

2020-2025 Capital Improvement Plan (CIP)



CHARTER TOWNSHIP OF WHITE LAKE
Oakland County, Michigan

2020 - 2025 Capital Improvement Plan (CIP)



ACKNOWLEDGEMENTS

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Daniel T. Keller, Chief of Police | Sean O'Neil (AICP), Planning Dept. Director |
Kathy Gordinear, Dublin Community Senior Center Director | Jason Iacoangeli (AICP), Parks and Recreation | Vacant
Building Official |

White Lake Township Community Development Department

Sean O'Neil (AICP), Planning Dept. Director | Jason Iacoangeli (AICP), Senior Planner | Hannah Micallef, Planning
Department Executive Secretary |

The CIP Team

White Lake Township Community Development Department | Staff and Administration of White Lake Township |

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Resolution of Adoption

White Lake
Oakland County, Michigan

Capital Improvement Plan 2020-2025
Resolution #19-032

Motion by Clerk Lilley, Supported by Treasurer Roman, that the White Lake Township Board of Trustees accept the Capital Improvement Plan for the years 2020-2025. The White Lake Township Board has determined the following:

WHEREAS, the Michigan Planning Enabling Act, Act 33 of 2008, requires the White Lake Township Planning Commission to annually prepare a Capital Improvement Plan for the benefit of the health, safety, and welfare of the community as those criteria relate to the physical development of the Charter Township of White Lake; and

WHEREAS, the Township's professional engineering consultant, planning consultant, and Planning Director have consulted with the Township's professional staff who carry on the business of planning and providing for the present and future needs of the citizens of the Charter Township of White Lake; and

WHEREAS, the Capital Improvement Plan is intended to consider the present and future needs and goals of the Charter Township of White Lake, as identified by the public, department heads, the Township Board of Trustees, and the Township Planning Commission, in consideration of existing projects and plans as well as anticipated resources; and

WHEREAS, the Capital Improvement Plan is a flexible document, intended to be reevaluated and updated on an annual basis to project into the six (6) succeeding years, and further amended as necessary to address the policies and philosophies of relevant Township Boards, Planning Commissions, and other stakeholders; and

WHEREAS, the Capital Improvement Plan is a guide and forum to aid the Township Supervisor and Township Board of Trustees in making decisions regarding the physical development and infrastructure maintenance of the Township and determining what, if any, resources can and should be available to carry out the Township Board's policies and budgetary decisions; and

WHEREAS, the draft of the Capital Improvement Plan has been available for public review via the Township website and copies made available at the office of the Township Planning Department, and has been an agenda item for discussion and review by the Planning Commission and Township Board at several public meetings, and has been the subject of a duly-noticed Public Hearing held before the White Lake Township

Resolution of Adoption, continued

Planning Commission on September 5, 2019 and will be reviewed, revised, and updated by the Planning Commission on an annual basis; and

WHEREAS, the Capital Improvement Projects included within the Capital Improvement Plan have been evaluated utilizing a point-system of variables that included, among other things, whether a Capital Improvement Project has already begun, whether funds have been committed to the Project, the sources of funds committed to a Project, whether the Project is required per a legal obligation, or whether the projects is part of a Township-adopted policy, plan, or program; and

WHEREAS, the White Lake Township Planning Commission on September 5, 2019 moved to adopt the 2020-2025 Capital Improvement Plan.

NOW THEREFORE BE IT RESOLVED, that the Capital Improvement Plan presented during the Public Hearing on September 5, 2019 and revised per the public comments received during that Public Hearing, and adopted by the White Lake Township Planning Commission on September 5, 2019.

IS ACCEPTED BY THE WHITE LAKE TOWNSHIP BOARD OF TRUSTEES; and

BE IT FURTHER RESOLVED, that this Capital Improvement Plan should be published and attested to according to State law.

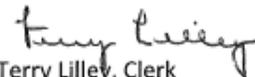
Ayes: 7

Nays: 0

Absent: 0

RESOLUTION DECLARED ADOPTED.

I HEREBY CERTIFY, that I am duly elected and qualified Clerk of the Charter Township of White Lake, County of Oakland, State of Michigan, and the keeper of the records of the proceedings of said Township as authorized by the Township Board, and the foregoing is a true and correct copy of a resolution duly adopted by a majority vote a regular meeting of the Township Board legally held on the September 17, 2019 at which a quorum was present.



Terry Lilley, Clerk
White Lake Township
Oakland County, Michigan

1. Overview

The 2020-2025 White Lake Township Capital Improvement Plan (CIP) will serve as a tool to assist White Lake Township in turning long-range policy planning into real improvements on the ground. A six-year capital improvement plan and an annual update of that plan is now a requirement for White Lake Township under the Michigan Planning Enabling Act of 2008. The following report identifies the major capital improvements needed and/or planned for the community, the timeframe for implementation of those improvements, and the budget and revenue sources that will make those improvements a reality. Capital improvements cover multiple departments within White Lake Township, and include new Township facilities, water and sewer extensions, fire protection vehicles and equipment, police equipment, parks and recreation facilities, non-motorized pathways, and professional services.

The following subsections within this first chapter include an introduction to capital improvement planning, the community of White Lake Township, and the capital improvement planning process. In subsequent chapters, this report summarizes existing facilities (Chapter 2), provides detailed components for all major Township departments, facilities, and systems (Chapter 3), and presents the projected cost and revenue sources for all covered improvements. (Chapter 4).



1a. Overview - CIP Overview

What is a Capital Improvement Plan (CIP)?

A Capital Improvement Plan is a six-year schedule of public physical improvements which identifies the needs for major public infrastructure improvements, and the sources of funding to make those improvements. It provides a schedule of expenditures for constructing, maintaining, upgrading, and/or replacing a community's physical inventory. The CIP, therefore, is a tool to assess the long-term capital project requirements (the "big jobs") of White Lake Township. Since capital improvement projects are spread across multiple community needs (fire protection, police, water and sewer, parks and recreation, library, municipal administration, etc.), the CIP prioritizes these projects across the entire community and over time, providing an "apples-to-apples" comparison of the community's various needs and wants.

What are Capital Improvement Projects?

Capital improvement projects are major and infrequent expenditures, such as the construction of a new facility, a major rehabilitation or repair of an existing facility, or the purchase of major equipment. Capital improvement projects are non-recurring expenditures that tend to be large both in physical size and in cost, and have a long-term usefulness (10 years or more) .

Examples of capital improvement projects can include:

- Construction of a new township hall
- Construction of a new fire station
- Extension of a water/sewer line
- Purchase of a new fire truck
- Construction of an addition to a township library
- Major rehabilitation of a township's community/senior center
- Creation of a new township park

Examples of expenditures which would not usually constitute a capital improvement project include:

- Purchase of new office furniture
- Purchase of small equipment (lawn mowers, copiers, individual computers, etc.)
- Recurring maintenance of existing facilities
- Minor repairs of existing buildings and equipment

- Minor improvements to existing buildings (carpet, painting, etc.)

The term “major expenditure” is relative; what is “major” to one community might be “minor” to another. The City of Ann Arbor, for example, sets a minimum threshold of \$100,000 for projects to be included in the City’s CIP, while the City of Rochester Hills sets a minimum of \$25,000. White Lake Township’s policy for determining a Capital Improvement is defined in the following section.

What is White Lake Township’s Capital Improvement Policy?

A capital improvement project is a major, nonrecurring expenditure that meets one of more of the following criteria:

- Any acquisition of land for a public purpose which costs \$50,000 or more.
- Any construction of a new public facility (Township building, water/sewer lines, pathways), or any addition to an existing public facility, the cost of which equals \$50,000 or more and has a useful life of three or more years.
- A nonrecurring rehabilitation (not to include annual/recurring maintenance) of a building, its grounds, a facility, or equipment, the cost of said rehabilitation being \$50,000 or more with a useful life of three or more years.
- Purchase of major equipment which, individually or in total, cost \$50,000 or more with a useful life of three or more years.
- Planning, feasibility, engineering, or design studies related to an individual capital improvement project, or program implemented through individual capital improvement projects, with a cost of \$50,000 or more and a useful life of three or more years.

Why a CIP for White Lake Township now?

The Michigan Planning Enabling Act of 2008 requires a Capital Improvement Program for any Michigan township which owns and/or operates a water supply or sewage disposal system. Since White Lake Township owns and manages both a public water and sanitary sewer system, adopting and annually updating a Capital Improvement Plan is now a requirement per State law.

What are the benefits of preparing a CIP?

The CIP is more than just a State requirement; it is an essential planning tool in addition to a statement of budgetary policy. It informs the taxpayers of White Lake Township how the Township plans to prioritize, schedule, and coordinate capital improvement projects over the next six years. The benefits of creating and annually updating the CIP include:

- Prudent use of taxpayer dollars;
- Focusing the Township expenditures on the needs of the community;
- Prioritizing projects across the needs of the community;
- Generating community support by inviting public input;
- Promoting economic development;

- Improving the Township's eligibility for State and Federal grants;
- Providing an implementation tool for the goals and objectives of the Township Master Plan;
- Transparency in identification of high-priority projects;
- Coordination/cost-sharing between projects.

What is the role of the Township Planning Commission in the CIP process?

The Capital Improvement Program is a dynamic planning document, intended to serve as a tool to implement the White Lake Township Master Plan. The Master Plan should correspondingly include capital improvement projects as well as guide long-term capital planning. The White Lake Township Planning Commission is uniquely qualified to manage the development and annual update of the Township's CIP, based on their role in creating and updating the Township Master Plan. The Planning Commission's role will ensure that public works projects are consistent with the land uses identified within the Master Plan. By making a recommendation of approval for the CIP to the Township Board, the Planning Commission agrees that the projects outlined within it reasonably address the Township's capital improvement needs.

The CIP is an essential link between planning for capital improvement projects and budgeting for them. Once approved by the Township Board, the CIP can be used to develop the capital project portion of the Township's budget. Those projects included in the CIP's first year (2020) potentially form the basis for the upcoming year's capital project budget. As the CIP is annually updated, a continuous relationship will be maintained between the CIP and the Township's annual budget. The annual update to the CIP will occur in advance of the preparation of the Township's budget.



1b. Overview - White Lake Township Overview

White Lake Township, Oakland County's "Four Seasons Playground", prides itself as a community which continues to promote economic growth, sustainable development, and a strong sense of place. White Lake's character as a premier residential community, with ample recreational opportunities and superior public and private schools, sets it apart and establishes the township's unique identity.

The Township continues to promote sound fiscal policy while maintaining appropriate levels of service to meet the needs of its growing population. Public utilities infrastructure, police, fire and emergency services, parks, recreation and senior services, as well as planning, building inspection and administrative services are all designed to provide residents with the full-service amenities of a modern municipality in a cost effective, fiscally responsible and sustainable manner.

Principal Land Uses

While the commercial base of White Lake Township continues to grow, the principal land use within the Township remains single-family residential. Based on existing land use data from Oakland County Economic Development and Community Affairs, 35.2% of the Township's nearly 24,000 acres is developed as single family residential. The second largest land use in the township (in terms of land area) is recreation/open space, comprised of two State Recreation Areas (Pontiac Lake and Highland), a regional Metropark (HCMA's Indian Springs), and an Oakland County-owned golf course (White Lake Oaks). Combined, the recreation/open space land uses within the township comprise over 25% of the land area (6,000 acres). 11% of land within the township (approx. 3,000 acres) was classified as vacant in 2018. The township's commercial, industrial, and office uses comprised 2.5% of the land area in 2018. The majority of the commercial, industrial, and office uses in White Lake Township are located along the M-59 corridor, although some are scattered elsewhere throughout the township, mostly in the southeast quadrant. There is also a small industrial concentration in the Township's northeast corner. The 21 lakes within White Lake Township comprise almost 11% of its total land area. Figure 1-1 displays the 2018 Existing Land Use Map.

