



10/19/2020
DRAFT

City of Northville

SUSTAINABILITY PLAN



Patrick Giesa, Chairman
SUSTAINABILITY TEAM



SUSTAINABILITY PLAN

TABLE OF CONTENTS

	Page
Executive Summary	2
Introduction	3
Role of the Sustainability Team	3
Call to Action	3
Vision for the City	3
Mission Statement	3
Guiding Principles	4-5
The Sustainability Framework	6
• The Three Pillars	7
• Sustainability Strategies	7
• Areas of Focus	7
• Goals & Objectives, Indicators	8
• Sustainability Framework Table	8
 <i>Appendix</i>	
1. Sustainability Strategies – Expanded Definitions	9
2. Smaller Cities with Major Sustainability Efforts	10
3. Current Sustainability Projects, City of Northville	10
4. Circle of Sustainable Development	11
5. Framework Tables Identifying Long-Term Goals & Objectives	11-13
6. Team Bios	14
7. Sustainability Plan Reference Materials	15



SUSTAINABILITY PLAN

EXECUTIVE SUMMARY

In early 2020, the City of Northville initiated efforts to formally strive to become a more sustainable city. While most people primarily associate sustainability with environmental conservation, it is also about people and the health of our communities. Sustainable communities are places where people want to live and work, both now and in the future. They meet the diverse needs of existing and future residents, are sensitive to their environment and contribute to a high quality of life.

Like many other communities, Northville's Sustainability Plan has three components – environmental conservation, economic development and social responsibility. These components, which are referred to as “Pillars” in this document, form the basis for detailing Northville's specific actions that have been and will be taken to achieve Sustainability.

The plan has been developed by the City of Northville Sustainability Team, whose purpose is to be a resource that provides research, support and guidance to city officials and departments as well as the community. The plan is intended to be a “living document” and will be updated as new opportunities and additional resources become available.

Questions regarding the Sustainability Plan can be directed to the Team's email:

sustainability@ci.northville.mi.us



SUSTAINABILITY PLAN

INTRODUCTION

We live in a time of changing population dynamics, high levels of consumption, and the need to sustain economic growth amidst budgetary constraints and community challenges. For municipalities across the country, this has created escalating demands on city resources. These demands also have an impact on the natural environment, our neighborhoods, and the quality of our daily lives. The City of Northville intends to expand its stewardship of our local environment and to support our desire to live more sustainably.

To address this challenge in a direct and comprehensive manner, this year (2020) the City of Northville has appointed a formal Sustainability Team.

Sustainability Team Members

Patrick Giesa (Ch.)	Kathy Spillane
Brian Turnbull	Susan Haifleigh
Dave Gutman	Loyd Cureton
Lori Ward	Thom Barry
AnnaMaryLee Vollick	

Role of the Sustainability Team

- To assist our community to think, plan and act more sustainably.
- To prepare and maintain a Sustainability Plan that provides a framework for identifying goals and objectives and for monitoring outcomes – this resource is a “living document” which will be modified and improved over time as we learn what is best for our City.
- To provide support to the City commissions and committees on issues and actions impacting Sustainability
- To provide criteria for evaluating the sustainability impact of local actions, both near-term and long-term
- To provide a point of contact for sustainability proposals

In short, to ensure the City of Northville can continue to meet its current needs – environmental, economic, and social – without compromising the ability of future generations to do the same.

Call to Action

The Sustainability Team will work together within the community and create change that moves us toward a Sustainable Northville. By collaborating with team members in city government as well as the public, there is much we can do, even in the short-term, to achieve objectives which positively impact energy use, protect the surrounding environment and promote smart growth.

Vision for the City

By 2040, Northville will be an exemplary, energy efficient city with attractive, sustainably developed neighborhoods and waterways, a strengthened economy, a more vibrant downtown, ample non-motorized mobility, continued strong social connections and an abundance of inventive educational and cultural opportunities.

Mission Statement

To implement a comprehensive sustainability platform designed to protect and enhance our resources, prevent harm to the natural environment and our health, while benefiting the social and economic well-being of our City.



