



2023 Annual Report

Village of Morton Grove Department of Public Works



Incredibly Close  Amazingly Open

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Front Sign at the Morton Grove Public Works Facility at 7840 Nagle Avenue

Letter From the Director

On behalf of the Village of Morton Grove Department of Public Works team, I am pleased to present our 2023 Annual Report. This report outlines our daily activities, best practices, and programs that ensure the effective and efficient delivery of services to the Village's residents. Our teams' daily efforts are instrumental to the execution of our operational planned work programs, which is linked to the Village of Morton Grove Strategic Plan and the Board of Trustees' broader goals and objectives for the Village.

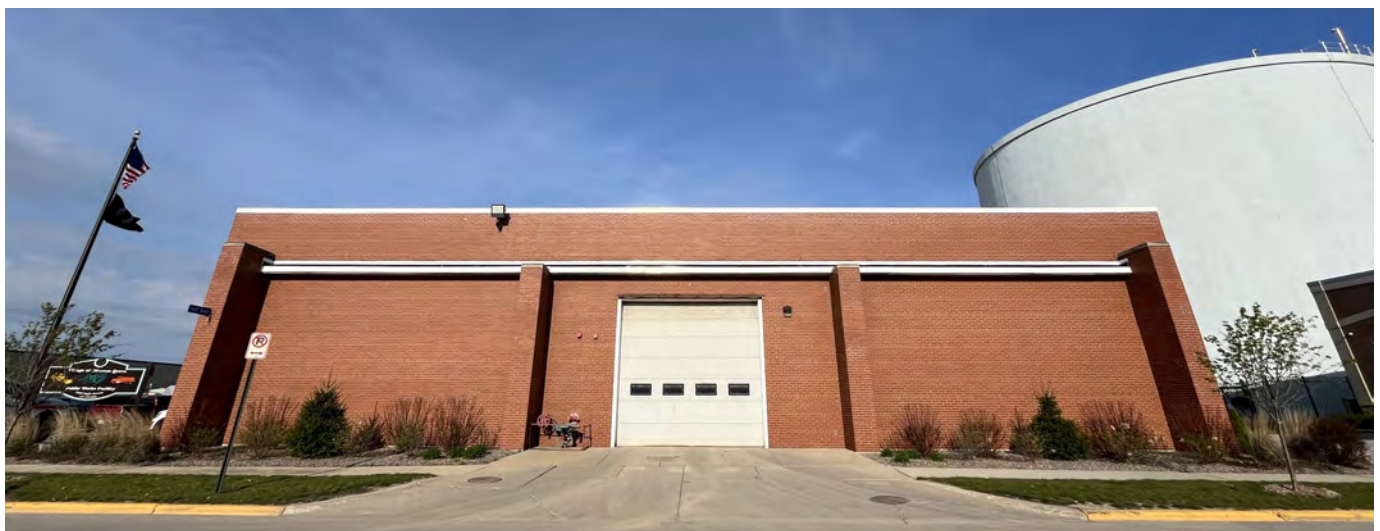
The following pages provide an overview of the Department's mission, core services, resources, and successful efforts over the past year to ensure the infrastructure, facilities, and services provided are dependable, resilient, and ultimately improve the quality of life for the residents of our wonderful community.

The most notable and inspiring parts of working with my colleagues include witnessing their consistent efforts in maintaining the existing infrastructure systems through all types of weather conditions and the development of projects from concept, to design, to completion and public use, all while engaging with the public and overcoming project challenges and complexities.

On behalf of the entire Public Works team, I hope you find this annual report engaging and helpful. If you have comments, suggestions, or questions, I will gladly discuss them with you.

Respectfully,

Michael Lukich
Director of Public Works



Public Works Vehicle Maintenance Garage at 7840 Nagle Avenue

Mission

The Department of Public Works is responsible for the repair and maintenance of all public streets and alleys and the combined public water supply distribution, sanitary sewage, and storm sewer collection systems owned and operated or maintained by the Village. In addition, The Department is responsible for street lighting, street signalization, the maintenance of the Village's automotive fleet, and the public and private planned improvement projects of the Engineering Division.

The top three priorities of the Village of Morton Grove Department of Public Works are:
Our Residents, Our Employees, and Safety.



2006 International Semi & 2012 Mack Semi at the Public Works Facility



Engineering Division

Village Infrastructure Maintenance & Repair

The Engineering Division's primary goal is to assess the condition of Village infrastructure and implement repair and replacement as needed. Division personnel are responsible for the design, inspection, and administration of all construction projects within the Village's rights-of-way, and other properties that include Village ownership and use rights. The Engineering Division strives to proactively evaluate the Village's infrastructure systems, identify long-term maintenance needs, and develop annual programs and projects to maintain or expand infrastructure systems. Funding procurement is completed to obtain state or federal funding. Construction standards for improvements within the Village rights-of-way are established and revised. The Division is responsible for approval of the development of private properties, specifically related to drainage, public utilities, and traffic safety. The geographical information system (GIS), which compiles, analyzes, and maps considerable amounts of Village operational data, is managed by the Division, ensuring accurate data is reflected for current and future development operations. To complete their vast array of work, Engineering Division personnel regularly coordinate with residents, businesses, developers, utility companies, elected officials, county, state and federal regulators, and staff members from other municipalities.



Engineering plan development at the Public Works Facility

Capital Improvement Projects (CIP)

The Engineering Division completes plan and specification development and manages contract administration for Capital Improvement Projects (CIP), which include annual infrastructure maintenance programs and other major infrastructure projects. These projects involve improvement and repair to various aspects of the Village rights-of-way, including but not limited to roadways, alleys, street lighting, traffic signals, water main pipes, and sanitary, storm, and combination sewer pipes. Larger scale infrastructure improvements consist of three phases: project study, design, and construction and may span beyond a single year. Contract procurement for Capital Improvement Projects includes preparing contract documents, bidding, contract award, contract execution, and contract delivery to the appropriate Public Works Division. In 2023, the Engineering Division prepared a total of ten (10) contracts for the Public Works Department Annual Infrastructure Maintenance Programs. Four (4) of the 2023 Annual Infrastructure Maintenance Programs and four (4) large-scale infrastructure projects are detailed on the following pages.



Village engineering personnel & consultants reviewing project closeout at the Harlem Avenue and Shermer Road pavement overlay



Annual programs and projects developed by the Engineering Division maintain or expand infrastructure systems within the Village

2023 Annual Infrastructure Maintenance Programs

Concrete Replacement Program

The Concrete Replacement Program focuses on restoring the condition of concrete sidewalks, curbs & gutters, pavement, and driveways that deteriorate over time. Two overarching goals of the program include repair of broken concrete features (sidewalks, curbs, and pavement) to a serviceable condition and improvement of sidewalks and curb ramps to meet federal and state accessibility standards. The 50/50 Sidewalk and Curb Replacement Program is included as a part of this larger program, allowing residents that meet the criteria to obtain sidewalk concrete replacement at a 50% reduced cost. The 2023 contract included 50 locations associated with public utility repairs and 101 locations generally associated with sidewalk repairs. In 2023, 8,824 square feet of sidewalk, 459 lineal feet of curb, 312 square yards of driveway apron, and 247 square yards of concrete pavement were repaired. Schroeder & Schroeder, Inc. was contracted to complete the work for \$235,991.



Sidewalk Improvement Along Dempster Street (above & below)

2019-2023 Concrete Replacement Program Metrics						
Sidewalk repairs	locations	127	111	111	125	118
	square footage	11,690	7,323	10,357	13,092	8,824
Curb repairs	locations	48	24	39	79	24
	lineal feet	1,347	988	1,196	1,525	459
Driveway apron repairs	locations	23	11	19	22	17
	square yards	299	163	310	356	312
Concrete pavement patches	locations	3	1	3	4	5
	square yards	67	25	70	280	247

2019-2023 Concrete Replacement Program Metrics - Over the past five years, repairs completed in the Concrete Replacement Program have fluctuated based on Village budgetary constraints and material costs.



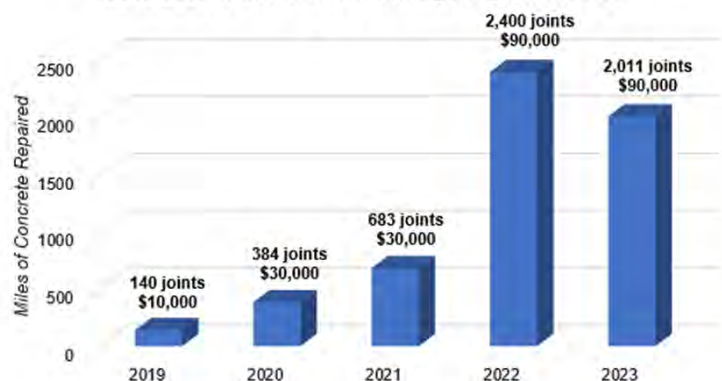
Concrete Saw Cutting Program

The Concrete Saw Cutting Program aims to restore accessibility and eliminate trip hazards on pedestrian routes throughout the Village. Over time, naturally occurring breaks in sidewalk joints can cause an elevation difference in one or multiple portions of a concrete sidewalk. This program cuts and removes the change in elevation, restoring a smoother concrete sidewalk surface. In 2023, approximately 18 miles of sidewalk were surveyed and more than 2,000 joints were repaired. Murphy Construction Services, LLC was contracted to complete the work for \$89,922.