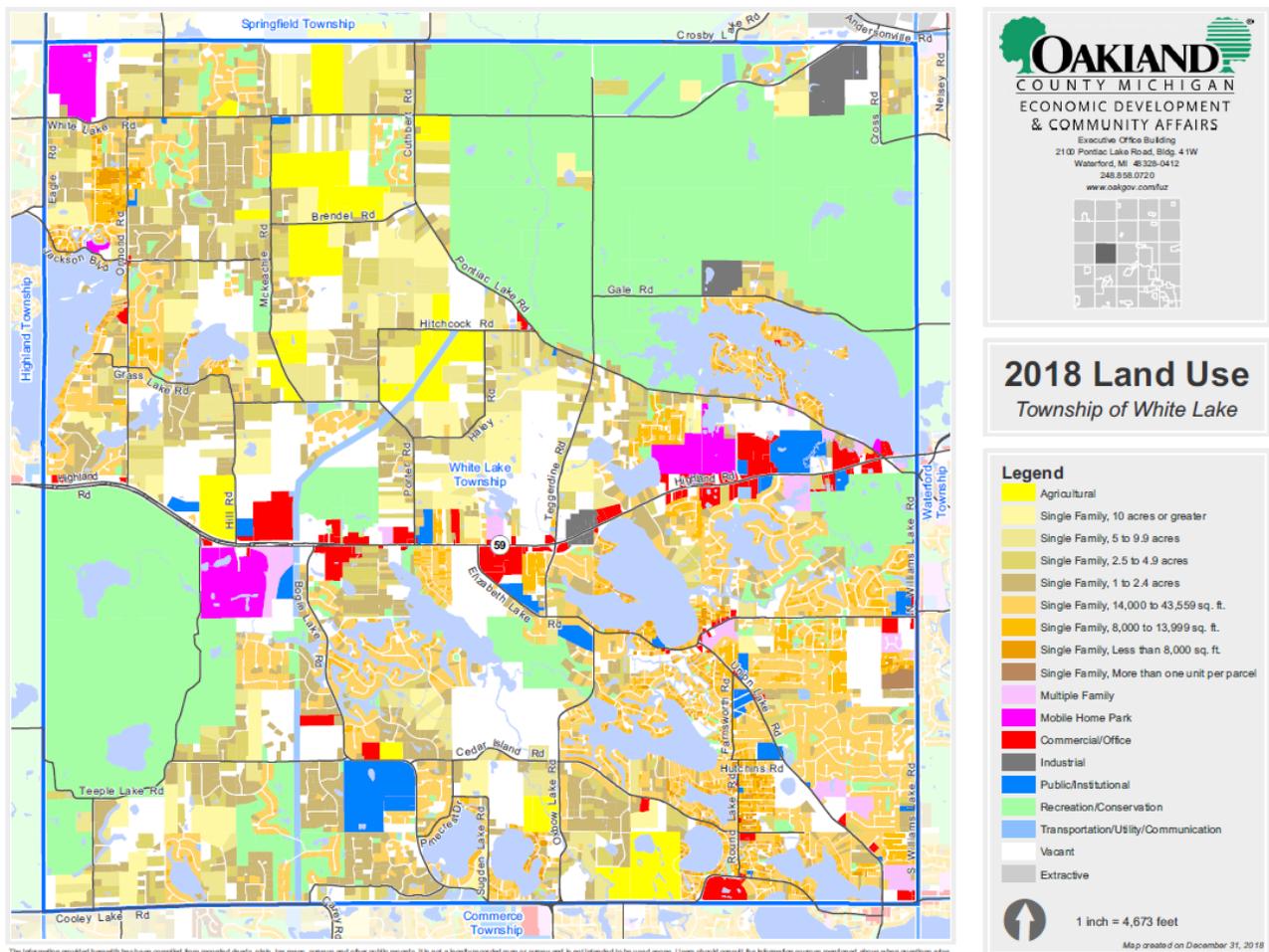
Population

As of the 2010 Census, the population of White Lake Township was 30,019, a 6.4% increase from the 2000 Census (28,219). Population projections created by the Southeast Michigan Council of Governments (SEMCOG) estimate that the population of White Lake Township will only increase slightly over the next twenty years with a forecasted population of 31,578 in 2030. This projection is subject to change based on social and economic factors.

Employment

SEMCOG Community Data for White Lake Township shows the two highest employment-sectors within the township to be Retail Trade (approximately 21% of total employment) and Information and Financial Activities (approx. 15%).

FIGURE 1-1. EXISTING LAND USE, 2018



1c. Overview - CIP Process Overview

Background

The development and the adoption of a CIP is driven by a statutory requirement at the State level. The State of Michigan has set forth the requirement for a CIP under the Michigan Planning Enabling Act, Act 33 of 2008. This reporting requirement for townships was effective September 1, 2008. The following excerpt from the Act 33 sets forth the requirement of a township to adopt a CIP:

“(2) Any township may prepare and adopt a capital improvement program. However, subsection (1) is only mandatory for a township if the township, alone or jointly with 1 or more other local units of government, owns or operates a water supply or sewage disposal system.”.

The contents of the CIP are set forth under the Government Accounting Standards Board Statement 34 that basically requires the CIP to report on the value of their infrastructure. GASB 34 requires state and local governments to begin reporting all financial transactions, including the value of their infrastructure assets, roads, bridges, water and sewer facilities, and dams, in their annual financial reports on an accrual accounting basis.

The Charter Township of White Lake is not a road agency under Public Act 51 of the laws of the State of Michigan. Accordingly, public road and bridge projects are not reported in this CIP. **All other infrastructure components with construction costs in excess of \$50,000 per year are reported in this CIP.**

The following sections outline the Program Areas of the White Lake Township CIP:

1. Data Collection Process
2. Data Compilation Process
3. CIP Adoption Process

PROGRAM AREAS

The components of the CIP are compiled and reported by Program Areas. The following table (Figure 1-2) displays the Program Areas used in this CIP (each assigned with a color). These program areas represent the stakeholders in the CIP.

FIGURE 1-2. CIP PROGRAM AREAS	
Label	Definition / Description
BP / PK	Bike paths, trail ways, and park facilities/services
FA	Township-owned buildings and facilities (offices, storage buildings, museums, etc.)
FD	Fire protection / EMS facilities and equipment
IS	Internal support services (IT, GIS, fleet vehicles, communications, etc.)
PD	Police Department facilities and equipment
SS	Sanitary sewerage disposal system
WS	Water supply system

1. Data Collection

Each of the stakeholders outlined above has either a master plan or schedule that defines the needs and resource level within their respective area of responsibility. This information is in varied formats and cannot be readily compiled without a significant amount of interpretation. To resolve this interface situation, standard forms were created that allow the stakeholders to define their projects and resource allocation levels. The standard forms used for data collection are found in the Appendix. At a meeting with the stakeholders, the CIP process and the forms were explained in detail along with a request for the forms to be filled out based on what information is currently available. The information generated from these forms has been systematically compiled as the core of the CIP. A definition of the forms is provided as follows:

- **Project Application Form** - Consists of project descriptions, schedules, necessity, and possible sources of funding. The information provides an understanding of the overall scope of each project and how it is valued within its program area and within the Township. While stakeholders may be aware of major projects further out on the horizon, only those planned for within the six-year window of the 2020-2025 CIP were included.
- **Project Cost Detail Form** - Consists of a matrix of six (6) budget years across the top of the form and a listing of costing components along the side of the form. The form is split into two (2) parts; the upper half is the capital cost for the project and the lower half is the cost of operations or maintenance for that project if applicable. Recognition of the operations and maintenance costs of a project is a valuable tool in forecasting future needs for resource allocation. Investment in a new facility is only worthwhile if there are funds available to operate and maintain it.

- **Project Rating Form** - Used to rate both the importance and impact of a project within its program area and within the Township (an “apples-to-apples” comparison). The rating number is not an absolute in itself but is important in distinguishing between projects that are similar in scope. The ratings are weighted with emphasis given to those projects that are mandated by law, by agreement, or because they are a matter affecting health safety and welfare.

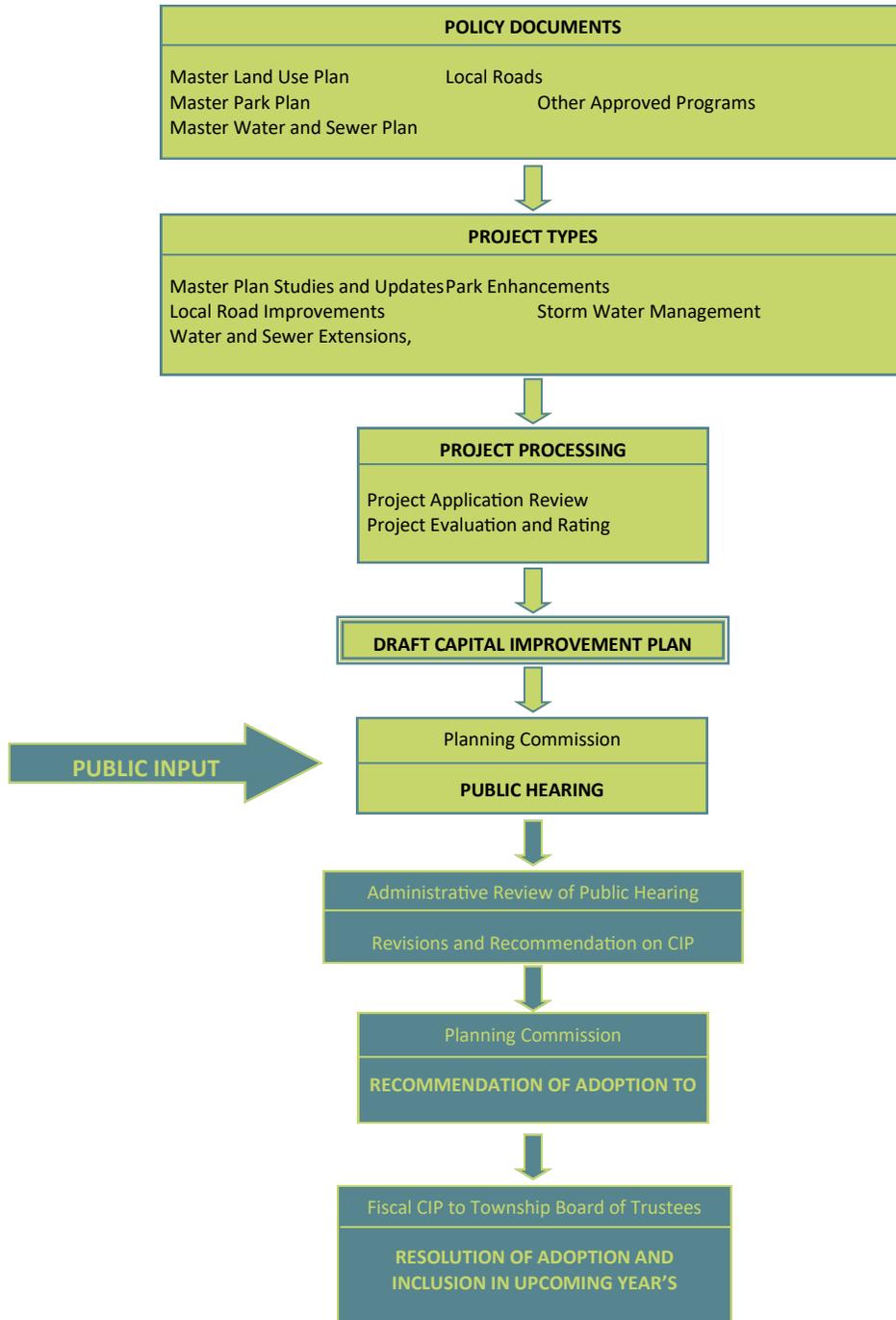
2. Data Compilation

The information received from the stakeholders has been compiled into a Project Summary Worksheet. This worksheet contains all of the projects in the CIP over six (6) budget years with a cost summary of each budget year by program area and for the entire CIP. Included with the worksheet is the listing of possible funding sources and an estimate of the Township’s share for each project. The project summary worksheet can be found in the Appendix of this CIP.