SUSTAINABILITY PLAN

Guiding Principles

The City of Northville Sustainability Plan is founded on EIGHT Guiding Principles that provide the basis from which effective and sustainable decisions can be made:

1. Community awareness, participation and education are key elements of a sustainability movement.
2. The concept of sustainability informs city policy for current and future generations.
3. Protection, preservation, and restoration of the natural environment is a priority for the community.
4. Environmental quality, economic health and social fairness are mutually dependent.
5. The decisions of City government have implications to the long-term sustainability of Northville.
6. Sustainability issues important to the community will be addressed as a priority.
7. The City is aware that procurement decisions may have environmental and social impacts.
8. Fostering cross-community partnerships is encouraged to achieve sustainable goals.

Guiding Principles Defined

- 1. Community awareness, participation and education are key elements of a sustainability movement.**

All community members, including individual citizens, community-based groups, businesses, schools, City vendors and other institutions should be aware of their impacts on the environmental, economic and social health of Northville. The City will therefore be a “communication leader” to support community awareness and education of environmental impacts and sustainable practices.

- 2. The concept of sustainability informs city policy for current and future generations.**

The City Sustainability Plan is intended to help guide City policy, achieving an optimal balance between the Plan’s proposed actions and existing City needs/resources. Similarly, the long-term impacts of local policy and actions may well be considered to ensure a sustainable legacy for future generations.

- 3. Protection, preservation, and restoration of the natural environment is a priority for the community.**

The City of Northville is committed to protecting, preserving, and restoring the natural environment. City decision-making will be guided by a vision to enhance environmental benefits and reduce or eliminate negative environmental impacts. The City will lead by example and encourage other community stakeholders to make a similar commitment to the environment.

- 4. Environmental quality, economic health and social fairness are mutually dependent.**

Sustainability requires that our collective decisions allow our economy and community members to thrive without harming the natural environment. A healthy environment is integral to the city’s long-term economic and social interests. Concurrently, we must ensure that inequitable burdens are not placed on any geographic or socioeconomic sector and that the benefits of sustainability are accessible to all members of the community.



SUSTAINABILITY PLAN

Guiding Principles (cont.)

5. The decisions of City government have implications to the long-term sustainability of Northville.

As a means of creating long-term benefits, the goal-setting and decision-making processes of city government ideally reflect Sustainability objectives. The City will lead by example and encourage other community stakeholders to use sustainability principles to guide their decisions and actions.

6. Sustainability issues important to the community will be addressed as a priority.

The financial and human resources which are available to City of Northville are limited. The City and the community reevaluate its budgeted priorities and programs annually (Goals & Objectives Meeting) to ensure the best possible investments are being made. The evaluation of a program's cost-effectiveness will be based on an analysis of the associated cost/benefits, including environmental, health and social impacts.

7. The City is aware that procurement decisions may have environmental and social impacts.

The procurement of products and services by the City, Northville residents, businesses and institutions results in environmental, social and economic impacts, both here and abroad. The City will develop and deploy an environmentally and socially responsible procurement policy that emphasizes long-term values. The City will advocate for and assist local businesses and residents in adopting sustainable purchasing practices.

8. Fostering cross-community partnerships is encouraged to achieve sustainable goals.

Partnerships with businesses, surrounding local governments, local/state and federal funding organizations, as well as other regional partners are necessary to achieve long term improvements in sustainability.