Sidewalk Concrete Saw Cutting

2019-2023 Concrete Saw Cutting Program Metrics



2019-2023 Concrete Saw Cutting Program Metrics - Over the past five years, the Concrete Saw Cutting Program transitioned from a pilot program to a fully-funded Village program after demonstrating substantial results. For the same cost, 2022 yielded an increased number of joints repaired as compared to 2023 due to the lower cost of materials in 2022.

2023 Annual Infrastructure Maintenance Programs

Pavement Marking Program

The Pavement Marking Program involves applying a fresh coat of acrylic paint (for concrete) or thermoplastic (for asphalt) to faded pavement markings on the Village's rights-of-way. In 2023, the visibility of pavement markings at 44 intersections and approximately 5,000 centerline-feet of street segments was improved. Superior Road Striping Inc. was contracted to complete the work for \$48,175.



Thermoplastic Pavement Marking at Central Avenue and Dempster Street



Thermoplastic Pavement Marking at Austin Avenue and Dempster Street



Thermoplastic Pavement Marking at Central Avenue and Church Street (AFTER)

2019-2023 Pavement Marking Program Metrics



2019-2023 Street Patching Program - Over the past five years, Village funding was increased for the Pavement Marking Program in order to continually improve pavement marking visibility throughout the Village.

Street Patching Program

The Street Patching Program restores the surface condition of selected portions of streets in the Village. The Streets Division conducts the annual street survey in the spring each year to determine which areas have the highest priority to receive repair with hot mix asphalt within Village budgetary constraints. The Street Patching Program is then contracted and completed annually during the late summer months. The 2023 Street Patching Program included approximately 140 isolated locations throughout the Village. In 2023, 6,454 square yards of the top 1.5 inches of asphalt pavement was removed and replaced with hot mix asphalt. Peter Baker and Son Company was contracted to complete the work for \$152,941.



2023 Street Patching Program - Installation of Hot Mix Asphalt

2019-2023 Street Patching Program Metrics



2019-2023 Street Patching Program - Over the past five years, Village funding was also increased to expand the Street Patching Program to revitalize more Village streets. An isolated street patch has an estimated surface life of 3-5 years, increasing the viability of Village streets for multiple years to come.

Oakton Street Shared-Use Path

Public Works personnel identified the need for a pedestrian path along the Oakton Street corridor in 2015. The Village Engineering Division initiated the concept design that sparked interest from the Villages of Skokie and Niles to partner in developing a multi-use shared pedestrian path. The approved plan proposed construction of the path in three (3) stages. Stage 1 – The path would begin in the Village of Niles at Vapor Lane along the east side of Caldwell Avenue and continue north to Oakton Street, then east on the south side of Oakton Street to Lehigh Avenue. Stage 2 – The path would be constructed on the north side of Oakton Street from River Drive west to the St. Paul Woods Forest Preserve parking lot. Stage 3 – The path would continue east from the Stage 1 end-point at Lehigh Avenue into the Village of Skokie, connecting to the Illinois Department of Transportation (IDOT) Oakton Street bridge improvement over the Edens Expressway.

Funding for the construction and engineering costs was secured from federal funding (\$3.3MM or 80%) and Cook County funding (\$490,000), with the remaining balance (\$750,000) shared equally by the three Villages.

The design of Stage I was completed in 2022. IDOT contracted with A Lamp Concrete Contractors, Inc. to construct the path for \$1.44MM. Construction work began in March 2023 and was substantially completed in October 2023.



Oakton Street Shared-Use Path (aerial view looking east toward Lehigh)



Oakton Street Shared-Use Path Ribbon Cutting Event



Pace Pulse Ribbon Cutting Event (above & below)



Pace Pulse

Pace began work on four (4) of five (5) total new stations in Morton Grove for a 15-mile arterial bus rapid transit system, referred to as “Dempster Pulse” along Dempster Street. Dempster Pulse provides passengers with a variety of local and regional travel options between Evanston and O’Hare International Airport. The route includes many connections to other Pace and Chicago Transit Authority (CTA) bus routes, CTA Yellow and Purple lines, Metra’s Union Pacific North, Northwest, and North Central Service rail lines.

Stations were constructed for the eastbound and westbound directions at the intersection of Austin Avenue and near the intersection of Waukegan Road. The four stations are operational and substantially complete. The remaining pavement and electrical improvements will be completed in 2024. A station for the eastbound direction of traffic at the intersection of Harlem Avenue had electrical improvements installed, but further development was postponed by Pace until 2024.

The improvements were completed at no cost to the Village. The stations are owned and maintained by Pace.

Arterial Street Improvement Program

This program is intended to rehabilitate Village-owned streets that carry a higher volume of traffic through the Village, generally to or from the adjacent communities. The program is similar to programs which rehabilitate residential streets, however, the cost to rehabilitate higher capacity streets is greater and is typically augmented by federal funding. The desired scope of work includes curb and gutter repairs, utility structure repairs, pavement patching, resurfacing, and incidental restoration.

The entire length of Harlem Avenue and the segment of Shermer Road from Dempster Street to Harlem Avenue were resurfaced. The project was designed by the Engineering Division in 2022. A Lamp Concrete Contractors, Inc. was hired to perform the construction work. The final cost of the project was \$1,305,340. Ciorba Group, Inc. was hired to provide construction engineering services for \$91,679. The work was completed in November 2023.

The State of Illinois distributed funding to municipalities as part of its Rebuild Illinois Capital Program. The Village received \$1,533,585 based upon the state's distribution formula. The funding needed to be used for a bondable improvement with a 13-year service life. This outside funding provided a valuable opportunity for the Village to maintain its most-traveled streets.



Street Paving at Harlem Avenue and Shermer Road
(pictured above and below)



Arterial Street Improvement Program Thermoplastic Pavement Marking

Main Street Water Main Replacement Project

In 2021, the Village replaced a deteriorated water main along Main Street west of Lehigh Avenue. Design work continued on the second phase of the project to replace a deteriorated water main within the Forest Preserve District of Cook County (FPDCC) along the extended centerline of Main Street. Design engineering began in 2022. The project budget and scope of work was set with goals of minimizing impacts to trees within a woodland area.

This project required permitting from the Forest Preserve District. Their feedback made changes to the scope of work and increased project costs. As a result, the project team has decided to reconsider how to complete this project and intends to resume design work in 2024.

Permitting for Future Developments

The Engineering Division is responsible for approving the development of private properties, specifically related to drainage, traffic safety, and public utilities. Engineering plans for private developments are reviewed for conformance to Village codes, policies, and development practices. In 2023, Engineering personnel supported the permit review process for 18 private developments as well as 253 permit reviews for single- and multi-family residential properties, additional private developments, and utility permits. Assistance and technical recommendations are provided to other Village Departments, the Village Board, and the Traffic Safety Commission.

The Traffic Safety Commission

The Engineering Division is the staff liaison for the Traffic Safety Commission, which is comprised of a group of appointed residents. Each Request for Review from the public regarding traffic safety or parking concerns is received and investigated by the Engineering Division, then addressed and resolved by the Traffic Safety Commission. In addition, Plan Commission cases for new developments are prepared for review by Engineering personnel. In 2023, Engineering personnel reviewed nine (9) Plan Commission applications during four (4) Traffic Safety Commission meetings.

Park Villas Townhome Development

In 2022, P&P Properties, LLC received approval from the Village to construct a subdivision with ten (10) townhomes near the intersection of Ferris Avenue and Dempster Street. Utilities were installed in 2023. The site work and town home construction is planned to be completed in 2024.



Park Villas Townhomes Final Site Improvement Plans

Ponto Collection Subdivision Development

In 2023, Varda and Company received approval from the Village to construct a subdivision with six (6) single-family homes near the intersection of Shermer Road and Beckwith Road. Engineering Division staff was involved in the details of the stormwater management of the site and utility layout during throughout the project. Construction of the site work was substantially completed in 2023 with the remainder of work to be completed by Summer 2024, as building improvements are finished.



Ponto Court Subdivision Utility Connections
(aerial view)



New Ponto Court Subdivision
(aerial view taken after utility connections and site work)



Installation of Underground Stormwater Detention Structures
at Ponto Subdivision

Water Division

Water Distribution System

The Water Division is responsible for the operation, maintenance, and repair of the Village-owned water distribution system, including approximately 91 miles of water mains, 8,278 water service lines, 1,050 water main valves, and 1,097 fire hydrants. Water main lines are larger in diameter and are directly connected to fire hydrants. Water service lines are smaller-diameter water lines that branch off of the water main to supply water to Village residences and businesses. The two primary functions of the water distribution system are operational water supply and fire suppression.