3. CIP Adoption Process

The adoption process involves a public hearing to solicit citizen input. The CIP will then be modified (if necessary), approved by the Township Planning Commission (via a formal recommendation for approval to the Township Board), and forwarded to the Township Board for adoption. Adoption of the CIP by the Township’s Board of Trustees does not constitute an authorization to commit resources to any project. This approval is recognition of a plan for projects within the community that may move toward implementation in the future. The projects included within Year 1 of the Capital Improvement Plan potentially form the basis for the upcoming year’s capital projects budget. An outline of the process is displayed in Figure 1-3 on the following page.

FIGURE 1-3. CIP ADOPTION PROCESS



2. Existing Capital Facilities

In developing a Capital Improvements Plan, communities often find it essential to develop an inventory of their existing capital facilities. Before a community develops a list of “What we need”, it is important to first look at “What we have”. As stated in White Lake Township’s Master Plan, “A municipality’s public facilities are an important part of community life and are directly related to important issues such as quality of life and protection of the public health, safety, and welfare.” The following is a summary of White Lake Township’s major capital facilities and their current condition (where applicable), as determined by the directors of the respective departments. The location of existing Township facilities is noted on the Existing Facilities Map (Figure 2-1).

White Lake Township Hall

7525 Highland Road

Year Built: 1949

Last Major Improvement: 1996

Houses: Supervisor, Clerk, Treasurer, Assessing, Building, Planning, Water, Sewer, Maintenance

Condition: Fair

Extent of Use: Heavy



White Lake Township Fleet Vehicles

Includes: Administrative vehicles, inspection vehicles; does not include Fire Dept. vehicles

Year Acquired: Varies

Condition: Varies

Extent of Use: Varies

Average Duty Cycle: Approximately 7 years



Fire Hall Number 1 (Headquarters)

7420 Highland Road

Year Built: Unknown

Last Major Improvement: Parking Lot Replacement

Serves: M-59 corridor; northeast and southwest quadrant

Condition: Fair

Extent of Use: Heavy



Fire Hall Number 2

Address: 860 Round Lake Road
Year Built: Unknown
Last Major Improvement: None
Serves: Southeast quadrant
Condition: Fair
Extent of Use: Heavy



Fire Hall Number 3

4870 Ormond Road
Year Built: Unknown
Last Major Improvement: None
Serves: Northwest quadrant
Condition: Fair
Extent of Use: Moderate



White Lake Township Police Station

7525 Highland Road
Year Built: approx. 1950
Last Major Improvement: 2001 (expansion)
Condition: Good
Extent of Use: Heavy



White Lake Township Police Garage

Location: Behind Police Station
Year Built: 2004
Last Major Improvement: None
Condition: Good
Extent of Use: Heavy



White Lake Township Police Communications System

Year Acquired: New in 2010
Last Major Improvement: None
Condition: Excellent
Extent of Use: Heavy



White Lake Township Police Vehicles

Includes: 15 Vehicles
Year Acquired: Varies
Condition: Excellent
Extent of Use: Heavy



Township Office Annex

7527 Highland Road
Year Built: 1985
Last Major Improvement: 2011
Condition: Excellent
Extent of Use: Heavy



Dublin Community Senior Center

685 Union Lake Road
Year Built: approx. 1950
Last Major Improvement: 2001
Condition: Excellent
Extent of Use: Heavy



Water Tower 1

360 Woodsedge Drive
Year Built: 1994
Last Major Improvement: 2007
Condition: Good
Extent of Use: Heavy



Water Tower 2

6055 Highland Road
Year Built: 2004
Last Major Improvement: None
Condition: Excellent
Extent of Use: Moderate



White Lake Township Water System

Includes: Water mains, wells, land, well houses and pump stations, generators

Year Built: Ongoing

Last Major Improvement/Extension: 2017 Iron Filtration

Condition: Varies; primarily Good to Excellent

Extent of Use: Varies; primarily Moderate to Heavy



White Lake Township Sanitary Sewer System

Includes: Phase I sewer/appurtenances, Pontiac Lake sewer/appurtenances, Elizabeth Lake/M-59/Meijer sewer/appurtenances

Year Built: Ongoing since 1998

Last Major Improvement/Extension: 2012

Condition: Good to Excellent

Extent of Use: Light to Moderate



White Lake Community Hall

Address: 7500 Highland Road

Year Built: 1875 (State-designated historic site)

Last Major Renovation: 2013 (Interior)

Condition: Good

Extent of Use: Light



Fire and EMS Equipment

Includes: Five pumpers, three tankers, two ambulances, one heavy rescue, five fleet vehicles, and breathing apparatus

Year acquired: Varies; between 1995 and 2018

Condition: Varies; from Good to Excellent

Extent of Use: Varies; primarily Moderate to Heavy



White Lake Township Clerk's Equipment

Includes: Voting tabulation machines (14)

Voter assist terminals (12)

Year acquired: 2018

Condition: Excellent

Extent of Use: Varies



White Lake Charter Township

Hidden Pines Park

Location: Intersection of White Lake Road and Hidden Pines Drive.

Size: 9 Acres

Includes: One (1) Baseball Field and parking area.



Township-Owned Land

Total acreage: approx. 94 acres (including Township parks)



Judy Hawley Park

Location: Behind Township Hall, just east of the Township Library

Size: 12 acres

Includes: Soccer fields, pavilion, play structure, basketball courts, sand volleyball court, pathway, and horseshoe pits.



Ferdinand C. Vetter Park

Location: Behind Dublin Community Center on Union Lake Road

Size: 6 acres

Includes: Baseball field, picnic shelter, pathway, and play structure



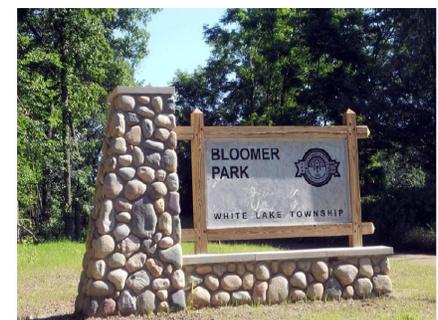
Bloomer Park

Location: West side of McKeatchie Road, between

Grass Lake and Jackson Roads

Size: Approximately 28 acres

Description: Picnic shelter, scenic overlook, and nature trails

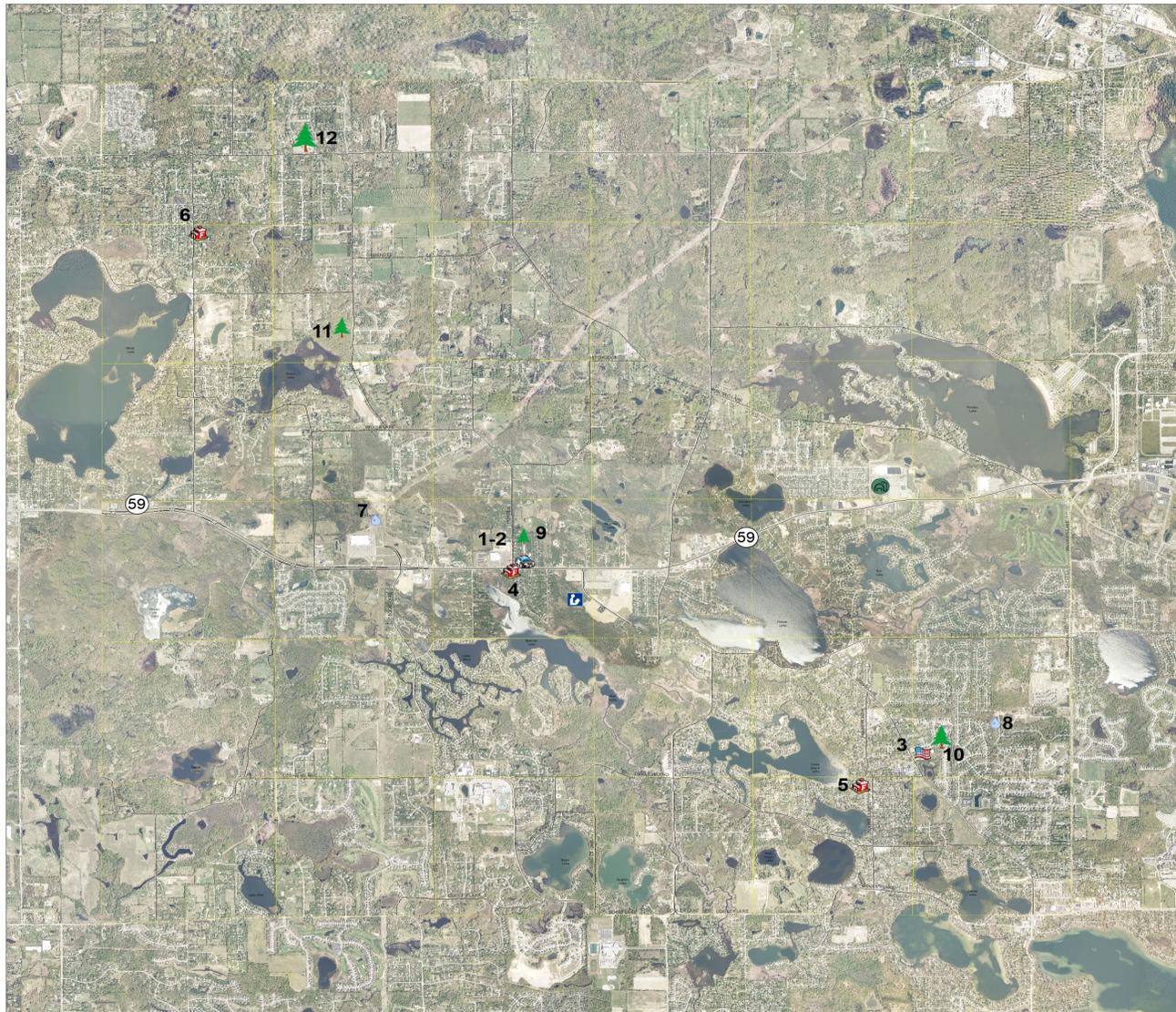


White Lake Charter Township

White Lake Township Library
11005 Elizabeth Lake Road
Year Built: 2019
Condition: Excellent
Extent of Use: Heavy



FIGURE 2-1



White Lake Charter Township

Base Map Source: Oakland County Planning
Michigan Geographic Data Library



Existing Facilities

- | | |
|--|--|
| <ul style="list-style-type: none"> Public Facilities 1 Township Municipal Offices 2 Community Hall 3 Dublin Community Center | <ul style="list-style-type: none"> Water Towers 7 Water Tower # 1 9 Water Tower # 2 |
| <ul style="list-style-type: none"> Fire Stations 4 Fire Hall # 1 5 Fire Hall # 2 6 Fire Hall # 3 | <ul style="list-style-type: none"> Township Parks 9 Judy Hawley Park 10 Ferdanand C. Vetter Park 11 Bloomer Park 12 Hidden Pines Park |
| <ul style="list-style-type: none"> Township Library Police Station | <ul style="list-style-type: none"> Fisk Farm |



3. Executive Summary

Stakeholders

The level of input from the stakeholders has greatly contributed toward the formulation of the CIP. Project profiles consisting of the Project Application Form, the Project Cost Detail Form , and the Project Rating Form were received from Parks and Recreation, Library, Senior Center, Police Department, Fire Protection, Facilities, and Water and Sewer Departments. Though some of the information received will require further detail, it is the most current information available until future refinements are made to the project profile.