SUSTAINABILITY PLAN

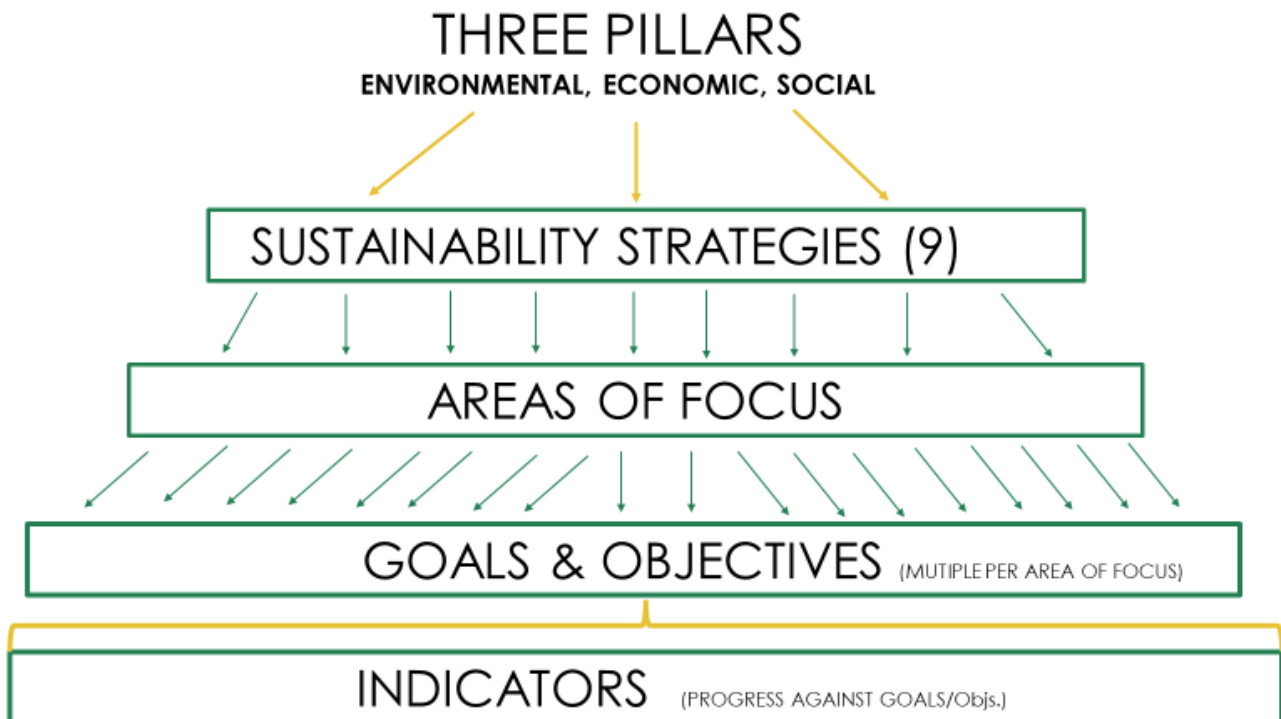
THE SUSTAINABILITY FRAMEWORK

In an effort to establish Northville's sustainability goals, the Team is using a framework built on three PILLARS*, each that needs to be managed with care for the benefit of the community:

1. **Environmental (natural capital)** – the natural environment and natural resources of the community.
2. **Economic (financial and built capital)** – buildings, infrastructure, business operations, manufactured goods information resources, credit and debt.
3. **Social (human and social capital)** – the connectedness among people in the community, which takes into account the education, skills, talents and health of the citizenry.

*Also see the 3-Pillar "Circle of Sustainable Development" in Appendix (page 11).

The three PILLARS (Environmental, Economic and Social) form the strategic platform for all goals and objectives of the Sustainability Plan. The chart below depicts this hierarchy or "flow" that begins with the Pillars, then moves to defined Sustainability Strategies that ultimately drill down to specific goals and objectives that have measures for monitoring outcomes.



Pillars and Strategies



SUSTAINABILITY PLAN

By using the three Pillars as a foundation, a number of sustainability strategies have been developed which are applicable to Northville. Some strategies relate entirely to supporting a specific pillar. For example, an overall Health and Safety strategy relates to the SOCIAL pillar. However, other strategies such as Smart Growth, recognize that conflict can exist between pillars. To illustrate, more real estate development helps build the tax base (pro-Economic), but also creates more traffic (anti-Social). Therefore, Northville's Sustainability Plan includes strategies that are intended to balance those conflicts.

Foundational Pillar(s)	Sustainability Strategies*
Environmental/ Economic	1. Natural Resource Conservation
Environmental/ Social	2. Greenspace Preservation and Restoration
Economic	3. Sustainable Local Economy
Economic/ Social	4. Smart Growth
Social	5. Demographic Diversity
Social	6. Health & Safety
Social	7. Encourage Civic Engagement
Social/ Economic	8. Promote Arts & Culture
Social / Environmental	9. Sustainability Education

*see Appendix for definitions of Sustainability Strategies

Areas of Focus

As shown in the previous flowchart, each of the Sustainability Strategies have AREAS OF FOCUS, which represent major tasks we face in order become a more sustainable city. For example, Topic #1 (Natural Resource Conservation) has an Area of Focus entitled "Sustainable Stormwater Management."

