Aggregate Annual Income}_i}{\sum_{i=1}^n \frac{\text{Aggregate Annual Income}_i}{\text{Per Capita Annual Income}_i}}$$

i = the data for each unit of government contained in the geographic extent

n = to the total number of units of government in the geographic extent

Household Income Distribution Chart

Sequence file 58 of the ACS 2008-2012 5 Year Detailed Table was used to provide number of households falling in each of the distribution segments for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then the municipal household distribution is used to determine the percentage falling in each income segment. If there are multiple municipalities, then the household income segment counts are summed for all municipalities then divided by the sum of all the households to determine the percentage distribution.

Policy

All policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Zoning

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into ac-

count lot coverages, parking requirement, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). **These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.**

(<http://www.nwm.org/planning/resources/publications/permitting-and-zoning-guides.html>)

Infrastructure

Municipal Water Service

All Municipal Water Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Municipal Sewer Service

All Municipal Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Broadband

All data on Broadband available was sourced from Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014) Ultra fiber service over 1 Gbps (Gigabits per Second) was sourced from the National Broadband Map (<http://www.broadbandmap.gov/technology>) as updated on 12/31/2013. (National Telecommunications & Information Administration 2013)

Energy

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Placemaking Elements

Select Placemaking Elements

All data for the *Parks and Pocket Parks* and *Pedestrian Connections* was sourced from data provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues* and *Grocery Store* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

Job Population Ratio

The rationale for including the ration of *Jobs to Population Ratio* in Commercial Corridors is based on research that finds that in mixed-use developments external vehicle trips decline substantially as the number of jobs and the resident population become more balanced. (Reid Ewing 2013) Ratios approaching 1 indicated balance jobs and population. The ration was calculated by dividing the job density by the population density. Ratios of less than 1 have higher resident populations than the number of jobs. Ratios greater than 1 have a higher number of jobs to the resident population.

To calculate Job density, Job information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference

buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer.

To calculate Population density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population data for any Census Block either fully or partially contained within the buffer.

Talent Jobshed

All Jobshed information utilized 2011 data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the *Commuting Data* was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)¹ are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program.
<http://lehd.ces.census.gov/applications/help/onthemap.html>

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program.
<http://onthemap.ces.census.gov/>

Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a “beginning of quarter” job because the assumption is that the worker was employed on the first day of the reference quarter.

Years

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been “crosswalked” or “transformed” into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

Data Structure

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different “labor market segments.” The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

Commuting Workers

Commuting Workers is the subset of *Jobs Located in Area* that is defined by those jobs where the commute route is from 2 to 175 miles. This LODES data does not sample for weekly commutes. As a result, this study chose to filter job commuting data based on these assumptions for plausible commute distances.

Total Daily One Way Commute for all Commuters

The *Total Daily One Way Commute for all Commuters* (TDOWC) is computed by taking all commuters as filtered by the 2 to 175 mile assumption and calculating the total daily one-way route distance in miles and time in minutes.

Total Annual Commute for all Commuters

The *Total Annual Commute for all Commuters Distance* (TACD) is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route distance in miles by two for the daily commute distance then by 5.25 for the weekly distance then by 50 for the annual distance. The *Total Annual Commute for all Commuters Time* (TACT) is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route time in minutes by two for the daily commute time, then by 5.25 for the weekly time, then by 50 for the annual time, then dividing by 60 to arrive at the total annual time in hours.

$$TACD = TDOWCD \times \text{Round Trip Commute (2)} \times \text{Days in Work Week (5.25)} \times \text{Work Weeks in Year (50)}$$

$$TACT = TDOWCT \times \text{Round Trip Commute (2)} \times \text{Days in Work Week (5.25)} \times \text{Work Weeks in Year (50)} \div 60$$

Annual Commuting Costs

The *Total Fuel Cost* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost of fuel per gallon (\$3.15) and dividing by the fleet average from the 2003 CAFÉ Standards (20.7 Miles Per Gallon).

$$\text{Total Annual Fuel Cost} = TDOWCD \times \text{Fuel Price } (\$3.15) \div \text{FleetAverage MPH}(20.7)$$

The *Total Cost (IRS 2014 Standard Mileage Rate)* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost per mile from the 2014 Internal Revenue Service Standard Mileage Rate (\$.56).

$$\text{Total Commuting Cost Total Cost (IRS)} = TDOWCD \times \text{2014 IRS Standard Mileage Rate} (\$.56)$$

Average Annual Per Worker Commute

The *Average Annual Per Worker Commute Distance* is computed by dividing the *Total Annual Commute for all Commuters* by the number of *Commuting Workers*.

$$\text{Average Annual Per Worker Commute Distance} = TACD \div \text{Commuting Workers}$$

The *Average Annual Per Worker Commute Time* is computed by dividing the *Total Annual Commute for all Commuters* by the number of *Commuting Workers*.

$$\text{Average Annual Per Worker Commute Distance} = \text{TACT} \div \text{Commuting Workers}$$

The *Average Annual Per Worker Commute Total Cost* is computed by dividing the *Annual Commuting Cost Total Cost (IRS 2014 Standard Mileage Rate)* by the number of *Commuting Workers*.

$$\text{Average Annual Per Worker Commute Distance} = \text{TACD} \div \text{Commuting Workers}$$

Retail Activity

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

Total Retail Sales

Whitepaper Statement from Esri: Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

Total Potential Retail Sales

Esri computes Market Potential by combining 2011 Tapestry™ Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

$$\text{Expected Number of Consumers} = \sum_{n=1}^{65} (\text{Count}_n \times \text{Consumption Rate}_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$\text{Local Consumption Rate} = \frac{\text{Expected Number of Consumers}}{\text{Base Count}}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\text{Market Potential Index} = \frac{\text{Local Consumption Rate}}{\text{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The *a* or *h* following the five-digit product code denotes a consumer base of adults or households, respectively.