Project Histories

Just as important as tracking current and future projects is cataloging the past accomplishments of the Capital Improvement Plan. Located in the back of the plan is a Project Histories Summary Table. This table illustrates those past projects that have been completed or canceled. Some projects are changed over time, the original project number may be dropped and new project numbers and created in its place. The Project Histories Summary can be used to track the priorities of the Township over time and can help track overall investment in the community based on geographic regions.

2019 Project Histories

Capital improvements, outlined in the 2019-2024 CIP, completed during 2019 :

- FD-0011 SCBA
- PK-0007 Brendel Lake Campground Acquisition
- WS-0020 Twin Lakes II Well House Upgrades

3. Executive Summary

Projects

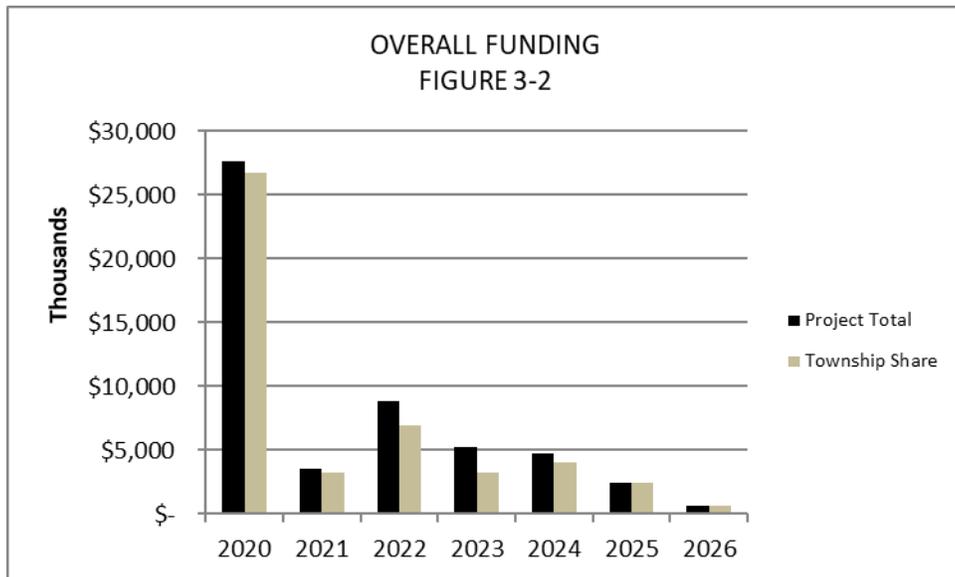
Review of the Project Summary Worksheet (found in the Appendix of this report) indicates that there are several individual projects located in the same geographic area. There are potential cost savings that can be realized by combining projects. At a minimum, mobilization, traffic control, and restoration are just some of the potential cost savings achieved by combining projects for construction. The potential grouping of projects are identified in Figure 3-1 below:

FIGURE 3-1	
Location	Project Labels
M-59, Teggerdine east 0.3 miles	BP-0003, and PK-00006
Bogie Lake Road, Huron Valley Schools to M-59	BP-0006 and SS-0003

If the funding and timing of these projects can be orchestrated, the savings are significant. The exact savings cannot be determined until a detailed project costing and analysis of the common scope between the projects is performed. Also, in the future other projects such as new facilities can be studied to determine if combining operations can realize a cost savings. Other benefits include providing a list of projects in advance in order to help establish the need for grants and funding opportunities.

Funding

This CIP has many projects that are unfunded. The limitations of funding will likely cause projects to be delayed, deferred or cancelled. Each project has a potential funding source and many are dependent on a contribution from the Township’s General Fund (GF). Many projects list funding sources from State and Federal grant programs, but those grants have not yet been secured. The following chart depicts the relationship between total project costs, and the Township’s share of those costs. Additional revenue for projects that are not completely funded by the Township will come from grants and other funding sources.



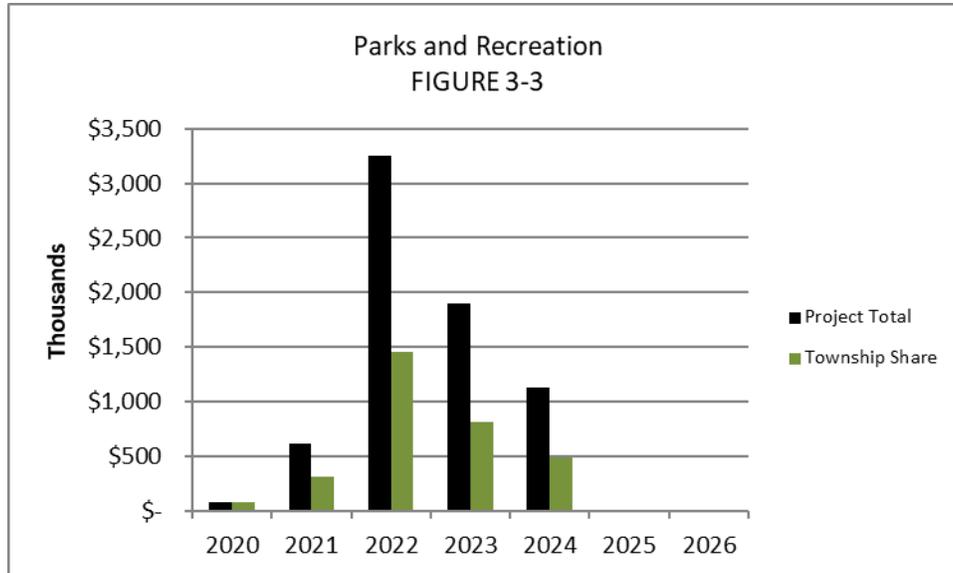
The Township’s General Fund balance at the end of fiscal year 2018 is about \$ 9.3 million. As indicated in Figure 3-2 above, the General Fund balance is inadequate to support the Township’s share of the CIP.

Funding Components

In the following section, each of the funds shown on the Project Summary Worksheet are graphed and reported as part of the CIP with the exception of the projects listed under Internal Services.

Parks and Recreation

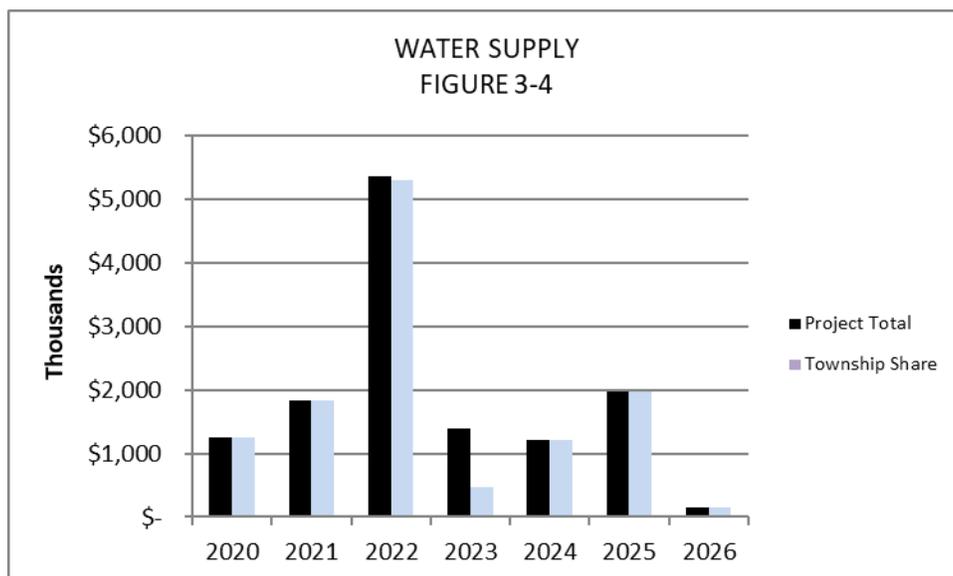
The Parks and Recreation Fund has a fund balance of about \$669,472 as shown in the 2018 Comprehensive Annual Financial Report (CAFR). This fund balance along with a Michigan Natural Resources Water and Land Conservation Grant, and Recreation Passport Grant will be used to leverage park improvement projects.



Careful budgeting of the Parks and Recreation fund will allow the level of service and maintenance of the Townships current and future park facilities to occur until additional parks funding can be established.

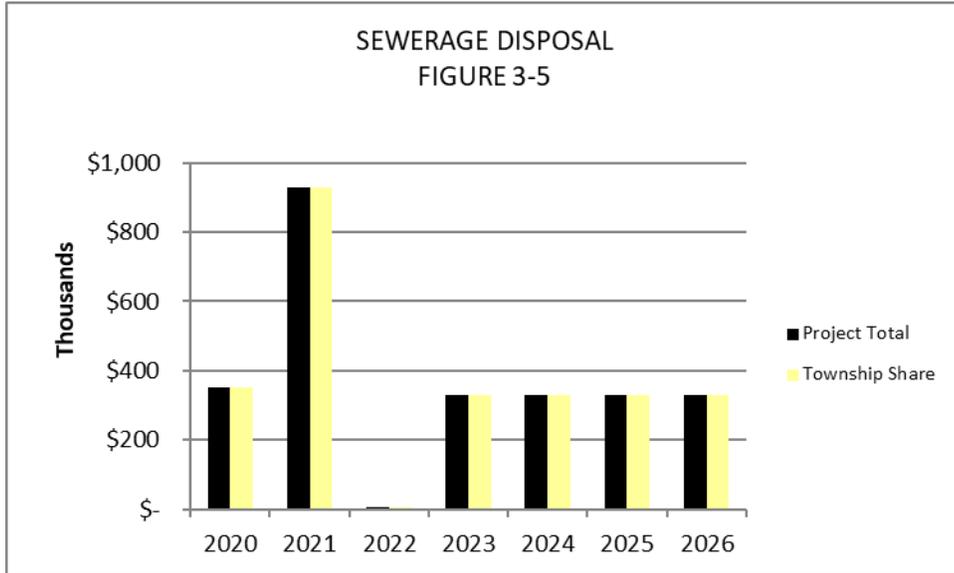
Water Supply Fund

The Water Supply Fund (WF) is an enterprise fund that is not dependent on support from the General Fund. The Water Supply Fund (WF) has a balance of \$4.6 Million as of the close of 2018. Several projects in this program area are funded using the Drinking Water Revolving Fund supplemented by the Water Supply Fund balance.



