

**Capital
Improvement
Plan
FY18-FY22**

CAPITAL IMPROVEMENT PLAN SUMMARY

The Village has over \$200 million in infrastructure and other capital assets. The Village has made a significant investment in regards to its aging infrastructure. Millions of dollars are spent annually to maintain these assets. Funding for the non-water/sewer capital projects can come from a variety of sources. Motor fuel taxes from the State, grants, impact fees, bond issuances, and general fund reserves help pay for these improvements.

Water/sewer charges to customers along with connection fees pay for the capital items in the water/sewer enterprise fund.

In preparing the Capital Improvement Plan, various factors are used in establishing the priority level for each project. Infrastructure condition, intensity of use, and cost are all contemplated while developing the Capital Improvement Plan.

Listed below are the requested dollar amounts for each of the major classes of fixed assets for the next five years. Each capital asset group has its own page with additional detail on the specific projects on the following pages (pages 60–66).

Non-Water/Sewer

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Streets	2,210,000	2,210,000	2,240,000	2,400,000	2,415,000	11,475,000
Facilities	860,000	1,260,000	700,000	10,120,000	305,000	13,245,000
Stormwater	630,000	325,000	395,000	2,950,000	1,040,000	5,340,000
Transportation	4,525,000	4,500,000	290,000	850,000	4,150,000	14,315,000
Vehicles/Equip	822,000	920,000	1,165,000	670,000	946,000	4,523,000
Total	9,047,000	9,215,000	4,790,000	16,990,000	8,856,000	48,898,000

Water/Sewer

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Water infrastructure	1,725,000	1,785,000	410,000	1,410,000	1,195,000	6,525,000
Sewer infrastructure	990,000	1,335,000	2,235,000	520,000	6,790,000	11,870,000
Other	690,000	755,000	564,500	5,938,000	675,000	8,622,500
Total	3,405,000	3,875,000	3,209,500	7,868,000	8,660,000	27,017,500

STREETS

The primary revenue sources for street maintenance are the motor fuel tax, along with the Road & Bridge property tax (these funds are on pages 39-40). Engineering uses its 5 year Road Improvement Plan using a pavement condition index to guide the process in determining the streets to reconstruct or resurface on an annual basis.

In the FY18 Streets program, the streets to be rehabilitated are in the Loch Lomond subdivision. Additional work this year includes the following:

- Hawley Street—Design work for East Hawley reconstruction
- Pavement Preservation—A Village program implemented last year to supplement the Annual Streets program to extend the useful lives of streets throughout the Village that are in fair to good condition.
- Alley Improvements between James and Norton

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Street Program	2,025,000	2,035,000	2,040,000	2,050,000	2,065,000	10,215,000
Hawley Street	0	0	0	150,000	150,000	300,000
Pavement						
Preservation	150,000	175,000	200,000	200,000	200,000	925,000
Alley Work	35,000	0	0	0	0	35,000
Total	2,210,000	2,210,000	2,240,000	2,400,000	2,415,000	11,475,000

PUBLIC FACILITIES

Requested FY18 Projects

- Mainstreet Enhancement Program—\$35,000
- LED Streetlight Project—\$400,000
- Fire Department—SCBA Equipment—\$350,000
- Gateway Signage- \$100,000
- Fire Department Cardiac Monitor—\$45,000

Requested FY19 Projects

- Gateway Signage—\$100,000
- Police Department Parking Lot Expansion—\$315,000
- Police Dispatch Security Enhancements—\$25,000
- Police Department Card Reader System—\$45,000
- New Public Works Building Design—\$500,000
- Mainstreet Enhancement Program—\$75,000
- Street Light Painting at Grand Dominion—\$70,000
- Fire Department—Station #1 Parking Lot Replacement—\$80,000
- Fire Department—New Roof Station #1—\$50,000