Water Main Breaks & Service Line Leaks

Aging infrastructure and fluctuations in air temperature and water pressures are the most significant contributors to the occurrence of water main breaks and water service line leaks. If a water main break or a water service line leak occurs, the Water Division responds to evaluate the area, excavates to access the water line, turns valves to slow (throttle) the flow of water, and completes the necessary repairs. The Water Division is available 24 hours a day, 7 days a week for emergency response to water main breaks, water service line leaks, or any other water-related emergency.



Water Main Break Repair on Merrill Avenue - After excavation, Water Division personnel set up shoring within the hole to protect crew members from trench collapse as they worked to repair the water main break.

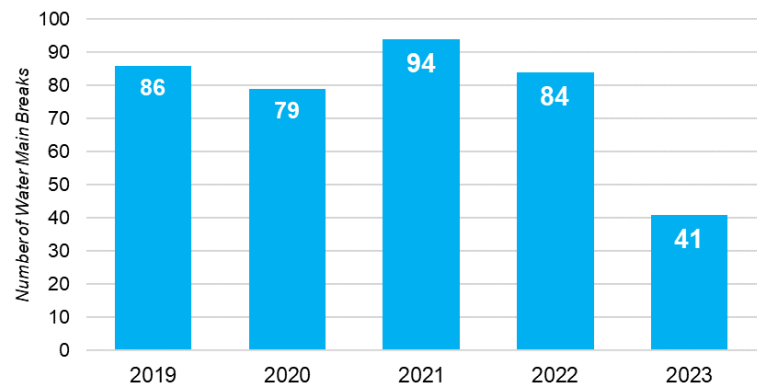
J.U.L.I.E. Locates

The Water Division also processes J.U.L.I.E. (Joint Utility Locating Information for Excavators) tickets. The service locates public utilities in the right-of-way before the start of excavation operations for all public and private improvements in the Village. Once a J.U.L.I.E. ticket is submitted, Water Division personnel are required to respond within 48 hours to mark water and sewer utility lines.



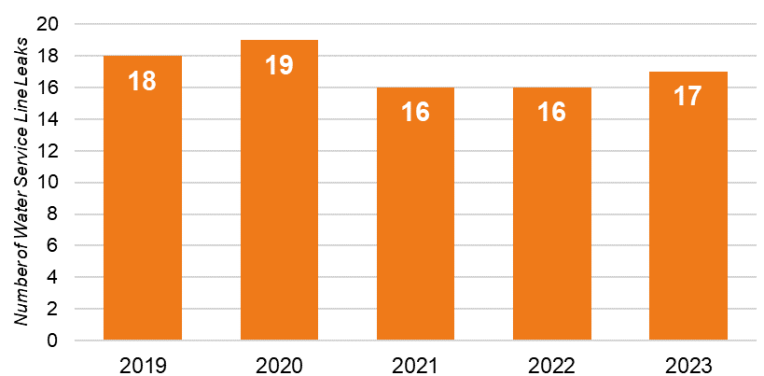
Water Division 2014 Ford Box Truck

2019-2023 Water Main Breaks



2019-2023 Water Main Breaks - In 2023, the Village experienced 41 water main breaks, significantly below the 5-year average of 76.8 breaks per year. December 2023 was the month with the highest yield of water main breaks, with a total of 7 water main breaks occurring that month. The majority of water main breaks occurred on the west side of the Village. In 2023, the risk of water main breaks was mitigated by lowering water pressures within the water distribution system at the North and South Pumping Station and by milder winter temperatures.

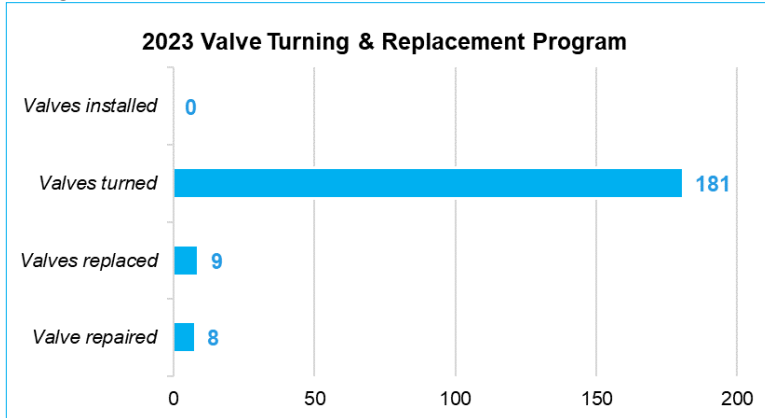
2019-2023 Water Service Line Leaks



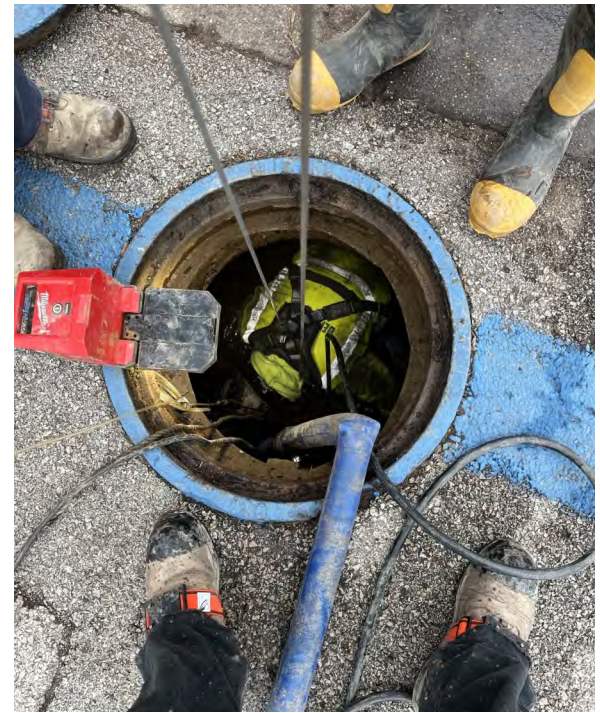
2019-2023 Water Service Line Leaks - In 2023, there were 17 water service line leaks, just below the 5-year average of 17.2 water service line leaks per year.

Valve Turning & Valve Replacement Programs

Over time and due to exposure to the elements, corrosion can develop within the water main valve, resulting in the inhibition of full valve closure. As a part of the Valve Turning Program, each of the 1,050 water main valves are physically turned to determine operability. If valves are inoperable, they are replaced. Valves must be fully functional in the event of emergency water repairs to minimize water loss, damage, and inconvenience to residents.



2023 Valve Turning & Replacement Program - In 2023, 17% (181) of the total 1,050 water main valves were turned. Of that number, 9 were replaced and 8 were repaired. On average over the past five years, 3 valves were installed, 335 valves were turned, 8 valves were replaced, and 8 valves were repaired.



Water Main Valve Replacement at National Avenue & Church Street - An individual Water Division crew member is secured by safety harness cables within the valve vault (confined space) to complete the valve replacement.

Hydrant Flushing & Replacement Programs

The Fire Hydrant Flushing and Replacement Programs are also critical maintenance programs which ensure resident safety when fire suppression is needed. The 1,097 Village-owned fire hydrants are flushed on a systematic basis to determine operability and those which do not meet defined standards are replaced.



Hydrant Replacement on Reba Court - Excavation was completed to replace a 1928 A.P. Smith fire hydrant with a new Waterous Pacer fire hydrant. A backhoe (not pictured) is used to lower the hydrant down to be connected to the water main.



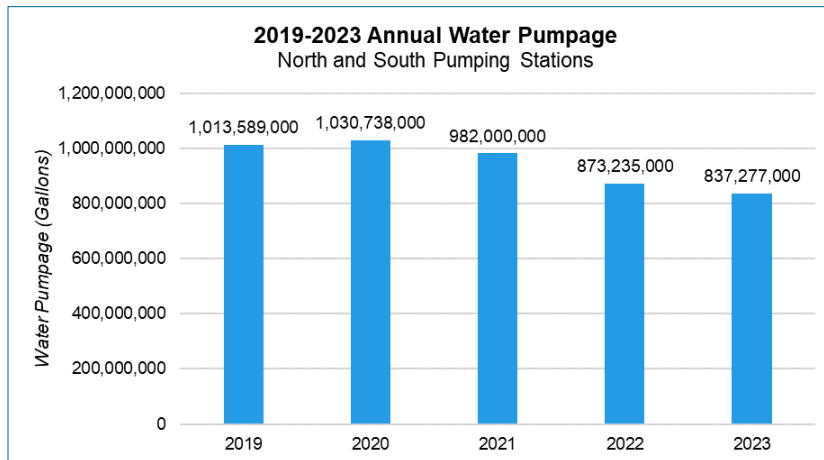
2019-2023 Fire Hydrant Flushing Program - In 2023, 39% (432) of the total 1,097 Village-owned fire hydrants were flushed. Note: Due to COVID-19 restrictions, the Water Division was unable to hire summer seasonal personnel from 2020-2022, resulting in significantly less hydrants flushed (and fewer water main valves turned—see above) during those years.