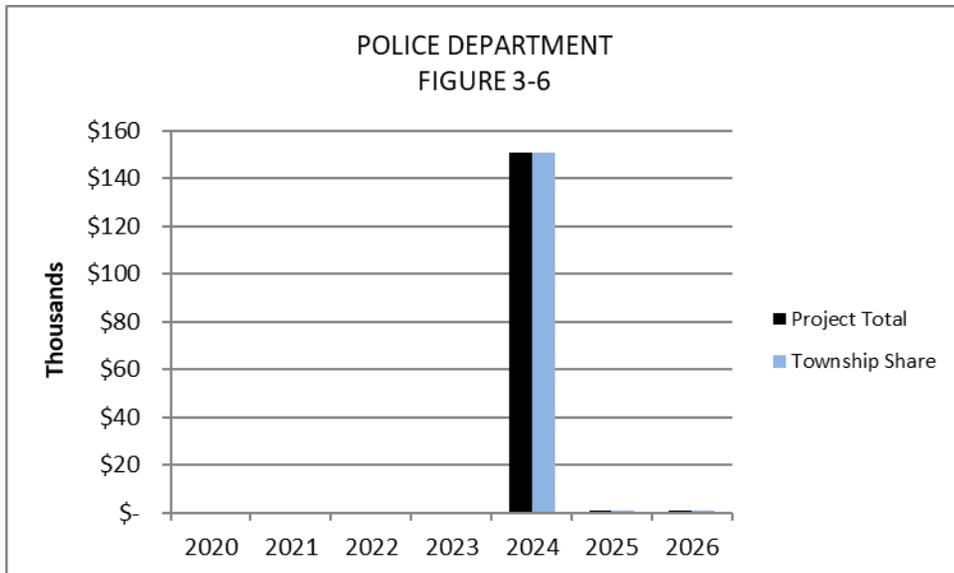
Sewerage Disposal System

Development of Sewer has been done either by private development or special assessment districts (SAD’s). The Township has a Sewer Maintenance Fund with \$1.1 Million dollars as of 2018.



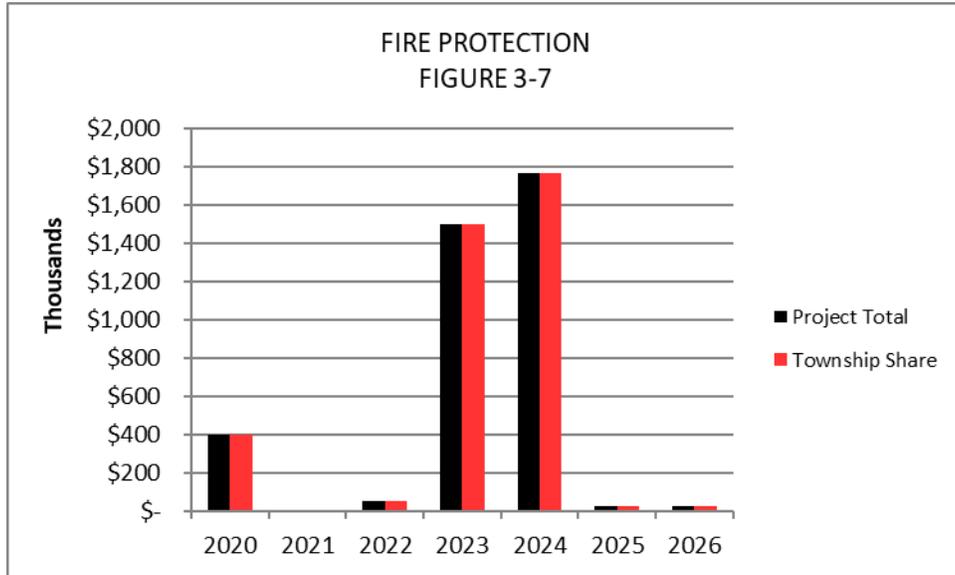
Police Department

The 2018 CAFR reports a balance of \$3.4 million in the Police Fund. The Police Department is currently funded by a Township Millage



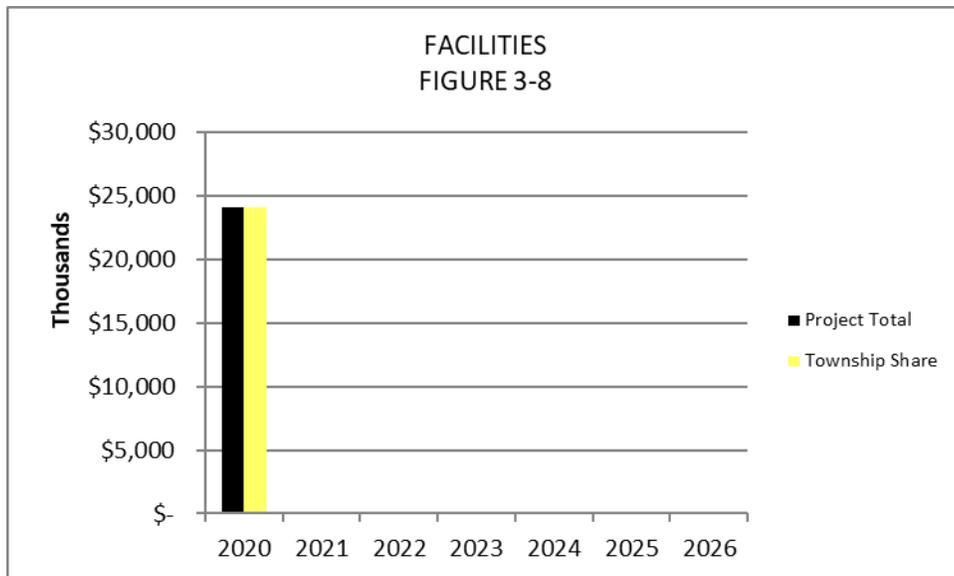
Fire Protection

The Fire Protection Fund has a fund balance of \$5.7 million as reported in the 2018 CAFR. The Fire Protection Fund is supported solely through millage money.



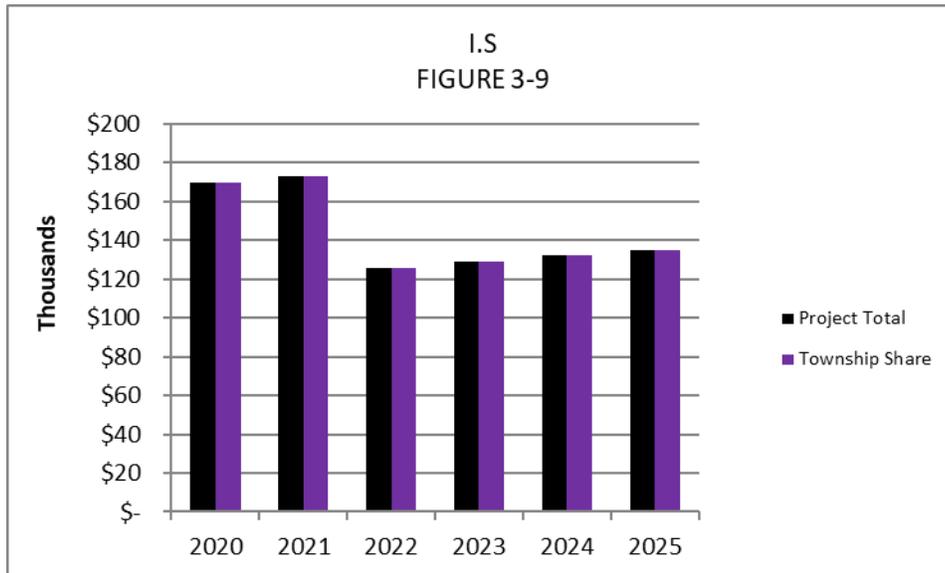
Facilities

The Township Civic Center district will have a new Public Safety Headquarters that will cost \$16 million dollars. Also, a new Civic Center Building to replace the current Township Office at the cost of \$8 million dollars. This money will come from the Capital Projects Fund, and the issuance of bonds. The Township currently has approximately \$1.9 million dollars available for a new Township Municipal Complex in a Building Fund listed in the 2018 CAFR.



Internal Services

The Internal Services used to support the operating departments are included in the CIP due to their costs that are in excess of \$50,000. Because these services are collected as a charge back to the operating departments, there is no special fund involved.



4. CIP Components

The components of the Capital Improvement Plan have been compiled and reported by the following seven program areas, each representing a stakeholder in the CIP.

<p>Section 4a. <u>Facilities</u> FA-0006 Public Safety Headquarters FA-0007 Township Civic Building</p>	<p>Section 4e. <u>Police Department</u> PD-0002 - Mobile Command Center</p>
<p>Section 4b. <u>Fire Protection</u> FD-0001 - Fire Station Land Acquisition FD-0002 - Fire Station # 2 Replacement FD-0004 - Fire Station #1 Replacement FD-0006 - Fire Ladder Truck (1) FD-0008 - Fire Tanker Trucks (2) FD-0009 - Fire Station 3 Addition</p>	<p>Section 4f. <u>Sanitary Sewer Disposal System</u> SS-0005 - Western Outlet Sanitary Extension Phase 2 SS-0006 - Pump Station at Lakeland High school SS-0007 - Upgrades & Equipment Replacement of Meijer Pump Station SS-0008 - Upgrades & Equipment Replacement of 7 Sanitary Sewage Pump Stations SS-0009 - SCADA Equipment to Monitor Sanitary Sewage Pump Stations (8) SS-0010 - Shotwell Gravity Sewer Rehabilitation</p>
<p>Section 4c. <u>Internal Services</u> IS-0002 - Fleet Vehicles (excluding Fire) IS-0003 - Document Management Program</p>	<p>Section 4g. <u>Water Supply System</u> WS-0004 - Twin Lakes Well Replacement and Upgrades WS-0007 - Additional Tank No. 1 Feed WS-0008 - Aspen Meadows Iron Filtration WS-0010 - SCADA Tower Replacement and GENSET WS-0011 - Water Main Extension Bogie Lake Road (M-59 to Cedar Island) WS-0012 - 6 - Inch Diameter Water Main Replacement WS-0015 - Twin Lakes II Well House Updates WS-0016 - Hillview Well House Upgrades WS-0017 - Interconnection of High Pressure Districts (Elizabeth Lake Road) WS-0018 - Residual Chlorine Analyzers at Water Towers WS-0019 - Residential and Commercial Meter Replacement with AMR System WS-0020 - Twin Lakes II Well House Upgrades WS-0021 - Repaint Water Tower 1 WS-0022 - Repaint Water Tower 2 WS-0023 - Backhoe Machine</p>
<p>Section 4d. <u>Parks and Recreation</u> BP-0002 - M-59 Pathway (Phase I) BP-0003 - M-59 Pathway (Phase II) BP-0004 - M-59 Pathway (Phase III) BP-0005 - Union Lake Rd. Pathway BP-0006 - Bogie Lake Rd. Pathway PK-0002 - Four Seasons Trail (Phase I) PK-0003 - Four Seasons Trail (Phase II) PK-0004 - Four Seasons Trail (Phase III) PK-0005 - Brendel Lake Property PK-0006 - Oxbow / M-59 Park PK-0008 - Hidden Pines Park PK-0009 - Teggerdine Trail Design PK-0010 - Bloomer Park (Phase II) PK-0011 - Community / Central Park</p>	

Funding Sources Abbreviations

Building Authority	BA
Drinking Water Revolving Fund	DWRF
Fire Protection Fund	FPF
General Fund	GF
Federal Housing and Urban Development	HUD
Michigan Dept. of Transportation Enhancement Grant	MDOT-EG
Michigan Natural Resources Trust Fund Grant	MNRTFG
Michigan Safe Routes to School Program	MSRSP
Parks & Recreation - Special Township Revenue Fund	P&RF
Road Commission Tri-Party Program	RCOCTP
Special Assessment District	SAD
Sewer Fund (Township Enterprise Fund)	SF
State Revolving Fund	SRF
United States Dept. of Transportation	USDOT
Drinking Water Revolving Fund	DWRF
Water Supply Fund (Township Enterprise Fund)	WF

4a. CIP Components - Facilities

Overview

Facilities play an important role in providing an environment that is conducive to supporting the various operating departments that provide services directly to the residents in the Township. Facilities can be new building projects, building renovations, building expansions or the cost of services to support the existing buildings if this cost is significant.