Sustainability Strategies	Areas of Focus
1. Natural Resource Conservation	Reduce, Reuse, Recycle; Stormwater Management; Green Certifications
2. Greenspace Preservation & Restoration	Public Access to Greenspace; Water Quality and Habitat Restoration; Trees
3. Sustainable Local Economy	Health of Local Businesses; Budgets, Capital Improvements & City Services; Financing Sustainability Projects
4. Smart Growth	Non-motorized transportation; Traffic & Parking; Preserving Neighborhood Character; Meaningful Public Spaces; Construction Site Safety
5. Demographic Diversity	Balanced age demographics
6. Health & Safety	Enhanced, physical well-being
7. Encourage Civic Engagement	Involvement of Northville residents
8. Promote Arts & Culture	Preservation/growth of existing assets
9. Sustainability Education	Increased awareness of Sustainability behavior & tools; Student involvement



SUSTAINABILITY PLAN

Specific GOALS AND OBJECTIVES have been developed that reflect progress in each Area of Focus:

- Goals and Objectives are tasks, projects, actions or programs that tracked over time, indicate if we are moving toward improved sustainability.
- To help measure our progress, INDICATORS have been created for many of the Goals and Objectives. For example, an Indicator for the goal "Attain Silver Certification for the City of Northville" would be the Michigan Green Communities Challenge Scorecard.
- For some Indicators, numerical metrics may not be assigned, especially where limits on data availability make it difficult to establish an objective.
- As we develop the Plan, and to the extent possible, timelines will be established for accomplishing specific Goals and Objectives.

Sustainability Reporting

To reach these goals and objectives, it will be important for community members be informed, empowered, and motivated. Therefore, specific tools will be developed for accomplishing this task that provide a snapshot of the community's efforts to date, offering an assessment of how far we have come and what challenges lay ahead.

PROPOSED SUSTAINABILITY FRAMEWORK TABLE

Building off the Pillar hierarchy, a table framework has been developed that includes the nine Sustainability Strategies, which drill down to specific Areas of Focus that generate actionable Goals and Objectives. The table below reflects this analytical approach. The complete set of tables can be found in the Appendix.

[Page 1 of 5] Pillar Legend: E1=Environmental, E2 = Economic, S=Social

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Natural Resource Conservation (E1/E2)	Reduce, Reuse, Recycle	<ul style="list-style-type: none"> • Switch selected appliances/vehicles/lighting to more energy efficient models. • Incorporate energy saving opportunities into facilities owned and operated by city. • Provide EV infrastructure to support growing number of electric vehicles • Reduce water loss in City's watermain infrastructure • Continuously increase the use of sustainable, recycled and recyclable materials • Determine new methods to help local businesses decrease waste production (DDA) 	<ul style="list-style-type: none"> • Energy Usage • Fuel Usage • Solid Waste Volume
Natural Resource Conservation (E1/E2)	Sustainable Stormwater Management	<ul style="list-style-type: none"> • Increase ratios of permeable versus impervious surfaces. • Increase use of green infrastructure for public and private developments. • Amend city ordinances to support area of focus • Increase awareness/ capability to obtain public funding for green infrastructure projects. • Reduce discharge of Stormwater to waterways 	<ul style="list-style-type: none"> • Upward trend • Pilot projects implemented and evaluated for expanded use • New ordinance by xx date • Amt. grant funds awarded



SUSTAINABILITY PLAN

----- APPENDIX 1 -----

Sustainability Strategies – Expanded Definitions

Natural Resource Conservation

Society's *management* & use of natural resources, which are finite and capable of being destroyed without sustainable use. Examples include preservation of clean air and water, reductions in solid waste, and solution-based topics such as stormwater management and renewable energy.

Greenspace Preservation and Restoration

The preservation and/or enhancement of green space as well as waterways within our greenspace. It includes not only parks, but also natural areas and vegetative cover. Fisheries and wildlife habitat fall under this umbrella as does the beneficial use of these spaces by residents and visitors

Sustainable Local Economy

Ensuring a healthy, downtown core of businesses and strategic management of city services and central infrastructure such as roads and parking facilities.