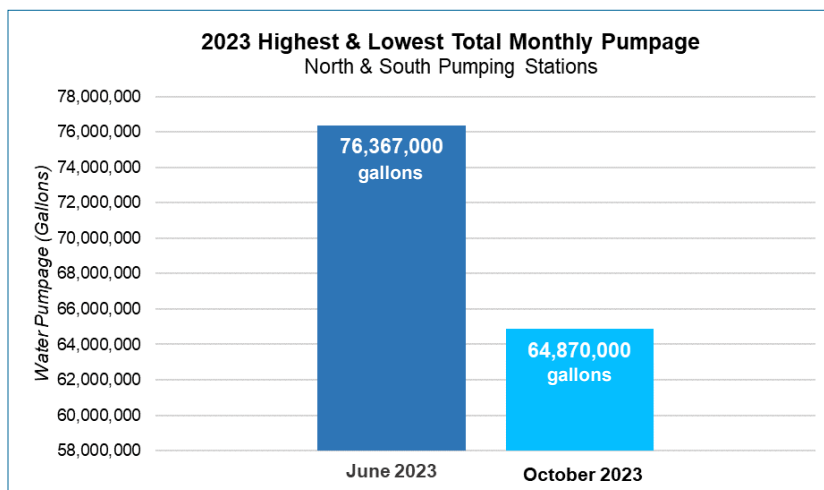
2019-2023 Fire Hydrant Replacement Program - Of the past five years, 2023 yielded the greatest number of fire hydrants repaired and the least number of fire hydrants replaced.



North Pumping Station elevated water tank - The capacity of the North Pumping Station elevated water tank is 750,000 gallons.



2019-2023 Annual Water Pumpage - Over the past five years, there was a 17% decrease in total annual pumpage (in gallons) from the North and South Pumping Stations.



2023 Highest & Lowest Total Monthly Pumpage - Many factors play a role in daily and monthly pumpage, including extremes in temperature, seasons, amount of rainfall, price of water, use of water-efficient appliances, and day of the week (weekday vs. weekend). Increased demand is usually seen in the hot summer months while lower demand is usually seen in the late-fall months, as was demonstrated in 2023 in the graph above.

Water Supply

Through the agreement with the Morton Grove Niles Water Commission (MGNWC) made in 2019, the City of Evanston water treatment plant supplies treated Lake Michigan water to the Village of Morton Grove and its 25,297 residents. Approximately 2.3 million gallons of water per day are pumped through the North and South Pumping Stations into the approximately 91 miles of Village water mains that supply residential homes, commercial businesses, and Village-owned fire hydrants. The combined storage capacity between the two (2) water towers and three (3) underground water reservoirs is 8.5 million gallons.

SCADA System

Pumping Station Operators oversee all aspects of inflow and outflow of the Village water supply via the Supervisory Control and Data Acquisition (SCADA) System. This internal alarm system, as well as an outside company, monitors all high and low set points for approximately 160 different alarms. Examples of alarms include water pressures, chlorine residuals, tower levels, and power failures. The SCADA System is monitored on a continual basis.



North Pumping Station Intake Valve - This North Pumping Station intake valve allows water to be pumped from the underground reservoir into the Village water distribution system.

Water Operator Certification

All Pumping Station Operators are certified by the Illinois Environmental Protection Agency (IEPA) as Class C Water Operators. Each operator earns over 15 hours of continuing education, which is required for re-certification every three years. Pumping Station Operators are available 24 hours a day, 7 days a week to ensure the water supply to Morton Grove residents and businesses is both safe and fully operational.

Water Quality

Pumping Station Operators maintain and validate the safety of the water supply in three (3) key ways. They are responsible for the chlorination of the water supply, which kills bacteria and other microbes rendering the water safe for consumption. In addition, operators complete scheduled sampling of the Village water supply according to Illinois Environmental Protection Agency (IEPA) guidelines. Sampling includes testing the water for the presence of coliform (bacteria), disinfectant/disinfection by-products, unregulated contaminants (UCMR), and lead & copper. Lead and copper sampling of the water supply is also completed by resident request. Lastly, they maintain the database of inspected and documented cross-connection control devices throughout the Village. Cross-connection control devices prevent contaminated water from sprinkler systems from backflowing into the water supply. There are currently 991 total cross connection devices throughout the Village, a number that increases yearly due to installation at new and existing properties.

**2023 Illinois Environmental Protection Agency (IEPA)
Water Sampling Totals**



2023 IEPA Water Sampling Totals - Sampling totals for 2023 include 336 coliform (bacteria) samples, 96 disinfectant/disinfection by-products samples, 36 unregulated contaminants (UCMR) samples, 30 copper & lead samples, and 24 copper & lead samples (resident request). The minimum number of samples required by the IEPA is determined by the water source, type of water treatment employed, population served, and history of water quality in the system.



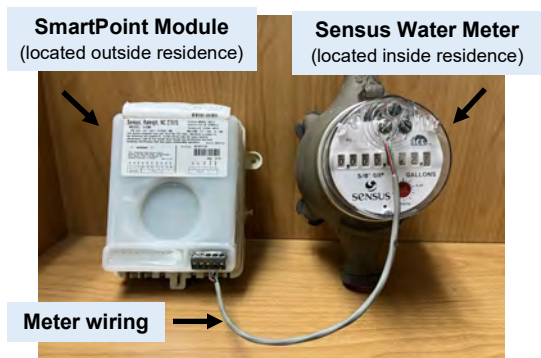
Weekly Coliform (Bacteria) Samples - According to IEPA requirements, seven (7) coliform samples were drawn from twelve (12) set locations throughout the Village every week in 2023. Samples were labeled with a number corresponding to the address where the sample was drawn (as pictured above) and were delivered to the Aurora Water Treatment Plant with results available in two (2) days. Results are pass/fail. All samples in 2023 passed, indicating samples from the Village water supply were coliform (bacteria)-free.



Cross-Connection Control Device - Cross-connection control devices prevent contaminated water from sprinkler systems from backflowing into the water supply. Inspections must be performed annually by a plumber licensed by the State of Illinois and submitted to the Village.

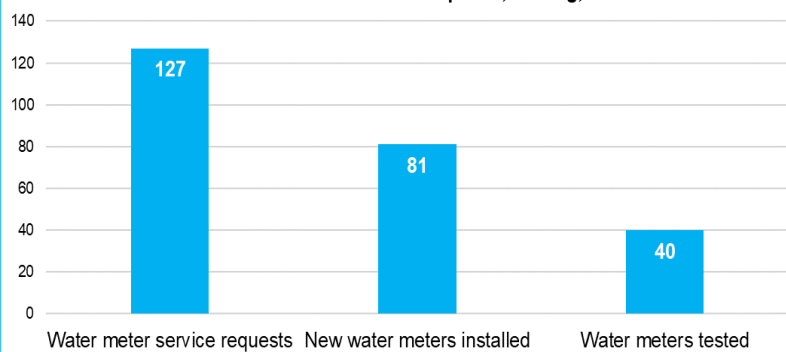
Water Consumption

Pumping Station Operators monitor the Sensus Analytics Smartpoint Metering System and respond to a variety of service requests for residential and commercial Sensus water meters. Examples of service requests include zero-consumption, high-usage, noise issues, and remote meter malfunction. Operators repair and/or replace indoor and outdoor meter wiring, water meters, and SmartPoint modules as required. Operators also complete residential water meter testing to ensure proper meter functioning and accurate water consumption readings.



Sensus Analytics Smartpoint Water Metering System - Sensus water meter readings are communicated from the meter to the Smartpoint module (via meter wiring) and from the Smartpoint module to a monitor within the North Water Tower (via radio frequency). The Finance Department accesses these readings for generation of water bills and water meter service requests.