Requested FY20 Projects

- Old Village Hall Rehabilitation—\$425,000
- Police Department Building Mechanical Systems—\$75,000
- Mainstreet Enhancement Program—\$75,000
- Fire Department New Roof Station #2—\$50,000
- Fire Department Cardiac Monitor—\$45,000
- Village Hall Paver/Concrete Sealing—\$30,000

Requested FY21 Projects

- Public Works Facility—\$10,000,000
- Mainstreet Enhancement Program—\$75,000
- Plaza Electricity Upgrades—\$45,000

Requested FY22 Projects

- Police Department Roof, Range Maintenance —\$90,000
- Downtown Streetlight Controllers—\$25,000
- Mainstreet Enhancement Program—\$75,000
- Downtown Streetlight Painting—\$85,000
- Village Hall Paver Sealing—\$30,000

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Old Village Hall	0	0	425,000	0	0	425,000
Police Station	0	385,000	75,000	0	90,000	550,000
Public Works	465,000	745,000	105,000	10,120,000	215,000	11,650,000
Fire Stations	395,000	130,000	95,000	0	0	620,000
Total	860,000	1,260,000	700,000	10,120,000	305,000	13,245,000

STORMWATER

Funding for this fund is primarily from development fees, per Village ordinance. With the recession, these funds have decreased significantly (refer to page 48) for the Stormwater management fund). If stormwater development fees are not sufficient, general fund reserves will need to be used for these enhancements.

General fund reserves are proposed to be utilized for the Seavey Drainage project.

- Seavey Drainageway Improvements—The first phase of this project was completed several years ago. The second phase of the project is at the 100% design phase.. The project is on hold pending scope changes that may occur with prospective development of the parcel located south of the Public Works Complex #1.
- Annual Street Program—Funding allocated toward storm sewer repairs or improvements performed in conjunction with the annual street improvement program
- Capital Maintenance Program— Annual maintenance and assessment of the storm sewer system independent of the annual street improvement program
- Lining of Storm Sewers in the Lange/Anthony/Prospect region
- East Hawley Street Improvements—Design of the Stormwater reconstruction
- Diamond Lake Drain Greenway Culvert Improvements& Intersection Improvements at Allanson/Diamond Lake/Lake
- Local Projects—500 Block of Banbury culvert replacement
- NPDES MS4 Compliance—This annual expenditure provides the Village with a consultant to monitor the Village’s performance related to several goals that the IEPA establishes for best management of the storm sewer system

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Seavey	0	0	0	2,500,000	0	2,500,000
Street Program	325,000	220,000	260,000	260,000	260,000	1,325,000
Mgmt Program	75,000	75,000	100,000	100,000	100,000	450,000
Lining	200,000	0	0	0	0	200,000
East Hawley	0	0	0	55,000	0	55,000
Diamond Lake	0	0	0	0	640,000	640,000
NPDES Permit	30,000	30,000	35,000	35,000	40,000	170,000
Total	630,000	325,000	395,000	2,950,000	1,040,000	5,340,000

TRANSPORTATION

These expenses are for additions to the Village’s transportation system including pedestrian walkways, intersection improvements, bike paths, and new roadways. Historically, the funding source for Public Transportation projects has been transportation impact fees, per Village ordinance. Funding from Canadian National Railroad recently provided the Village with resources to complete various transportation projects. The transportation fund is illustrated on page 46.

Proposed Projects

- Allanson Bike Path—Design/Construction of a bike path on the south side of Allanson Road from Washington Boulevard to Butterfield Road. Grant funding may be available
- Midlothian Multi-Use Path—Construction of a multi-use path from Hillside to Route 176 to allow for improved pedestrian safety
- McKinley Pedestrian Overpass downtown over the railroad tracks. Currently there is grant assistance available to support most of the project’s costs
- Grade Separation at Route 60/83 Railroad Crossing—Costs for IDOT consultant to complete feasibility study on grade separation
- Longmeadow Estates Multi-Use Path-Installation of a pedestrian path from the Longmeadow Estates subdivision to allow for access to the Mechanics Grove school campus
- Route 176 Multi-Use Path—Installation of a path along Route 176 to provide safer pedestrian access along with connectivity to the existing County pedestrian path network. The cost below includes burial of utility lines.
- Allanson/Diamond Lake/Lake Street Intersection Improvements—Design and construction costs related to the realignment of the intersection to improve traffic and economic development