Smart Growth

Overseeing the growth of the city and infill development using a balanced approach which grows the tax base, while preserving the character and charm of the city, creating a strong sense of place. This strategy includes striking a balance between vehicles, pedestrians and cyclists.

Demographic Diversity

Providing a range of high quality, affordable housing choices to meet the current and future needs of a demographically diverse community.

Health and Safety

Minimize risk to public health and property from man-made and natural hazards. Also includes the Farmers Market, which not only provides access to healthy produce but also has the potential to be a place to host education classes on health, environmental care, and other relevant lifestyle topics. .

Encourage Civic Engagement

Ensure our community is strongly connected through opportunities for engagement and stewardship of civic activities within the Northville area, developing the combination of knowledge, skills, values and motivation that cultivate positive change for our City.

Promote Arts and Culture

Preserving and improving the quality of life by providing a diverse choice of artistic and entertainment experiences which also provide economic benefit to the community.

Sustainability Education

Increasing knowledge and capability for sustainability within the community, including city departments, our local residents, and importantly, the children and students who will form our future generations.



SUSTAINABILITY PLAN

----- APPENDIX 2 and 3 -----

Smaller Cities with Major Sustainability Efforts

- Northport Village, MI (525)
 - Petoskey, MI (5,738)
 - St. Joseph City, MI (8355)
 - Ferndale, MI (19,900) City of Northville pop. – 5,970
-
- Greensburg, KS (795)
 - Sleepy Eye, MN (3,599)
 - West Liberty, IA (3,736)
 - Columbus, WI (4,991)
 - Homer, AK (5,003)
 - Charles Town, WV (5,259)
 - South Daytona, FL (12,221)

Significant sustainability efforts are in place for many cities similar in size to Northville. Above are listed Michigan cities who have achieved Silver Status with the Michigan Green Communities challenge. We also were able to identify small communities throughout the US with impressive sustainability plans.

Current Sustainability Projects

Defined as projects already in this year's budget and/or low-effort opportunities to achieve results. Examples:

- a. Fish Hatchery Project (\$800K+)
- b. New bio-diesel street sweeper
- c. Silver Certification Challenge (MGCC)
- d. New Street Lighting with improved efficiency (DDA)
- e. Rollover Account for energy savings
- f. Tree Planting DNR program
- g. FAR Approval at .36
- h. Conversion to LED Lighting project (DPW)
- i. Support of local businesses during Pandemic period

In preparing this plan, it became apparent the City of Northville is already immersed in many sustainability initiatives. For example, Northville is currently poised to receive Silver Status by the Michigan Green Communities Challenge. Also, our Master Plan update is positioned to support Smart Growth efforts. Further, the DDA has done an outstanding job of sustaining local businesses.

SUSTAINABILITY PLAN

----- APPENDIX 4 and 5 -----

Circle of Sustainable Development



Source: Campbell, S., "Green Cities, Growing Cities, Just Cities?"

The three PILLARS (Environmental, Economic and Social) form the strategic platform for all goals and objectives of the Sustainability Plan.

The circle illustrates the interdependencies between the Pillars. It also shows the potential for conflict.

City policies and programs that consider all 3 pillars will drive outcomes toward the center of the circle, creating Sustainable Development.

Sustainability Framework Tables [Pillar Legend: E1=Environmental, E2 = Economic, S=Social]

Table showing long term goals & objectives for Areas of Focus (Page 1 of 5)