2023 Sensus Water Meter Service Requests, Testing, & Installation

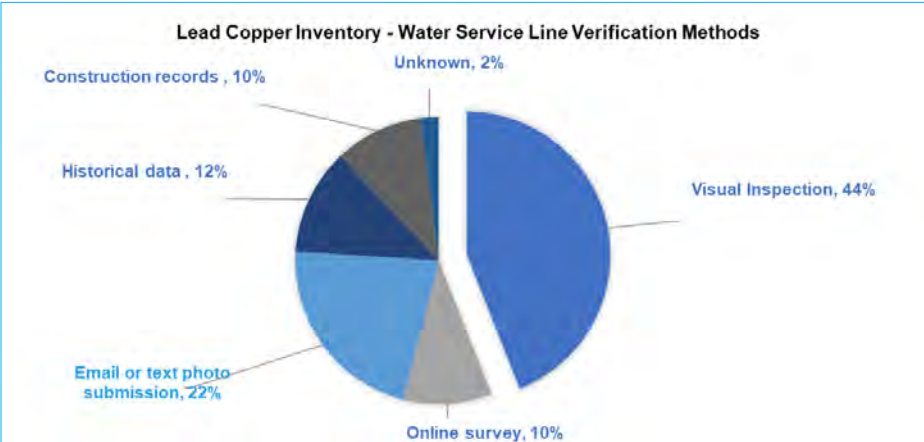


2023 Sensus Water Meter Service Requests, Testing, & Installation - The 5-year average of water meter service requests was 204 meter requests per year, with 2023 yielding significantly less calls (127). The 5-year average of new water meters installed was 46 new meters per year, with 2023 yielding approximately double the amount of new meters installed (81).

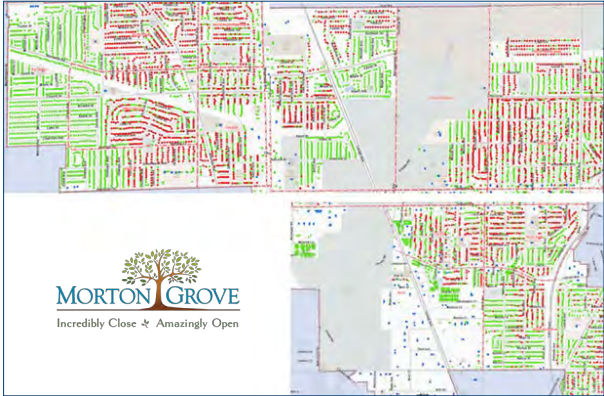
Village-Wide Lead Copper Inventory

Water service lines running from the Village water main to residences and businesses may be composed of lead, copper, or other material. Effective January 1, 2022, the Lead Service Line Replacement and Notification Act (LSLRNA) required the Village of Morton Grove, as an owner and operator of a community water supply, to develop, implement, and maintain a comprehensive water service line material inventory and replacement plan. As a part of this nationwide, federally-mandated plan, Morton Grove Public Works utility inspectors began obtaining the Lead Copper Inventory in 2022. Ultimately, the goal of developing and completing the Lead Copper Inventory is to create a plan for lead water service line replacement in the coming years.

The Lead Copper Inventory identifies the composition of each of the 8,278 water service lines in the Village. By the close of 2023, 8,078 water service lines were verified. Of these, 37% were lead while 63% were non-lead. Less than 200 water service lines remain to be surveyed in 2024.



Water Service Line Verification Methods - The majority (44%) of water service lines in the Lead Copper Inventory were verified by in-person visual inspection, allowing for direct communication with residents about the composition of their water service line and the opportunity to address resident questions and concerns.



Mapping of Village-Wide Lead Copper Inventory - All Lead Copper Inventory data was initially entered into a digital Collector Application for mapping (pictured above). Green areas denote copper water service lines and red areas denote lead water service lines. This information then was populated into the Village's Geographic Information System (GIS), a multifunctional digital mapping system.

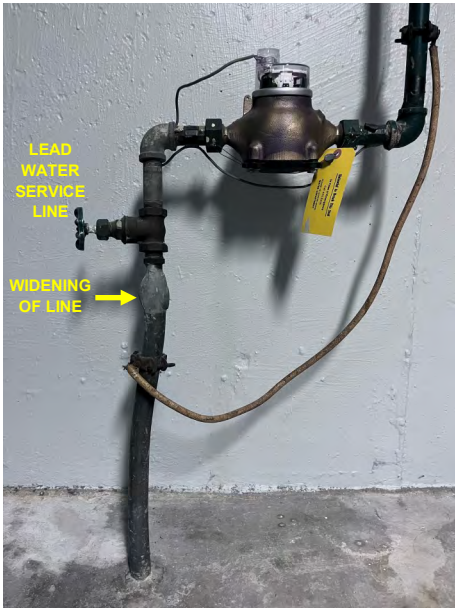
To access the Lead Copper Inventory online go to:
<https://www.mortongroveil.org/public-works/water-quality-information/>

Then, under **Basic Facts About Lead In the Drinking Water**, click on **“service line material inventory summary”**

The Lead Copper Inventory will be completed and submitted by the **April 15, 2024** deadline established by the Illinois Environmental Protection Agency (IEPA). This well-developed materials inventory will allow the Village to prioritize and strategize replacing known lead water service lines within the water distribution system according to continuously developing federal and local requirements.



Copper water service line (above) - Copper water service lines can be identified by the presence of a flared nut (pictured above) and verifying the color (similar in color and shine to a penny OR blue/green in color) and composition (firm and non-magnetic).



Lead water service line (left & above) - Lead water service lines can be identified by the presence of widening of the line (pictured to the left), a lead pack (not pictured here), and by verifying the color (grey) and composition (soft, easy to scrape, and non-magnetic).

Sewer Division

The Village Sewer System

The Sewer Division is responsible for the maintenance and repair of the Village's sanitary, storm, and combined sewer systems. The Village sewer system includes approximately 49 miles of sanitary sewer pipe, 70 miles of storm sewer pipe, and 12 miles of combined sewer pipe. The sewer system is comprised of manholes, catch basins, sewer mainline pipes, sewer joints, and lateral residential service lines. Manholes provide physical access points to the sewer system while catch basins collect debris, preventing it from traveling into storm sewers with rainfall or snow melt (stormwater runoff). Sanitary sewers collect waste water and storm sewers collect stormwater runoff, while combination sewers collect both. The Sewer Division cleans, maintains, rebuilds, and replaces these various structures.



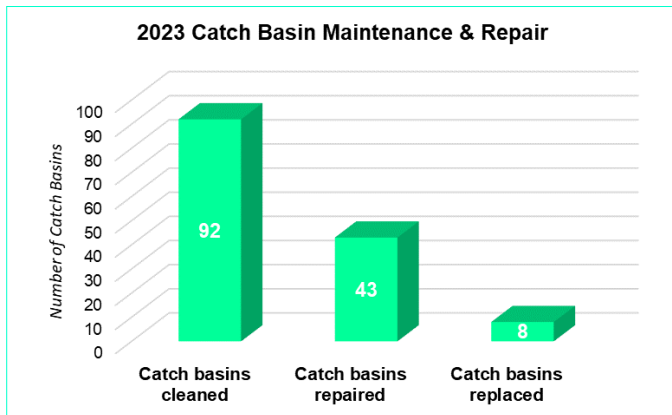
Sanitary Sewer Manhole Rebuilt at Chestnut Street and Lehigh Avenue - Sewer manholes, which allow physical access to the sewer system, require rebuilding due to deterioration over time. The manhole rebuilding process from start to finish is pictured above.



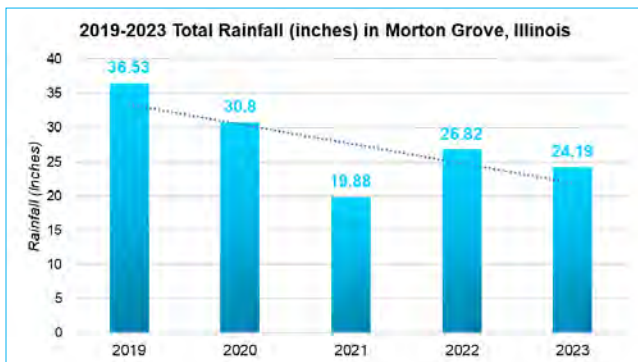
Sewer Division 2019 Peterbilt Vactor 2100i Sewer Truck

Catch Basin Maintenance & Repair

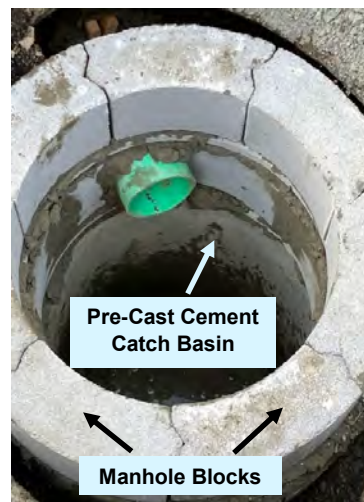
When the Village experiences rainfall or snow melt, stormwater runoff enters the storm or combination sewer system, first passing through catch basins (also called "curb drains"). Catch basins collect debris, preventing it from traveling further into the storm or combination sewers, which can cause blockages. Sewer Division personnel regularly clear debris from catch basins to maintain storm sewer patency and evaluate these structures for repair or replacement. In the past, catch basins were entirely constructed with manhole blocks, while new structures are made of pre-cast cement and built up to street level with manhole blocks. Over time, catch basins experience deterioration. Both partial re-building and complete replacement of catch basins require full excavation, as seen in the photos below.