Identification of significant costs to support existing building operations is an important tool in determining the cost effectiveness of operating existing public buildings.

Funding for supporting existing Facilities is normally derived by either a charge back to the budgets from the operating departments or done as a direct operating cost to General Fund.

Funding for new Facilities can be accomplished by a building authority. The Township has a legally established Building Authority that would be the governing body to finance and construct any new public buildings in the Township.

On the following page, each of the Facilities projects are listed along with their costing and funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY FACILITIES (FA)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FA-0006	Public Safety Headquarters	New Construction	110	Grant, GF, Bond Issue, PDF, FPF	\$16,000,000	\$16,000,000	\$--

Project Description

This building project is for the construction of a combined Police and Fire Headquarters Building to be located on Elizabeth Lake Road. The project cost includes the 40,00 square foot building ,and the associated site work.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0007	Township Civic Building	New Construction	96	Grant, GF, Bond Issue	\$8,000,000	\$8,000,000	\$--

Project Description

The Township Civic Building will replace the 70 year Township Office Building (circa 1949) with a modern facility that will accommodate the Townships current needs. The building will be approximately 30,000 square feet.

4b. CIP Components - Fire Protection

Overview

Fire Protection provides a variety of vital services to Township residents. Fire Protection facilities are provided at several locations within the Township. In the CIP, new Fire Protection facilities, new Fire protection equipment and new Fire protection vehicles are included under this section.

Fire Protection is principally funded by a Township Millage. Potential sources of funding for projects are the Fire Protection Fund balance, bond issue, or grants. Another possibility would be to use the Township's Building Authority to finance new fire stations.

On the following pages, each of the Fire Protection projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
CAPITAL IMPROVEMENTS PLAN
PROJECT SUMMARY
FIRE PROTECTION (FD)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0001	Fire Station Land Acquisition	Land Acquisition	113	Grant, Bond Issue, BA	\$500,000	\$500,000	\$--

Project Description
Purchase a 2 to 4 acre property, for future fire station.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0002	Fire Station #2 Replacement	New Construction	140	Grant, Bond Issue, BA	\$1,600,000	\$1,600,000	\$--

Project Description
Construct a satellite fire station with living quarters and three bays.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0006	Fire Ladder Truck	New Equipment	96	FPF	\$850,000	\$850,000	\$--

Project Description
100-foot fire-fighting ladder truck.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0008	Fire Tanker Trucks (2)	New Equipment	106	FPF	\$700,000	\$700,000	\$--

Project Description
Replacement of 1997 Pierce Dash tanker truck.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
FD-0009	Fire Station 3 Addition	New Construction	112	GF	\$900,000	\$900,000	\$--

Project Description
Restoration and Addition to the Existing Fire Station 3.



4c. CIP Components - Internal Services

Overview

Internal Services play an important role in supporting the various operating departments that provide services directly to the residents in the Township. While Internal Services in itself is not a “project”, the cost of this internal support is significant and bears inclusion as part of the CIP. Internal Services in this CIP are defined as computer networks, geographical information service (GIS), document storage, communications and fleet vehicles.

There is no dedicated fund for Internal Services. Funding for Internal Services is normally derived by a charge back to the budgets from the operating departments that use or are supported by these services.

On the following page, each of the Internal Services projects are listed along with their costing and funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
CAPITAL IMPROVEMENTS PLAN
PROJECT SUMMARY
INTERNAL SERVICES (IS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
IS-0002	Fleet	New Equipment	80	PD / GF	\$ 783,000	\$ 783,000	\$--

Project Description

Replacement of cars and trucks (excepting Fire Department) on an annual basis to systematize the vehicle replacement process. Estimates are for a combination of three (3) cars and two (2) trucks each year.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
IS-0003	Document Management Program	Equipment / Professional Services	90	GF	\$100,000	\$100,000	\$--

Project Description

Project includes providing Township Departments with the necessary software, and hardware needed to continue digitizing the Townships document files. Project also includes funding for contracting with private firms to help expediate the process.

4d. CIP Components - Parks & Recreation

Overview

The Parks and Recreation Master Plan provides a variety of services to Township residents. Parks and Recreation is principally funded by a non-major special revenue fund. Potential funding for projects can be from Parks and Recreation fund balance, grants such as Michigan Department of Natural Resources Trust Fund, County based tri-party funding, Michigan Safe Routes to School Program, Michigan Department of Transportation Enhancement Grant, Federal Housing and Urban Development.

On the following pages, each of the Parks and Recreation projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY PARKS AND RECREATION (BP and PK)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0002	M-59 Pathway (Phase I)	Rehabilitation	98	MDOT-EG; P&RF	\$454,000	\$154,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0003	M-59 Pathway (Phase II)	Rehabilitation	98	MDOT-EG; P&RF	\$453,000	\$153,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0004	M-59 Pathway (Phase III)	Rehabilitation	98	MDOT-EG; P&RF	\$452,000	\$152,000	\$300,000
<p><u>Project Description</u> An important, long term, high-priority objective is the development of a Township-wide system of pathways connected to the regional network. Renovation of the M-59 pathway is an essential element that will connect future north-south routes, for example, Bogie Lake Pathway to the Four Seasons Trail.</p>							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0005	Union Lake Road Pathway	Rehabilitation	98	MNRTFG; RCOCTP; P&RF	\$597,000	\$347,000	\$250,000
<p><u>Project Description</u> The Union Lake Road corridor is the area of White Lake that contains the highest density of residential development in the Township. A pathway along the corridor is critical to provide residents with safe, non-motorized access to the homes, churches, schools, parks, retail, and other places in the area.</p>							

White Lake Charter Township

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
BP-0006	Bogie Lake Road Pathway	New Construction	83	MDOT-EG; P&RF; MSRSP	\$1,303,000	\$703,000	\$600,000

Project Description

An Important, long term, high-priority objective is the development of a Township wide system of pathways connected to the regional network. This pathway provides the north-south connection from M-59 (north) to the Township's southern boundary and connects a complex of 3 schools to neighborhoods throughout the length of the corridor.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0002	Four Seasons Trail (Phase I)	New Construction	67	MNRTFG; P&RF; USDOT	\$305,000	\$155,000	\$150,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0003	Four Seasons Trail (Phase I)	New Construction	67	MNRTFG; P&RF; USDOT	\$154,000	\$54,000	\$100,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0004	Four Seasons Trail (Phase III)	New Construction	67	MNRTFG; P&RF; USDOT	\$153,000	\$53,000	\$100,000

Project Description

An important, long-term, high-priority objective is the development of a township-wide pathways system. The ITC Corridor Four Seasons Trail provides a critical link between Pontiac Lake State Recreation Area and Highland Lake State Recreation Area, via the M-59 trailway. This route is included in the Oakland County Greenways Plan and should include state and regional financial participation. Construction of the trailway is expected to occur over several years.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0006	Oxbow/M-59 Park	New Construction	51	MDOT-EG; P&RF; MSRSP	\$964,000	\$464,000	\$500,000

Project Description

Expansion of recreational land is critical to meet the needs of both existing and future residents, especially as vacant land becomes scarcer and the Township's population continues to grow. This mini-park site is anticipated to serve as a rest stop and possibly a trailhead along the M-59 Pathway.

White Lake Charter Township

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0008	Hidden Pines Park Development	New Construction	80	MNRTFG; P&RF, Passport Grant	\$964,000	\$464,000	\$500,000

Project Description

This park would be developed using the Hidden Pines Park Master Plan that was put together using public comment in 2012. This park would offer a baseball field , playground as well as other park amenities. This park would provide residents in the northern portion of the Township with a neighborhood park .

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0009	Teggerdine Trial Development Design	New Construction	78	MNRTFG, P&RF	\$150,000	\$150,000	-

Project Description

The Teggerdine Road Pathway would connect M-59 in the south to Indian Springs Metro Park in the north. This pathway would provide access at certain points to the Pontiac Lake Recreation Area. This pathway would connect to regional pathways through Indian Springs Metro Park, and through the potential development of a trail inside of the ITC transmission corridor in White Lake.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0010	Bloomer Park Phase II	New Construction	60	MNRTFG, P&RF	\$305,000	\$105,000	\$200,000

Project Description

With the completion of Bloomer Parks Phase I redevelopment in 2013 the Township seeks to complete the restoration of the northern half of the park. The second phase of development would include completing the improved pathway network and providing other park amenities including park benches.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PK-0011	Community / Central Park	New Construction	90	MDOT-EG; P&RF; MSRSP	\$600,000	\$250,000	\$350,000

Project Description

Expansion of recreational land is critical to meet the needs of both existing and future residents, especially as vacant land becomes scarcer and the Township's population continues to grow. This mini-park site is anticipated to serve as a rest stop and possibly a trailhead along the M-59 Pathway.

4e. CIP Components - Police Department

Overview

The Township Police Department provides a variety of vital services to Township residents. The costs of operations and the demand for services create financial circumstances that are difficult to predict. In this CIP, special police equipment is listed as projects. Standard police cars are included as Internal Services under Fleet.

Police Department operations are funded by a major special revenue fund. Potential funding for projects can be from Police Fund balance, grants such as Homeland Security, drug forfeitures. The Police also have a four year operating millage that will collect until the end of 2018,

On the following page, each of the Police Department projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY POLICE DEPARTMENT (PD)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
PD-0002	Mobile Command Center	New Equipment	65	Grants; Drug Forfeitures	\$151,000	\$151,000	\$--
<p><u>Project Description</u> A Mobile Command Center is a vehicle-based police facility, usually built around a motor home chassis. It allows command officers to provide on-scene command and control of large scale events or catastrophes.</p>							

4f. CIP Components - Sanitary Sewerage Disposal System

Overview

Sanitary Sewerage Disposal Systems do not currently provide service to all Township residents. Sewerage Disposal Systems that do exist are operated by the Water Resources Commissioner for Oakland County.

The Township does not have a Sanitary Sewerage Disposal Enterprise Fund listed in the 2018 Comprehensive Annual Financial Report (CAFR). The CAFR does list a General Sewer Fund as a non-major special revenue fund for the Township.

Potential sources of funding for projects are the General Sewer Fund, Special Assessment District (SAD), State Revolving Fund (SRF) loan program or contributions from General Fund.