Leakage

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

Classification:

For the purposes of determining the *Classification*, Sales, Potential Sales, and Leakage are used for the Growth & Investment Area and County to determine whether it is a Retail Hub and if its classified as a Local Hub or Regional Hub for the purpose of this study. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

Sales by Retail Store Type

Ersi in the Retail MarketPlace Dataset contains 44 different types of retail store data. The sample of retail activity by store type included in this section represents approximately two-thirds of potential retail sales depending on the geographic area. This sample of store types is indicative of a diverse set of shopping type that would support a walkable mixed use environment.

Commercial Corridor Datasheets

Corridor Length

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

Street Classification

National Functional Classification (**NFC**) is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (**FHWA**) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication, **Highway Functional Classification: Concepts, Criteria and Procedures**, provides the basis for much of the following information.

Principal Arterials are at the top of the NFC hierarchial system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers. *Examples:* Interstate and other freeways; other state routes between large cities; important surface streets in large cities.

Minor Arterials are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators. *Examples:* State routes between smaller cities; surface streets of medium importance in large cities; important surface streets in smaller cities.

Collectors tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials. *Examples:* County, farm-to-market roads; various connecting streets in large and small cities.

Local roads primarily provide access to property. *Examples:* Residential streets; lightly-traveled county roads.

The following MDOT classifications for this study's Commercial Corridor Inventory are source from the MDOT's National Functional Classification Maps. The classifications are as follows:

Principal Arterial - Other
Minor Arterial
Major Collector
Minor Collector
Local

If a Corridor has multiple classifications along one of its segments, then the highest classification is used. Corridors with multiple segments may contain multiple classifications.

2013 Traffic Volume (AADT)

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

Number of Traffic Lanes

Traffic Lane counts were sourced from Google Earth aerial imagery. On corridors with sections of varying amounts of traffic lanes, the count from the section with highest number of lanes was utilized.

Parking

The presence of Parallel, Diagonal, or Parking Structures in commercial corridors was sourced from Google Earth aerial imagery.

Transit Service

Transit Service was determined from data contained on the respective Transit Agency websites.

Bike Lane

The presence of *Bike Lanes* available in commercial corridors was sourced from Google Earth aerial and street view imagery. Accuracy may vary based on the level of quality of the imagery.

Entertainment Venues

The *Theaters & Entertainment Venues* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

Pedestrian Amenities

Pedestrian Amenities consist of Sidewalks, Crosswalks, and Mid-Block Crosswalks. The presence of these Pedestrian Amenities in commercial corridors was sourced from Google Earth aerial imagery.

Walk Score

Walk Score[®] measures the walkability of any address using a patented methodology that analyzes walking routes to nearby amenities and awards points based on the distance to amenities in each category with end results ranging between 0-100, 100 being a "Walker's Paradise". (Walk Score 2014)

Corridor Overview

The Corridor Overview was source from Master Plans, Zoning Ordinances, Regional Transportation Plans, and other public source documents. Content has been edited.

Corridor Segment and Surrounding 1/4 Mile Study Area Map

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors were combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to query data from various databases used in this study.

Additionally 317 Points of Interest in the 10 county Northwest Michigan region consisting of public use airports, colleges, cultural sites, grocery stores, hospitals, libraries, schools, and theaters & entertainment venues were located for inclusion into the corridor maps.

Economic Development

All corridor specific *Economic Development* policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Additional information on specific community policies can be found in the Michigan Economic Development Corporations Redevelopment Ready Communities' Best Practices guide.

http://www.michiganbusiness.org/cm/Files/Redevelopment_Ready_Communities/RRC-Best-Practices.pdf

Study Area Summary for 1/4 Mile Area Surrounding the Corridor

Population & Housing Data

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable population and housing data.

Study Area Size Data

A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation in ArcMap then used to calculate the land area contained within. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places used to query the land area information.

Worker & Job Data

To calculate *Workers Living within Study Area* and *Jobs Located within Study Area*, data from the US Census Bureau's LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) was utilized. The 2011 (latest year available) Workplace Area Characteristics (WAC) and Residence Area Characteristics (RAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the *G&I Core Places* and *G&I Areas*, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks

was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable Worker and Job data.

Zoning

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into account lot coverages, parking requirements, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). **These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.**

(<http://www.networksnorthwest.org/planning/planning-policy/land-use/growth-and-investment.html>)

Infrastructure

Public Utilities

All Municipal Water and Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Energy

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Broadband

All data on Broadband available was sourced from both the Commercial Corridor Inventory Interviews with representatives of local units of government and Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014)

Policy

All corridor specific policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Traffic Counts

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

The Traffic Count Chart contains AADT counts for the described corridor segment. For the purpose of this chart, if the identified commercial corridor segment has more than one AADT count, the largest count was utilized.

Placemaking Elements

All data for the *Placemaking Elements* was sourced from information provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues, Grocery Store, and Restaurant* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

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Release Notes

1. If any information is in error or incomplete or if a community not currently participating would like to request a commercial corridor interview, please contact Scott Gest, Regional Planner at Networks Northwest.

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