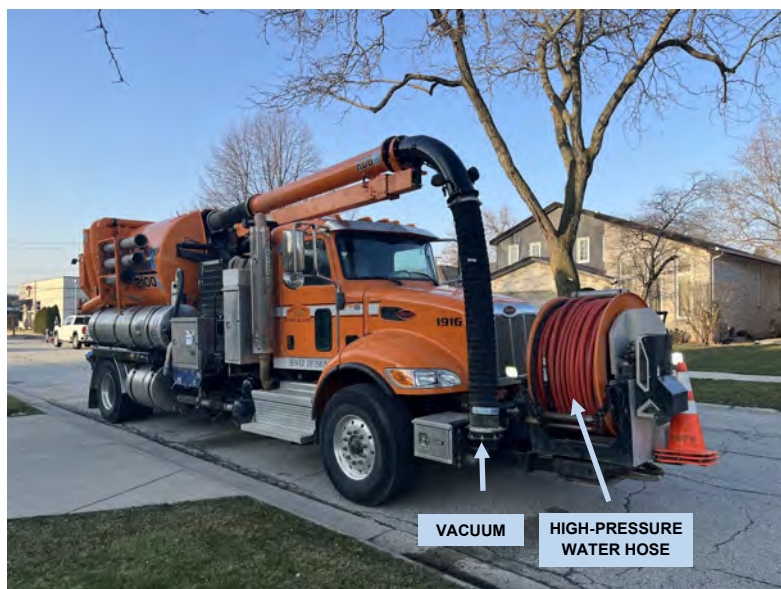
2023 Catch Basin Maintenance & Repair - Over the past five years, the Sewer Division has on average cleaned 96 catch basins per year, repaired 34 catch basins per year, and replaced 4 catch basins per year. Additional Public Works seasonal help during the summer months aids in increased annual numbers of catch basins cleaned.



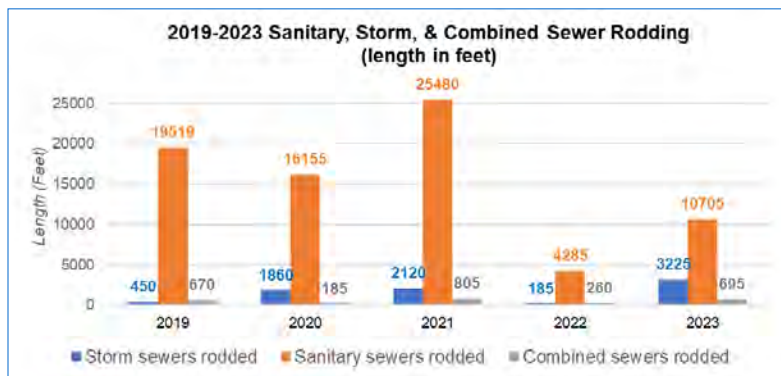
2019-2023 Total Rainfall in Morton Grove, IL - In 2023, the Village experienced 24.19 inches of rainfall, less than the five-year average of 27.64 inches. Over the last five years, the Village has experienced a downward trend in amount of rainfall, and consequently a decrease in the amount of stormwater flowing into storm and combination sewers. A rain gauge at the North Pumping Station collects rainfall values on a daily basis.



Catch Basin Replacement on Parkside Avenue - Excavation of the area was completed to access and deconstruct the deteriorated catch basin. The former catch basin was removed and the new pre-cast cement catch basin was placed. Manhole blocks were then used to build up the catch basin to street level. In 2023, eight (8) catch basins were replaced.



Sewer Division 2019 Peterbilt Vactor 2100i - This truck is utilized by the Sewer Division to complete sewer rodding and catch basin maintenance.



2019-2023 Sanitary, Storm, & Combined Sewer Rodding (length in feet) - Significantly more sewer pipe rodding is completed in the sanitary sewer system due to the smaller diameter of the pipe (as compared to storm sewers) and the increase in blockages (waste, grease, root intrusion). This can be seen both within the trend over the past five years and the 2023 data set (pictured in the charts to the right).

Sewer Televising

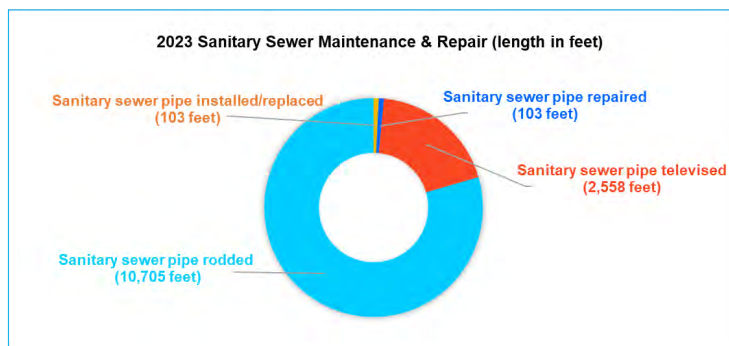
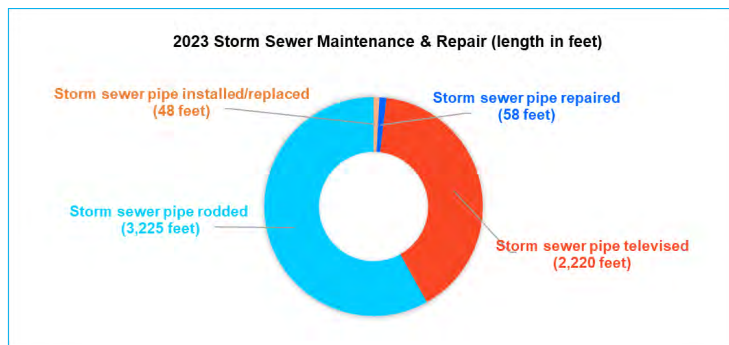
A unique component to routine sewer maintenance is the use of closed circuit television video (CCTV) with the EnviroSight ROVVER X. This small, mobile, waterproof robot, remotely guided by Sewer Division personnel, enters the sewer system and provides real-time digital imaging of the inside of the pipes. This innovative technology allows Sewer Division personnel to determine what the issue is, if the issue is occurring within the Village sewer lines, and how best to resolve it. Televising is only used as required, not for all routine sewer maintenance. Sewer televising is also a key aspect of the Sewer Lining Program (see page 19).



Sewer Division 2021 Dodge RAM Promaster 2500 Sewer Televising Van (side of van pictured)

Sewer Rodding

Routine maintenance in the form of sewer rodding is regularly completed in order to maintain patency in all Village sewer mainline pipes. Blockages within the sewer system can occur due to root intrusion, grease buildup, or the presence of foreign objects. Root intrusion and foreign objects can present in sanitary, storm, and combined sewer pipes, while grease build-up primarily occurs within the sanitary sewer pipes. Sewer rodding is completed using the 2019 Peterbilt Vactor 2100i, which utilizes a high-pressure water hose, a sharp, circular cutting blade, and a vacuum to remove blockages.



2023 Storm and Sanitary Sewer Maintenance & Repair (length in feet) - The majority of storm and sanitary sewer maintenance consists of sewer rodding. Though the 2023 data shows approximately equivalent storm and sanitary sewer televising, the five-year averages are 739 feet (storm) and 3,174 feet (sanitary). More sanitary sewer televising takes place prior to Village-contracted sewer lining (see page 19).



View of Root Intrusion by the Robotic Sewer Televising Camera - The EnviroSight ROVVER X sewer televising camera captured this image of root intrusion within a Village sanitary sewer pipe. The growth of roots into the sewer pipe can cause blockages or mainline breaks. Routine sewer rodding maintenance clears sewer pipes of ingrown roots to maintain patency.

Sewer Pipe Repair & Replacement

As a result of aging infrastructure, root intrusion, and the ground settling over time, joint leakage or lateral breaks in sanitary, storm, and combined sewer pipes can occur, resulting in a backup of sewage or a sinkhole. In the event of joint leakage or lateral breaks, the Sewer Division completes full excavation to repair and/or replace the affected sewer pipe.

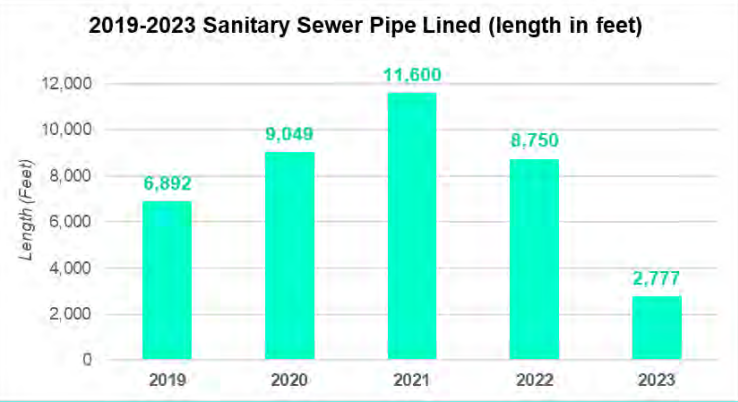
The Sewer Division responds to a variety of service calls to evaluate if an issue exists within the Village sewer line and complete sewer televising, rodding, repair, or replacement as indicated. Sewer Division personnel are available 24 hours a day, 7 days a week for emergency response to ensure the proper functioning of all Village sewer systems.