On the following page, each of the Sanitary Sewerage Disposal projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
CAPITAL IMPROVEMENTS PLAN
PROJECT SUMMARY
Sanitary Sewer (SS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0005	Western Outlet Sanitary Extension Phase Two	New Construction	80	SAD, SRF	\$2,240,000	\$2,240,000	\$--

Project Description

The proposed project will provide public force main sewer from the HVS Lakeland Campus north to M-59. The scope of the project will include the placement of 12" HDD directionally drilled pressure sewer (force main) with related appurtenances, pipe rework within the temporary diversion district, traffic control, pavement replacement, and restoration.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0006	Pump Station at Lakeland	New Construction	110	SAD,SRF	\$500,000	\$500,000	\$--

Project Description

Installation of intermediate booster pumping station on sanitary sewer force main consisting of two submersible pumps and building housing controls and generator.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0007	Meijer Pump Station Upgrade/ Replacement	Rehabilitation	130	SAD,SRF	\$250,000	\$250,000	\$--

Project Description

Replacement of pumping equipment, controls, and addition of VFD's (Variable Frequency Drive). VFD's will provide better system control and operational cost savings.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0008	Sanitary Sewer Pump Stations (7)	Rehabilitation	139	SAD,SRF	\$350,000	\$350,000	\$--

Project Description

Replacement of pumping equipment, controls, and addition of VFD's (Variable Frequency Drive). VFD's will provide better system control and operational cost savings.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0009	SCADA Equipment for Pump Stations	New Construction	143	SAD,SRF	\$200,000	\$200,000	\$--

Project Description

Upgrade SCADA at eight sanitary sewage pump stations to provide the Township real time data for operation, alarms, and control.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY Sanitary Sewer (SS)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
SS-0010	Shotwell Gravity Rehabilitation	Rehabilitation	137	SAD, SRF	\$350,000	\$350,000	\$--
<p><u>Project Description</u> Reline nine hundred (900') feet of gravity sewer line along Shotwell, and replace manhole structures as needed.</p>							

4g. CIP Components - Water Supply System

Overview

The Municipal Water Supply System that is owned and operated by the Township and administered by the Water Department does not provide service to all Township residents. The Municipal Water Supply System derives its water from underground aquifers and is used for fire protection and domestic consumption. Many areas of the township currently operate with private wells as their source of potable water supply.

The Township has a Water Enterprise Fund listed in the 2018 Comprehensive Annual Financial Report (CAFR). This Water Fund is managed by the Township Water Department.

Potential sources of funding for Water Supply projects are the Water Fund balance, Drinking Water Revolving Fund (DWRF), revenue bonds, special assessment districts (SAD's), or contributions from General Fund.

In the following page, each of the Water Supply projects are listed along with their costing and potential funding sources.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
CAPITAL IMPROVEMENTS PLAN
PROJECT SUMMARY
WATER SUPPLY (WS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0004	Twin Lakes I Well Replacement and Upgrades	Rehabilitation	126	DWRF, WF	\$260,570	\$260,570	\$--

Project Description

The Township proposes to install a new well and pump at Twin Lakes I well site to replace the smaller capacity well at the site. This will require discussion with the MDEQ water bureau, site investigation using test/production well(s) to evaluate aquifer capacities, engineering design, permitting, identifying funding sources, contract administration and construction

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0007	Additional Tank No. 1 Feed	New Construction	71	WF	\$90,000	\$90,000	\$--

Project Description

Additional water main connection within an easement between Newport Drive and Woodsedge Lane would provide an additional feed to the water storage tank. Currently, the 12-inch water main that fills the tank from Heritage Hills has head losses greater than 5 feet per 1,000 feet when all three pumps at Village Acres are in operation. Previous modeling indicated that the additional feed to the tank would lower the head losses to between 2 feet and 5 feet per 1,000 feed of pipe. This water main improvement would need to be funded by the Township.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0008	Aspen Meadows Iron Filtration and Sewer Connection	New Construction	125	DWRF	\$2,500,000	\$2,500,000	\$--

Project Description

The Township proposes to install a new iron filtration and sewer connection at Aspen Meadows well site. The iron filtration will help reduce iron and manganese at the lower used well house (about 6% of total water pumped) and second highest iron amount.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0010	SCADA Tower Replacement and GENSET	Rehabilitation	80	WF, DWRF	\$52,000	\$52,000	\$--

Project Description

Replace Supervisory Control and Data Acquisition (SCADA) Tower at Water Office with a new tower, romex cable, new cement pad with anchors and locate at least 170 feet to the east on Highland Road. The current tower is twenty five years old and is oxidizing at the bolts and bottom tower brackets. The current tower is near the end of its life cycle. Also, the Water Department will need to upgrade the onsite gen set to backup the SCADA system .

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
CAPITAL IMPROVEMENTS PLAN
PROJECT SUMMARY
WATER SUPPLY (WS)

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0011	Water Main Extension Bogie Lake Road (M-59 to Cedar Island)	New Construction	90	WF,DWRF	\$2,500,000	\$2,500,000	\$--

Project Description

12 Inch Diameter Water Main Extension along Bogie Lake Road from M-59 to the South to Cedar Island Road or Lakeland High School Campus bolts and bottom tower brackets. The current tower is near the end of its life cycle. Also, the Water Department will need to upgrade the onsite gen set to backup the SCADA system .

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0012	6-Inch Water Main Replacement (9,000ft)	Rehabilitation	114	WF, DWRF	\$2,275,000	\$2,275,000	\$--

Project Description

Replace 6-inch diameter water main in Colony Heights, Twin Lakes Village, and Suburban Knolls for better system pressures and fire flows.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0015	Twin Lakes Well House Upgrades	Rehabilitation	108	WF, DWRF	\$200,000	\$200,000	\$--

Project Description

Update controls, piping, and instrumentation to allow efficient operation of the Twin Lakes well house.

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0016	Hillview Well House Upgrades	Rehabilitation	108	WF, DWRF	\$400,000	\$400,000	\$--

Project Description

Update building, controls, piping, and instrumentation to allow efficient operation of the Hillview well house.

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY WATER SUPPLY (WS)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0017	High Pressure Districts Elizabeth Lake Road	New Construction	90	WF, DWRF	\$3,125,000	\$3,125,000	\$--
<u>Project Description</u> The interconnect will allow the high pressure district to utilize both elevated towers for storage at Aspen Meadows and Village Acres well houses for water supply. This will increase system reliability.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0018	Residual Chlorine Analyzer for Water Towers	New Construction	146	WF, DWRF	\$50,000	\$50,000	\$--
<u>Project Description</u> Residual Chlorine Analyzers will allow monitoring of water quality both in an out of the Townships water towers. It will allow adjustments of chlorine feed rates to maintain minimum chlorine residuals throughout the water system as required by regulations.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0019	Meter Replacement	Rehabilitation	82	WF, DWRF	\$750,000	\$750,000	\$--
<u>Project Description</u> The water system meters in older subdivisions are reaching, or exceeding their useful life. As meters age they deteriorate and develop inaccuracies in readings. Replacing meters will provide homeowners with the proper readings and provide accurate billing of water usage.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0021	Repaint Water Tower 1	Rehabilitation	127	WF, DWRF	\$150,000	\$150,000	\$--
<u>Project Description</u> Exterior overcoat polyurethane paint. Dry interior partial repaint							

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY WATER SUPPLY (WS)							
PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0022	Repaint Water Tower 2	Rehabilitation	127	WF, DWRF	\$152,000	\$152,000	\$--
<u>Project Description</u> Exterior overcoat polyurethane paint. Dry interior partial repaint.							

PROJECT NUMBER	PROJECT TITLE	CATEGORY	RATING	FUNDING	PROJECT COST	TOWNSHIP SHARE	OTHER FUNDS
WS-0023	Backhoe Machine	New Equipment	74	WF, DWRF	\$75,000	\$75,000	\$--
<u>Project Description</u> Purchase a Backhoe Machine to assist in day to day department operations.							



Excerpt from the Michigan Planning Enabling Act of 2008:

**MICHIGAN PLANNING ENABLING ACT (EXCERPT)
Act 33 of 2008**

**125.3865 Capital improvements program of public structures and improvements;
preparation; basis.**

Sec. 65.

(1) To further the desirable future development of the local unit of government under the master plan, a planning commission, after adoption of a master plan, shall annually prepare a capital improvements program of public structures and improvements, unless the planning commission is exempted from this requirement by charter or otherwise. If the planning commission is exempted, the legislative body either shall prepare and adopt a capital improvements program, separate from or as a part of the annual budget, or shall delegate the preparation of the capital improvements program to the chief elected official or a nonelected administrative official, subject to final approval by the legislative body. The capital improvements program shall show those public structures and improvements, in the general order of their priority, that in the commission's judgment will be needed or desirable and can be undertaken within the ensuing 6-year period. The capital improvements program shall be based upon the requirements of the local unit of government for all types of public structures and improvements. Consequently, each agency or department of the local unit of government with authority for public structures or improvements shall upon request furnish the planning commission with lists, plans, and estimates of time and cost of those public structures and improvements.

(2) Any township may prepare and adopt a capital improvement program. However, subsection (1) is only mandatory for a township if the township, alone or jointly with 1 or more other local units of government, owns or operates a water supply or sewage disposal system.

History: 2008, Act 33, Eff. Sept. 1, 2008

**Charter Township of White Lake
Capital Improvement Plan – Project Application**

Project Title: [Click here to enter text.](#)
Program Area: [Choose an item.](#)
Prepared By: [Click here to enter text.](#)
Date Prepared: [Click here to enter a date.](#)
CIP ID #: [Click here to enter text.](#)

Project Description: Provide a brief (1-2 paragraph) description of project:

[Click here to enter text.](#)

Planning Context: Is the project part of an Adopted Program, Policy or Plan?

Yes or No

[Choose an item.](#) If yes, identify Program, Policy or Plan

[Click here to enter text.](#)

List the adopted program or policy, and how this project directly or indirectly meets these objectives:

[Click here to enter text.](#)

Planning Context: Is the Township Legally Obligated to perform this service? (E.G. Federal or State Law, Consent Judgment, etc.)

Yes or No

[Choose an item.](#)

If yes, please describe Township's Obligation:

[Click here to enter text.](#)

Schedule: Estimated project beginning and ending dates. If project will take several years to complete, fill out Form 2. If applicable, be sure to include any work done in prior years, including studies or other planning:

[Click here to enter text.](#)

Coordination: Please identify if this project is dependant upon one or more other CIP projects, and describe what the relationship is:

[Click here to enter text.](#)

Project Priority: Low, Medium, High

[Choose an item.](#) Priority within Program Area

[Choose an item.](#) Priority for the Township

Form 1 - Page 1 of 2

Capital Improvement Plan – Project Application

Prior Approval: Is this project included the prior year's budget?
Has this project been approved by the Township Board, Commission or Authority?

Yes or No
Choose an item.
If Yes, Choose an item.

Total Estimated Cost: In today's dollars (Amount shown here should agree with total on Form 2)

[Click here to enter text.](#)
List all funding options available for this project.

[Click here to enter text.](#)

Recommended funding option(s) to be used? (i.e: Operating Revenues, Grants, Fund Balance, Bond Issue etc...)

[Click here to enter text.](#)

Basis of Cost Estimate: Please check the following

[Choose an item.](#)

Impacts. Describe potential loss of service, benefit or opportunity if the project is not included in the C.I.P.