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Natural Resource Conservation (E1/E2)	Reduce, Reuse, Recycle	<ul style="list-style-type: none"> Switch selected appliances/vehicles/lighting to more energy efficient models. Incorporate energy saving opportunities into facilities owned and operated by city. Provide EV infrastructure to support growing number of electric vehicles Reduce water loss in City's watermain infrastructure Continuously increase the use of sustainable, recycled and recyclable materials Determine new methods to help local businesses decrease waste production 	<ul style="list-style-type: none"> Energy Usage Fuel Usage Solid Waste Volume
Natural Resource Conservation (E1/E2)	Sustainable Stormwater Management	<ul style="list-style-type: none"> Increase ratios of permeable versus impervious surfaces. Increase use of green infrastructure for public and private developments. Amend city ordinances to support area of focus Increase awareness/ capability to obtain public funding for green infrastructure projects. Reduce discharge of Stormwater to waterways 	<ul style="list-style-type: none"> Upward trend Pilot projects implemented and evaluated for expanded use New ordinance by xx date Amt. grant funds awarded
Natural Resource Conservation (E1/E2)	Green Certifications and Credentials	<ul style="list-style-type: none"> Participate in Michigan Green Communities Challenge Investigate means to encourage/Incentivize greener home building (consider LEED/other). Incorporate "net zero" home building educational materials into City website. Look at building codes to review minimum energy standards (commercial businesses) 	<ul style="list-style-type: none"> Bronze, Silver, Gold certification levels % of buildings achieving certification qualifying comprehensive green building programs Code review completed by xx date.



SUSTAINABILITY PLAN

SUSTAINABILITY FRAMEWORK

Table showing long term goals & objectives for Areas of Focus (Page 2 of 5)

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Greenspace Preservation and Restoration (E1/S)	Public Access to Greenspace and Waterways	<ul style="list-style-type: none"> Plan for and implement a trail network system spanning between the Mill Race Village and the Northville Downs properties in order to increase passive and active recreational opportunities and to improve water quality and habitat. Implement strategies for increased use of Ford Field 	<ul style="list-style-type: none"> Public engagement. Concept Plan complete. Funding identified. Progress towards completing identified phases.
Greenspace Preservation and Restoration (E1/S)	Water Quality and Habitat Restoration	<ul style="list-style-type: none"> Complete habitat restoration of the Johnson Creek/pond in Fish Hatchery Park (\$900K+) Daylight and restore the Walled Lake Branch located beneath the Northville Downs property. Implement water quality improvements for Johnson Creek on Downs property. 	<ul style="list-style-type: none"> Reduction in Beneficial Use Impairments. Reduction in sediment load. Pond depth increased Quality of fish channel passage Implementation of bioswale # of native species planted
Greenspace Preservation and Restoration (E1/S)	Trees	<ul style="list-style-type: none"> Implement a labeling and mapping project to promote Northville's great diversity of trees Identify and implement tree planting opportunities using private and public monies. 	<ul style="list-style-type: none"> # of trees identified. # of trees planted.
Sustainable Local Economy (E2)	Overall Health of Local Businesses	<ul style="list-style-type: none"> Identify and support DDA projects in process and/or proposed that support a strong economy. Implement programmed events to attract restaurant and retail customers. Coordinate intervention initiatives during economic hardship periods (e.g. 2008, Covid-19) 	<ul style="list-style-type: none"> DDA revenue and expenses Economic benefit to merchants during events DDA goals and objectives. Number of non-planned closures (downward trend).
Sustainable Local Economy (E2)	Budgets, Capital Improvements and City Services	<ul style="list-style-type: none"> Maintain roads at fair to excellent conditions through pavement preservation investments. Implement 20-year Maintenance Plan for parking decks and surface lots Achieve 100% pension & retiree health care funding by 2030 or earlier. Strive to internally fund capital improvement costs. Ensure that all incremental costs for the Downs project are identified and appropriately allocated. 	<ul style="list-style-type: none"> Cost avoidance of road reconstruction costs Various funding sources identified % level of funding Bond cost avoidance Cost/benefit analysis of proposed developments

SUSTAINABILITY FRAMEWORK

Table showing long term goals & objectives for Areas of Focus (Page 3 of 5)