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Allanson Bike Path	0	0	65,000	550,000	0	615,000
Midlothian Multi-Use Path	0	0	0	75,000	650,000	725,000
Pedestrian Overpass	250,000	4,500,000	0	0	0	4,750,000
60/83 Grade Crossing	350,000	0	0	0	0	350,000
Longmeadow Estates Path	275,000	0	0	0	0	275,000
Route 176 Multi-Use Path	3,650,000	0	0	0	0	3,650,000
Allanson/Diamond Lake/Lake	0	0	225,000	225,000	3,500,000	3,950,000
Total	4,525,000	4,500,000	290,000	850,000	4,150,000	14,315,000

VEHICLES/EQUIPMENT

A thorough investigation is done for each vehicle and equipment near the end of its useful life. These purchases are made through the Equipment Replacement Fund (see page 51). This fund was established in 2010 and funded by the General Fund on an annual basis. The budgeted FY2018 funding is \$730,000 with approximately \$530,000 on hand in reserves at the beginning of FY2018. The costs shown in the detailed requests show the current costs in today's dollars and do not reflect future inflationary increases for equipment purchased in outlying years.

See page 51 for the budgeted 2018 purchases.

FY2019 Requests

- Fire Engine (first payment)—\$300,000
- Fire Pickup Truck—\$50,000
- 4 Police Vehicles—\$160,000
- PW 3 Ton Dump Truck—\$175,000
- PW 1 1/2 Ton Dump Truck—\$100,000
- PW Tractor—\$65,000
- PW Pickup Truck—\$45,000
- PW Compressor—\$25,000

FY2020 Requests

- Fire Engine (final payment)—\$300,000
- Fire Ambulance—\$240,000
- 4 Police Vehicles—\$165,000
- 3 PW Vehicles/Equipment—\$460,000

FY2021 Requests

- Fire Incident Command Vehicle—\$70,000
- Fire Admin Vehicle—\$35,000
- 4 Police Vehicles—\$165,000
- 3 PW Vehicles—\$400,000

FY2022 Requests

- Fire Ambulance—\$300,000
- 5 Police Vehicles—\$206,000
- 3 PW Vehicles—\$440,000

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Police	160,000	160,000	165,000	165,000	206,000	856,000
Fire	250,000	350,000	540,000	105,000	300,000	1,545,000
Public Works	377,000	410,000	460,000	400,000	440,000	2,087,000
Other	35,000	0	0	0	0	35,000
Total	822,000	920,000	1,165,000	670,000	946,000	4,523,000

WATER/SEWER CAPITAL IMPROVEMENTS

All of these capital items are paid from water/sewer charges along with impact and connection fees. Whenever possible, water/sewer projects are completed along with street projects for efficiencies. In accordance with the recommendation from the 2014 Rate Study, \$2 million is generated annually to fund these improvements by transferring money to the depreciation account. During FY2014, the Village instituted an overhead sanitary program to assist homeowners with basements that experience flooding due to the back-up of the Village's sanitary sewer system. This program is proposed to continue in FY2018.

FY2018

- North Hills Subdivision Utility Improvements —\$1,250,000
- Sanitary Sewer Lining—\$450,000
- Annual Road Improvement Program —\$850,000
- Overhead Sanitary Sewer Rebate Program—\$20,000
- Replacement Meters—\$40,000
- Maple Avenue Water Main Design—\$90,000
- Grit Building Equipment Replacement—\$240,000
- PAA Disinfection modifications—\$80,000
- Plant Pump Repair Maintenance—\$40,000
- Mundelein/Libertyville Plant Consolidation Study—\$75,000
- Solids Digester Roof— \$70,000
- Inflow/Infiltration Study—\$50,000