[Click here to enter text.](#)

CHARTER TOWNSHIP OF WHITE LAKE
 Capital Improvement Plan
 Project Cost Detail

Project ID _____
 Category _____

	Prior Year	Budget Year	Budget Year 2	Budget Year 3	Budget Year 4	Budget Year 5	Budget Year 6	Totals	TWP Share
Project Construction Components									
Preliminary Engineering								\$ -	-
Right of Way or Easement Services								\$ -	-
Land Acquisition								\$ -	-
Geotechnical Engineering								\$ -	-
Environmental Services								\$ -	-
Contractor payments								\$ -	-
Construction Engineering								\$ -	-
Depreciable equipment or facilities								\$ -	-
Post Construction Monitoring								\$ -	-
Finance Costs								\$ -	-
Other Construction Costs								\$ -	-
Total Construction Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Costs									
Contracted Services								0	-
Staff								0	-
Routine Maintenance								0	-
Utilities, Insurance, Communication								0	-
Other								0	-
Total Operating Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

White Lake Charter Township

CHARTER TOWNSHIP OF WHITE LAKE
Capital Improvement Plan
Project Evaluation Form

Project ID _____

Rater Name:	Score Range	Rater Score	Weight	Total Points
1. Contribution to Health, Safety & Welfare			5	0
Eliminates a known hazard (accident history)	5			
Eliminates a potential hazard	4			
Materially contributes	3			
Minimally contributes	1			
No impact	0			
2. Project Needed to Comply with Local, State or Federal Law				5
Yes	5			
No	0			
3. Project Conforms to Adopted Program, Policy or Plan			4	0
Project is consistent with adopted City Council policy or plan	5			
Project is consistent with Administrative policy	3			
No policy / plan in place	0			
4. Project Remediates as Existing or Projected Deficiency				3
Completely Remedy Problem	5			
Partially Remedy Problem	3			
No	0			
5. Will Project Upgrade Facilities			3	0
Rehabilitates / upgrades existing facility	5			
Replaces existing facility	3			
New facility	1			
6. Contributes to Long-term Needs of Community			2	0
More than 30 years	5			
21 - 30 years	4			
11 - 20 years	3			
4 - 10 years	2			
3 years or less	1			
7. Annual Impact on Operating Costs Compared to Operating Costs assuming the project proceeds				2
Net Cost Savings	5			
No Change	4			
Minimal increase (>\$25,000)	3			
Moderate Increase (\$25,000 - \$100,000)	2			
Major Increase (>\$100,000)	1			
8. Annual Impact on Operating Costs Compared to Operating Costs assuming the project does not proceed				2
Major Impact (> \$100,000)	5			
Moderate Impact (\$50,000 - \$100,000)	3			
Minor Impact (\$25,000-\$50,000)	2			
Minimal Impact (< \$25,000)	1			
None	0			
9. Service Area of Project				2
Regional	5			
Township-Wide	4			
Several neighborhoods	3			
One neighborhood or less	1			
10. Department Priority			2	0
High	5			
Medium	3			
Low	1			
11. Project Delivers Level of Service Desired by Community			2	0
High	5			
Medium	3			
Low	1			



PROJECT HISTORY

Project Number	Project Title	Category	Rating	Potential Funding Sources	Summary			To Date		Budget Year 2011		Budget Year 2012		Budget Year 2013		Budget Year 2014		Budget Year 2015		Budget Year 2016		Budget Year 2017		Remarks			
					Project Total	Township Share	Other Funding	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share				
PARKS & RECREATION	BP-0001	M-59 Pathway, Across the Huron River (North)	New Construction	99	HUD Grant (\$147,000); P&RF	\$ 201,300	\$ 54,300	\$ 147,000	\$ 19,800	\$ 19,800	\$ 62,500	\$ 15,500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Project Cancelled for new location			
	PK-0001	Bloomer Park Redevelopment	Rehabilitation	72	MNRTFG; P&RF	\$ 444,000	\$ 94,000	\$ 350,000			\$ 30,000	\$ 30,000	\$ 407,500	\$ 57,500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project			
	BP-0007	M-59 Pathway, Across the Huron River (North)	New Construction	99	HUD Grant (\$147,000); P&RF	\$ 226,660	\$ 39,830	\$ 147,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project		
WATER SUPPLY	WS-0001	Mid-East M-59 and Cranberry Meadows Water	New Construction	124	DWRF, WF	\$ 1,481,000	\$ 890,000	\$ 591,000	\$ 192,000	\$ 115,000	\$ 258,000	\$ 155,000	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project		
	WS-0002	Huronale Booster Pump Station	New Construction	96	DWRF, WF	\$ 257,000	\$ 155,000	\$ 102,000	\$ 40,000	\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project		
	WS-0003	East M-59 and Pontiac Lake Road Water Main	New Construction	105	DWRF, WF	\$ 872,000	\$ 524,000	\$ 348,000	\$ 112,000	\$ 67,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project		
	WS-0005	Update the Auto Meter Read System	Rehabilitation	124	WF	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project	
	WS-0009	Hydrant Standardization	Rehabilitation	125	WF, FPF	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Project reduced in scope and value; deleted from CIP	
WS-0013	VFD Installation on seven Well Pumps	Rehabilitation	123	DWRF, WF	\$ 140,000	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project		
WS-0014	SCADA System Updates at seven sites	Rehabilitation	146	DWRF, WF	\$ 52,500	\$ 52,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project		
SEWER	SS-0001	M-59 East Sanitary Sewer	New Construction	101	SRF, SF	\$ 223,000	\$ 223,000	\$ -	\$ 16,000	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project		
	SS-0002	M-59 Mid-East	New Construction	99	SRF, SF	\$ 148,000	\$ 148,000	\$ -	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	Completed project		
	SS-0003	Western Outlet Sanitary Extension, Phase I	New Construction	87	SAD, SRF	\$ 978,015	\$ 978,015	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 928,015	\$ 928,015	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	Completed project		
	SS-0004	Infrastructure Geospatial Mapping	Prof. Services	112	WF, SF, GF	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Project Removed	
P.D.																											
FACILITIES	FD-0003	Fire Station No3 Replacement	New Construction	140	Grant, Bond Issue, BA	\$ 1,351,000	\$ 1,351,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000	\$ 1,300,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	Replaced with FD-0009; Addition to existing Fire Station		
	FD-0004	Fire Station No1 Replacement	New Construction	110	Grant, Bond Issue, BA	\$ 3,131,000	\$ 3,131,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ 3,000,000	\$ 17,000	\$ 17,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	Project Replaced with FA-0005	
	FD-0005	Fire Pumper Truck (x3)	New Equipment	108	FPF	\$ 1,694,000	\$ 1,694,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,680,000	\$ 1,680,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	Completed project		
	FD-0007	Fire Pumper Truck	New Equipment	108	FPF	\$ 439,000	\$ 439,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 425,000	\$ 425,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	\$ 7,000	Project Removed, Combined with FD-0005		
	FD-0010	Ambulances (2 each) , medium duty	New Equipment	117	FPF	\$ 346,000	\$ 346,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 320,000	\$ 320,000	\$ 8,000	\$ 8,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	Completed project		
	FD-0012	Administrative Vehicles (x2)	New Equipment	80	FPF, GF	\$ 60,000	\$ 60,000	\$ -	\$ 60,000	\$ (60,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project	
	FD-0013	Rescue 1 Refurbishment	Rehabilitation	143	FPF	\$ 175,000	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Completed project	
FACILITIES	FA-0001	Multi-Purpose Operation Building	New Construction	99	GF, Bond Issue, BA	\$ 12,000,000	\$ 12,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 5,000,000	\$ 5,000,000	\$ 6,500,000	\$ 6,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Project on-hold being replaced with FA-0004	
	FA-0002	New Township Library	New Construction		GF, Bond Issue, BA																						
	FA-0003	Senior Center Building Addition	New Construction	80	GF, Bond Issue, BA																						
	FA-0004	Township Hall Renovations	Rehabilitation	107	GF, Bond Issue, BA	\$ 7,000,000	\$ 7,000,000																			Project Replaced with FA-0007	
	FD-0001	New Police Building	New Construction	103	Grant, Bond Issue, BA																					Project Replaced with FA-0006	
IS	IS-0001	Digitized Documents (Storage & Retrieval)	Internal Services	80	GF	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	Project reduced in scope and value; deleted from CIP	
	IS-0003	Senior Shuttle Bus	New Equipment	93	GF, Grant, Donations	\$ 130,000	\$ 130,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 11,000	\$ 11,000	\$ 12,000	\$ 12,000	\$ 13,000	\$ 13,000	\$ 14,000	\$ 14,000	\$ 13,000	\$ 13,000	\$ 14,000	\$ 14,000	\$ 14,000		

- Abbreviations**
- Building Authority BA
 - Drinking Water Revolving Fund DWRF
 - Fire Protection Fund FPF
 - General Fund GF
 - Federal Housing and Urban Development HUD
 - Michigan Dept of Transportation Enhancement Grant MDOT-EG
 - Michigan Natural Resources Trust Fund grant MNRTFG
 - Michigan Safe Routes to Schools Program MSRSP
 - Parks & Recreation - Special Township Revenue Fund P&RF
 - Road Commission Tri-party Program RCOCTP
 - Special Assessment District SAD
 - Sewer Fund (Township Enterprise Fund) SF
 - State Revolving Fund SRF
 - United States Department of Transportation USDOT
 - Water Fund Township (Enterprise Fund) WF

PROJECT HISTORY

Project Number	Project Title	Category	Rating	Potential Funding Sources	Summary			To Date		Budget Year 2018		Budget Year 2019		Budget Year 2020		Budget Year 2021		Budget Year 2022		Budget Year 2023		Budget Year 2024		Budget Year 2025		Remarks	
					Project Total	Township Share	Other Funding	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share	Project Total	Township Share		Project Total
PARKS & RECREATION	PK-0007	Brendel Lake Campground Acquisition	Land Acquisition	51	MNRTFG, P&RF	\$ 1,372,400	\$ 483,000	\$ 889,400	\$ -	\$ -	\$ 1,372,400	\$ 483,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	MNRTFG, Foundational Grant Funding(\$500,000)
						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
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WATER SUPPLY	WS-0020	Twin Lakes II Well House Upgrades	Rehabilitation	127	DWRF, WF	\$ 178,000	\$ 178,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 170,000	\$ 170,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	Project Completed
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FIRE PROTECTION	FD-0011	SCBA Replacement	New Equipment	137	FPF, Grant	\$ 856,000	\$ 856,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ 350,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	Project Completed	
	FD-0012	Administrative Vehicles (x2)	New Equipment	80	FPF, GF	\$ 60,000	\$ 60,000	\$ -	\$ 60,000	\$ (60,000)	\$ 60,000	\$ 60,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	FD-0013	Rescue One Refurbishment	Rehabilitation	143	FPF, GF	\$ 60,000	\$ 60,000	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	FD-0014	Rescue Air Boat	New Equipment	75	FPF, GF	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Project Removed
FACILITIES	FA-0005	Municipal Facilities (All Departments)	New Construction	107	GF, Bond Issue, Grant	\$ 20,325,000	\$ 20,325,000	\$ -	\$ -	\$ -	\$ 175,000	\$ 175,000	\$ 20,000,000	\$ 20,000,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	Replaced by FA-006 and FA-007
						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
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- Abbreviations**
- Building Authority BA
 - Drinking Water Revolving Fund DWRF
 - Fire Protection Fund FPF
 - General Fund GF
 - Federal Housing and Urban Development HUD
 - Michigan Dept of Transportation Enhancement Grant MDOT-EG
 - Michigan Natural Resources Trust Fund grant MNRTFG
 - Michigan Safe Routes to Schools Program MSRSP
 - Parks & Recreation - Special Township Revenue Fund P&RF
 - Road Commission Tri-party Program RCOCTP
 - Special Assessment District SAD
 - Sewer Fund (Township Enterprise Fund) SF
 - State Revolving Fund SRF
 - United States Department of Transportation USDOT
 - Water Fund Township (Enterprise Fund) WF