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Sustainable Local Economy (E1/E2)	Financing Infrastructure and Sustainability Projects	<ul style="list-style-type: none"> Implement rollover account which channels money from energy savings into sustainability investment fund for new projects. Incorporate proposed sustainability projects into city budget on annual basis. Increase awareness/capability for public funding of sustainability initiatives. 	<ul style="list-style-type: none"> Dollar amount accumulated over time. Sustainability line items in budget Amount of grants awarded Strategic partnerships activated (MEDC, Michigan Municipal League, ARC, EGLE, SEMCOG, etc.)
Smart Growth (E2/S)	Meaningful Public Spaces that Contribute to the Social Well Being of the Community	<ul style="list-style-type: none"> Identify placemaking concepts in Master Plan. Ensure that Downs site plan is evaluated for public space benefits. Activate strategic partnerships with Michigan Municipal League Adaptive buildings as use changes over time 	<ul style="list-style-type: none"> Language implemented Degree of correlation with feedback received by public. Exchange of knowledge and expertise. Adaptive reuse scoring
Smart Growth (E2/S)	Preservation and Enhancement of Neighborhood and Downtown Character	<ul style="list-style-type: none"> Ensure compatibility of designs and massing of residential, commercial and mixed-use structures Enhance language for defining vibrancy and walkability (for use in Planning Commission work and other development review efforts) Improve processes for communicating and assessing compatibility. 	<ul style="list-style-type: none"> Floor Area Ratio (FAR) Changes to Master Plan language to guide new development Walkability score (once developed)
Smart Growth (E2/S)	Traffic and Parking	<ul style="list-style-type: none"> Pursue solutions to mitigate negative impact of surrounding communities' traffic on Northville. Evaluate Downs site plan for effectiveness in dispersing traffic across multiple diverse routes. Identify future pedestrian safety concerns and solutions within Downs redevelopment project. Implement best practices for parking to achieve sustainability (water quality) and walkability goals. 	<ul style="list-style-type: none"> Regional traffic options identified. Traffic calming infrastructure Recommended modifications by 2021



SUSTAINABILITY PLAN

SUSTAINABILITY FRAMEWORK

Table showing long term goals & objectives for Areas of Focus (Page 4 of 5)

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Smart Growth (E2/S)	Non-motorized Transportation	<ul style="list-style-type: none"> Increase use of non-motorized transportation by investing in dedicated paths and by prioritizing cyclists and pedestrians. Increase racks to accommodate more bike parking, including Ebikes Pursue public funding for non-motorized infrastructure during road reconstruction planning process. 	<ul style="list-style-type: none"> New paths Fragmentation of existing paths: downward trend Walkability Score upward trend No. bicycle parking facilities Amount of grant monies awarded.
Smart Growth (E2/S)	Impact of Construction on Residents and Workers	<ul style="list-style-type: none"> Analyze sound and noise levels allowed for new construction. Conduct audit of safety ordinances and improve as necessary Evaluate capacity to enforce construction and safety ordinances in anticipation of a significant increase in new construction. 	<ul style="list-style-type: none"> Compliance reports Reported injuries Nuisance complaints No. of noise citations FTE levels of building inspection staff
Demographic Diversity (S)	Balanced Age Demographics (also Senior Citizen Accommodation)	<ul style="list-style-type: none"> Actively promote the development of housing which is affordable and desirable for young families. Continued active support of Allen Terrace. Implement a range of destinations that are close to home and easily accessible by foot or bicycle. 	<ul style="list-style-type: none"> Total average age of residents: downward trend Housing affordability metrics Kid-friendly metrics, e.g. Popsicle test Opinion polls regarding desirability/livability of City

SUSTAINABILITY FRAMEWORK

Table showing long term goals & objectives for Areas of Focus (Page 5 of 5)

Sustainability Strategies	Areas of Focus	Long Term Goals/ Objectives	Indicators
Health and Safety (E2/S)	Enhanced, Physical Well Being	<ul style="list-style-type: none"> Plan and implement alternative location and amenities for displaced Farmers' Market. Maintain and/or lower crime statistics as the city grows across multiple categories of housing. Improve safety for pedestrians and cyclists by increasing the inventory of dedicated paths and ensuring paths are maintained and usable. Reduce pesticide and herbicide usage in Northville. 	<ul style="list-style-type: none"> Farmers Market Master Plan Crime statistics
Encourage Civic Engagement (S)	Involvement of Residents	<ul style="list-style-type: none"> Upward trend in attendance at public meetings, educational and volunteer sessions. Significant participation in virtual seminars. 	<ul style="list-style-type: none"> Participation metrics. Correlation between input and plans and projects.
Promote Arts and Culture (E2/S)	Preservation of Existing Assets and Growth of New Assets	<ul style="list-style-type: none"> Plan for continued municipal support of the Marquis Theater, Genitti's, the and Tipping Point Theater (all private businesses) and Mill Race Village (City-owned property). Continued support of existing and future events, such as the Music on Main, Northville Unplugged, and Skelton's Alive etc. Foster the growth of creative and mixed-use development on the east side of Cady Town. 	<ul style="list-style-type: none"> Identification of long-term goals and barriers to preservation. Proposed developments
Sustainability Education (S)	Awareness of Sustainability Behavior and Tools	<ul style="list-style-type: none"> Utilize various media to promote the Sustainability mission, projects, goals and objectives. Work with Northville Schools to promote sustainability education. 	<ul style="list-style-type: none"> Volume and quality of media coverage Green Education opportunities identified