Vehicles/Equipment

- 6 Wheel Dump Truck—\$150,000

FY2019

- Maple Avenue Water Main replacement —\$1,250,000
- Aeration Improvements (Biologic Phosphorus Removal) - \$800,000
- New Public Works Building Design—\$250,000
- Replacement Meters—\$40,000
- Annual Road Improvement Program Utility Repairs—\$695,000
- Sanitary Sewer Lining & Repairs—\$350,000
- Water System Control Valves, Pump Repairs, Generator maintenance—\$205,000
- Sewer System Clarifier and Pump Repairs Maintenance—\$85,000
- Overhead Sanitary Sewer Rebate Program—\$25,000

Vehicles/Equipment

- Utility Truck with Crane—\$150,000

FY2020

- Allanson/Diamond Lake/Route 45 Water and Sewer Design —\$25,000
- Annual Road Improvement Program Utility Repairs—\$355,000
- South Lake Street Water Main Relocation—\$90,000
- Sanitary Sewer Lining and Repairs—\$400,000
- Libertyville Plant Consolidation Phase 1—\$850,000
- Overhead Sanitary Sewer Rebate Program—\$25,000
- Replacement Meters—\$40,000
- Pump Repairs at Water Pump Stations (seal leaks)—\$65,000
- GPS Field Locates—Water and Sewer Structures—\$150,000
- Route 83 Water Tower Painting —\$350,000
- Mundelein Gardens Water Main Design—\$50,000
- Clarifier Rehabilitation—\$300,000



WATER/SEWER CAPITAL IMPROVEMENTS

FY2020 (CONT.)

- Water Reclamation Facility Repairs—\$59,500

Vehicles/Equipment

- Jet Vacuum Truck—\$425,000

FY2021

- Allanson/Diamond lake/Route 45 Water and Sewer Construction—\$450,000
- Sanitary Sewer Lining and Repairs—\$290,000
- Private Property Water Mains—\$35,000
- New Public Works Building—\$5,000,000
- Mundelein Gardens Water Main Removal/Relocation/Rehabilitation Construction —\$625,000
- SCADA Improvements—\$50,000
- Water Reclamation Facility Repairs—\$465,000
- Sanitary Sewer Overflow Rebate Program—\$25,000
- Annual Road Improvement Program Utility Repairs—\$355,000
- Division Water Tower Repainting—\$350,000
- Morris Avenue Sewer Design—\$95,000
- Home Crest Subdivision Water Main Design—\$55,000

Vehicles/Equipment

- Pickup Truck—\$48,000

FY2022

- Private Property Water Mains—\$250,000
- Home Crest Subdivision Water Main—\$700,000
- Annual Road Improvement Program Utility Repairs—\$355,000
- Sanitary Sewer Lining and Repairs—\$150,000
- Sanitary Sewer Overflow Rebate Program—\$30,000
- Allanson Water Tower Repainting—\$350,000
- Morris Av. Sanitary Sewer Improvements—\$1,000,000
- Digester Lid Replacements—\$5,500,000
- Water System Master Plan Update—\$75,000
- Water Reclamation Facility Repairs—\$60,000

Vehicles/Equipment

- 2 Pickup Trucks—\$101,000, SUV—\$39,000, Trailer—\$20,000

	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Water Mains	1,725,000	1,785,000	410,000	1,410,000	1,195,000	6,525,000
Sewers	990,000	535,000	1,385,000	520,000	1,290,000	4,720,000
New PW Building	0	250,000	0	5,000,000	0	5,250,000
Digester Maintenance	0	0	0	0	5,500,000	5,500,000
Sanitary Program	20,000	25,000	25,000	25,000	30,000	125,000
Phosphorous Removal	0	800,000	0	0	0	800,000
Facilities	520,000	330,000	964,500	865,000	485,000	3,164,500
Vehicles	150,000	150,000	425,000	48,000	160,000	933,000
Total	3,405,000	3,875,000	3,209,500	7,868,000	8,660,000	27,017,500