Sanitary Sewer Joint Repair on Main Street - Joint leakage in the sanitary sewer pipe resulted in the development of a sinkhole in the pavement. Excavation was completed to re-seal the sewer joints with hydraulic cement.



Alley Storm Sewer Pipe Replacement (between Washington Street and Madison Street east of Central Avenue) - Storm sewer pipe replacement was completed in order to improve alley drainage.



2019-2023 Sanitary Sewer Pipe Lined (length in feet) - Only Village sewers which required emergent repairs were lined in 2023. On average, over the past five years, 7,813 feet of Village sanitary sewer pipes were lined per year. The Sewer Lining Program is completed annually, based on Village budgetary constraints.



Storm Sewer Entry for Sewer Televising Prior to Village-Contracted Sewer Lining - When Sewer Division personnel enter the sewer manhole (a confined space), they are required to connect into safety harness cables (as seen above). The Envirosight ROVER X sewer televising camera is placed into the storm sewer pipe for evaluation prior to completion of sewer lining by the Village-contracted company.

Sewer Lining Program

The Sewer Lining Program was developed to provide an efficient and cost-effective option to mitigate the effects of sewer system deterioration. Before the sewer lining process can begin, Sewer Division personnel complete sewer rodding to completely clear the pipe of debris, blockages, and root intrusion. Sewer televising is required to inspect the Village sewer pipes to establish the line is completely clear of debris and free of collapses, to document the number of residential service lines present, and to determine the exact lining footage to properly estimate the cost. The Village-contracted lining company then proceeds to complete the insertion of cured in place pipe (CIPP). This durable lining creates a new, structurally-sound pipe within the existing sewer pipeline. This is a cost-effective measure that does not require the same extent of excavation efforts indicated for full pipe replacement.

Two areas more prone to flooding within the Village are Basin 7 and Basin 10 (see page 20). The lining of selected sanitary sewers within Basin 7 was completed in September 2022. Sewer lining of selected sanitary sewers in Basin 10 is anticipated to be completed in the coming years, as Village funding permits.

Infiltration & Inflow Inspections

The terms infiltration and inflow broadly refer to unwanted rainfall or snow melt (“stormwater runoff”) entering the sanitary sewer system. Infiltration refers to groundwater seeping into deteriorating sanitary sewer pipes. Inflow refers to stormwater runoff that is directed into the sanitary sewer system via residential connected downspouts, sump pumps, area drains, damaged grease basin covers, or damaged clean-out caps. Infiltration and inflow can overwhelm the Village sewer system, which can result in flooding, including basement backups and overflow of sewage from manholes. On a larger scale, infiltration and inflow also can overwhelm the Metropolitan Water Reclamation District (MWRD) of Greater Chicago’s interceptors, which results in excessive amounts of wastewater being treated unnecessarily.



DAMAGED CLEAN-OUT CAP



REPAIRED CLEAN-OUT CAP

Damaged and Repaired Residential Clean-Out Cap - Residential clean-out caps, which secure access points for privately-contracted plumbers to complete residential sanitary sewer rodding, ensure unwanted inflow of stormwater does not enter the Village sanitary sewer system.

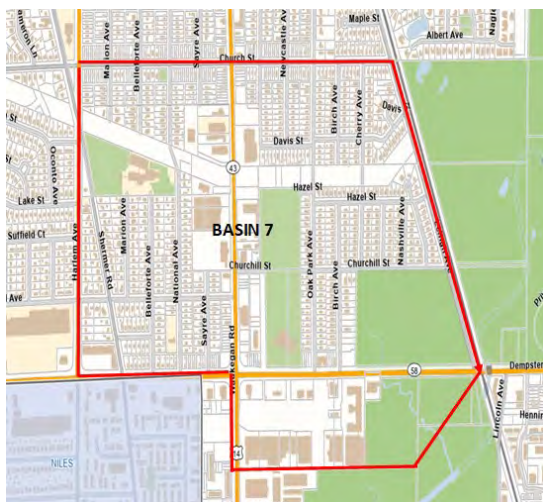


Damaged Residential Grease Basin Cover - The cracked cement in the residential grease basin cover above provides an opening for unwanted inflow of stormwater into the Village sanitary sewer system. Residential grease basins were installed in years past as a means of grease disposal that would prevent grease from flowing into the sanitary sewer system.

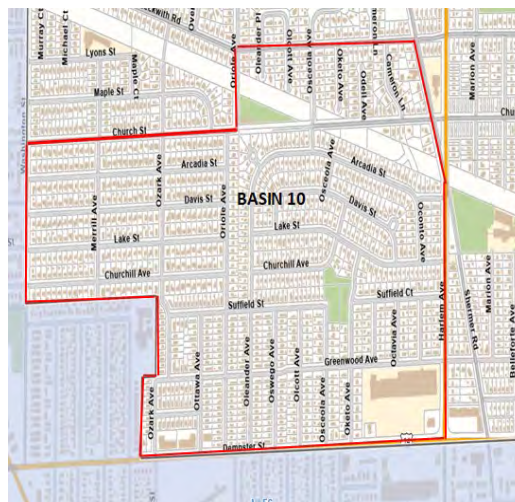
The Metropolitan Water Reclamation District (MWRD) of Greater Chicago requires all entities that own separate sanitary sewer systems within their district to comply with the requirements set forth by the Infiltration and Inflow Control Program (IICP). Since the year 2014, the Village has been completing mandatory inspections to evaluate if sources of infiltration and inflow are present and ensure they are properly remedied. Currently, inspections are still underway. To aid in increasing the capacity of the sanitary sewer system, the Village has established a systematic inspection, rehabilitation, and replacement program for public sewers and continuously makes efforts to reduce infiltration and inflow that originate from public and private property. Residents are responsible for repairing sources of infiltration and inflow located on their property.

Basin 7 & Basin 10

Two areas more prone to flooding within the Village are Basin 7 and Basin 10. To aid in mitigating flood risk, both of these areas have been the focus of both the Infiltration and Inflow Control Program as well as The Sewer Lining Program (see page 19). All residential MWRD Infiltration and Inflow Control Program requirements have been met for Basin 7. Infiltration and inflow inspections for Basin 10 were approximately 65% complete at the close of 2023.



Basin 7 Boundaries - Basin 7 boundaries are Church Street (north) / Dempster Street (south) / Harlem Avenue (east) / Lehigh Avenue (west).



Basin 10 Boundaries - Basin 10 boundaries are Church Street (north) / Dempster Street (south) / Washington (east) / Harlem Avenue (west).

Streets Division

Street Maintenance Operations

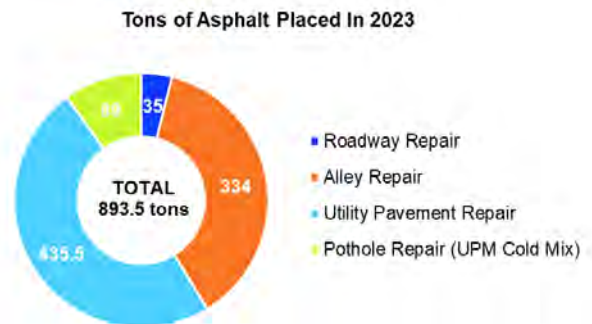
The Streets Division maintains approximately 82 miles of Village, State, and County roads, including approximately 11 miles of paved alleys. Maintenance operations include pavement repairs, pavement markings, street sign maintenance & repair, landscaping, street sweeping, leaf collection, trash pick-up, snow removal, and ice control.

Street & Alley Pavement Repairs

Winter weather conditions and snow and ice control operations can be detrimental to the condition of Village streets and alleys. The Streets Division actively monitors the Village streets to locate and patch potholes. During the winter months, potholes receive a temporary patch of Unique Paving Material (UPM) cold mix asphalt. The annual street survey is conducted in the spring to determine which areas have the highest priority to receive repair with hot mix asphalt based on Village budgetary constraints. The Street Patching Program is contracted and completed annually during the late summer months (see page 8). Additionally, the Streets Division completes roadway repairs, alley pavement repairs, utility pavement repairs, alley grading with stone, street and alley saw cuts, trip hazard repairs, and curb and pavement markings.



Streets Division 2014 Ford F-450 Utility Box Truck



Tons of Asphalt Placed in 2023 - Of the 893.5 tons of UPM asphalt placed in 2023, 49% (435.5 tons) was used for utility pavement repairs. Utility pavement repairs are completed using hot mix asphalt following various types of excavation work done by the Public Works Department, including water main repairs, stump removal, and concrete replacement.