SUSTAINABILITY PLAN

----- APPENDIX 6 -----

Team Bios

Patrick Giesa – Technical Degree, EDP (accounting minor), North Idaho College. Currently serves on Northville City Council, Board Commissions Selection Committee, Board of Zoning Appeals, Liquor License Review Committee, Northville City Sustainability Team and Northville Senior Advisory Council. He also serves on the board of directors - Northville Rotary Foundation and was club president in 2016. (Avid Cyclist).

Kathy Spillane – BSCE, MBA UofM. More than 20 years professional experience in the fields of Construction, Real Estate Development, Environmental, Strategic Planning and IT primarily with Daimler/Chrysler.

Dave Gutman – MBA Indiana Univ. Thirty-one years Ford Motor Co., extensive overseas work in new Dealership design and construction, held several U.S. product & marketing positions. Currently building new home targeting net-zero energy use (and avid cyclist).

Thom Barry – BSME MSU, Professional engineer, entrepreneur, Member of Sierra Club, Trout Unlimited, Northville Planning Commission Member.

AnnaMaryLee Vollick – B.S. Environmental Science Wayne State University. Eleven years with U.S. Fish and Wildlife Service at the Detroit River International Wildlife Refuge. Currently working for U.S. Army Corps of Engineers in Detroit

Susan Haifleigh – B.S. Architecture/ B.A. Architecture, Lawrence Technological University (Southfield, MI); Graduate Certificate Architecture Intermundium, Como Italy. Principal/Founder of DiaMonte Design LLC, specializing in commercial and residential design services. Instructor of Design Studio and History of Architecture at Eastern Michigan University. Previously Director of Sustainability Solutions for VFA, Inc., Boston MA, launching their Green Consulting advisory business for multi-national, education, healthcare, and State/Federal government facilities.

Loyd Cureton – Public Works Director for the City of Northville's, has over 25years local government experience, during his career has worked as a voting representative for the Resource Recovery and Recycling Authority of Southwest Oakland County (RRRASOC) and the Southeastern Oakland County Resource Recovery Authority (SOCRRA), managed wetland mitigation projects, urban tree canopies, and has advanced community education in the areas of stormwater management, protection of drinking water, recycling, and multimodal transportation. Finally, Loyd is a devoted papa to his four amazing grandchildren and a proud pet dad to wonder dog, Frank.

Brian Turnbull – Mayor of the City of Northville, Historian & Lecturer for Northville Historical Society, Member & Leader of the First United Methodist Church, President of Old Timers Historic Group and long-time involvement in local Boy Scouts organization; has held Executive positions at Ford Motor Company & Ford Credit, Urban Science and tech data company NiTS Solutions. Has worked on over 100 community development projects, incorporating greenspace growth within commercial & retail properties.

Lori Ward – Holds a Bachelor of Arts in Urban and Regional Planning and also a Master of Arts in Historic Preservation Planning; has over 35 years of experience in economic development and community planning, specializing in the area of downtown development and the redevelopment of urban areas. She currently serves as the Director of the Northville Downtown Development Authority, a position she has held since 1999. Prior to working with the Northville DDA, Lori provided consulting services to communities in the areas of historic preservation, urban design, and downtown redevelopment in Michigan and Washington, DC.



SUSTAINABILITY PLAN

----- APPENDIX 7 -----

Sustainability Plan Reference Materials:

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