UPM Cold Mix Asphalt Utility Pavement Repair at Church Street and Osceola Avenue - Streets Division personnel placed a temporary cold mix asphalt patch until permanent pavement repair could be completed in Spring 2024.



Hot Mix Asphalt Utility Pavement Repair at Dempster Street and Osceola Avenue - The Bobcat breaker was used to remove the temporary cold mix asphalt patch to complete permanent pavement repair with hot mix asphalt.



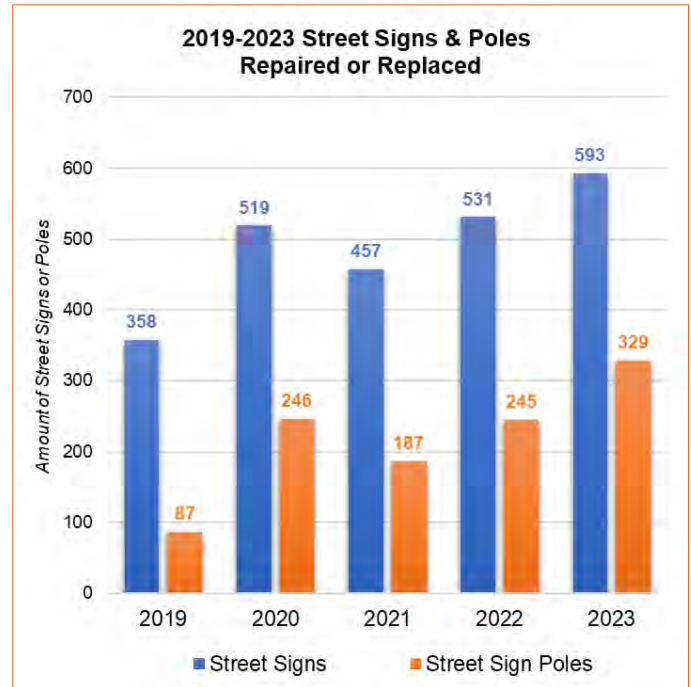
Street Sign and Pole Installation at Harlem Avenue and Emerson - Installation of new signage to align with pavement markings was completed by the Streets Division after the roadway was re-paved by the Illinois Department of Transportation (IDOT).



Stop Sign Installation at Austin Avenue and Beckwith Road - Streets Division personnel completed stop sign installation to replace the previous damaged pole and sign. A temporary stop sign was placed (as seen in the foreground) to ensure traffic safety during sign installation.

Street & Regulatory Signs

The Streets Division is responsible for the fabrication, installation, maintenance, and repair of all Village street and regulatory signs, as well as Village 18x24 informational signs, zoning signs for Community Development, and banners. The Streets Division assesses the condition of signs and poles and completes repairs, only fully replacing signs and poles when necessary. In 2023, the Streets Division repaired and/or replaced 593 signs and 329 poles. In addition, they also installed 77 18x24 informational signs, 19 banners, and 59 zoning signs for Community Development.



2019-2023 Street Signs & Poles Repaired or Replaced - Over the past five years, there has been a steady increase in sign & pole repair or replacement. One contributing factor has been the establishment of designated school routes within the Village, which has required additional signage placement.



Village Informational Sign Installation at Dempster Street and School Street

Street Sweeping, Leaf Collection, and Snow & Ice Removal Programs

The Streets Division oversees the Village's Street Sweeping, Leaf Collection, and Snow and Ice Removal Programs. Street sweeping both aids in maintaining clean Village rights-of-way and also prevents debris from entering the Village's storm and combined sewer system, resulting in better stormwater drainage. Street sweeping begins in the late spring and increases in frequency during the fall leaf season. The Fall Leaf Collection Program begins in mid-October and runs through late November.

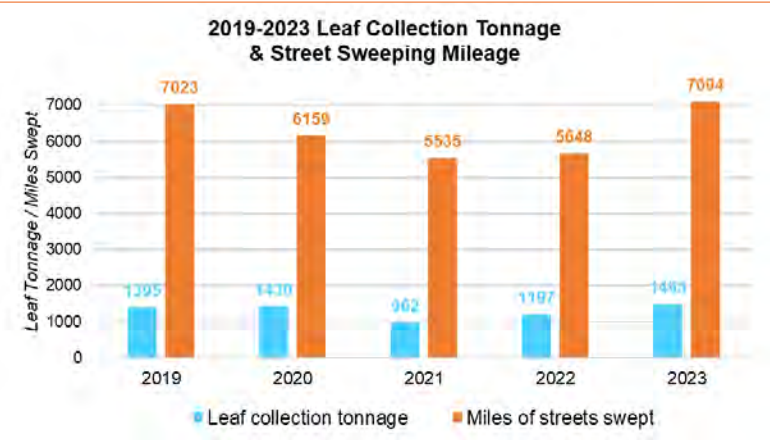
Salting and de-icing operations commence as soon as precipitation begins to fall on the streets. Snow plowing begins when approximately one (1) inch of snow accumulates on the streets and continues until all streets are cleared. The Snow and Ice Removal Program requires mobilization of all Public Works personnel and is led by the Streets Division. In 2023, the Village experienced 20 snow and ice events. Streets Division personnel pride themselves with providing Morton Grove residents the most well-maintained streets in the Northwest suburbs.



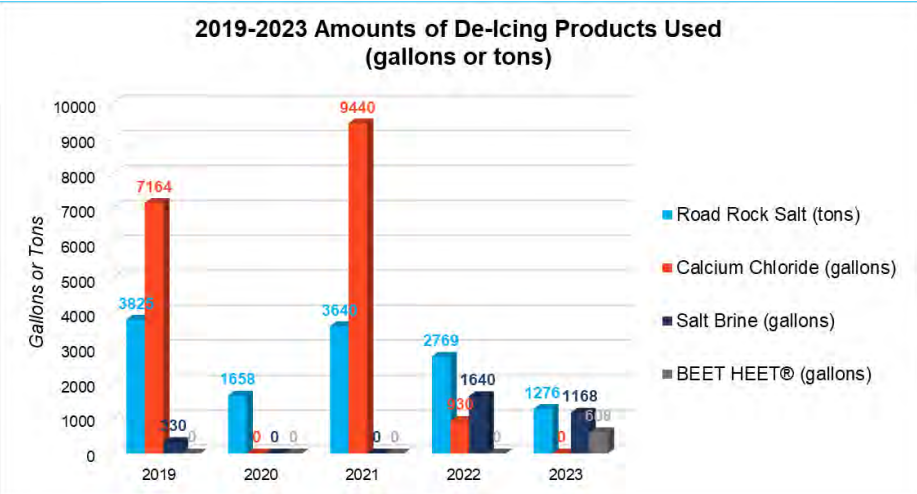
Snow Plowing Operations on Wilson Avenue - Snow was being cleared on Wilson Avenue as the Morton Grove Fire Department responded to a call for service, emphasizing the importance of keeping the Village streets clear and accessible during snow events.



Fall Leaf Collection and Hauling - Leaf piles were collected by the 2017 John Deere Front-End Loader and emptied into the 2012 Mack Semi Dump Truck for delivery to the Public Works Facility yard. A leaf hauler subcontracted by Groot Waste Services picks up collected leaves 3-4 times throughout leaf season.



2019-2023 Leaf Collection Tonnage & Street Sweeping Mileage - In 2023, both programs ran through mid-December as a result of warmer weather conditions, contributing to the highest volumes of both street sweeping mileage and leaf collection tonnage in the past five years.



2019-2023 Amounts of De-Icing Products Used (Gallons or Tons) - Calcium chloride is a salt additive that improves the operability of the salt in temperatures below 20 degrees Fahrenheit. Salt brine and BEET HEET® are used to prevent snow and ice from bonding to street pavement.



2017 Freightliner Snow Plow

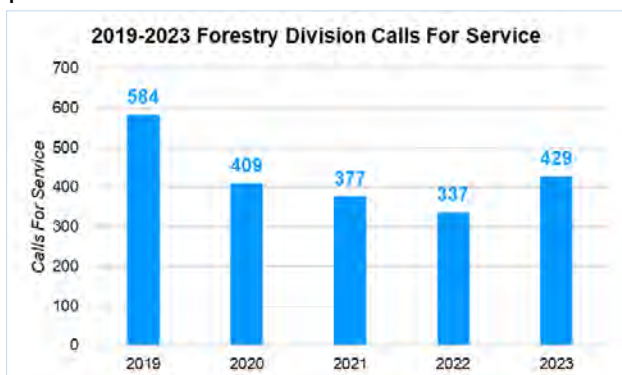
Forestry Division

Parkway Tree Maintenance Operations

The Forestry Division maintains approximately 11,000 trees on the public right-of-way throughout the Village. Maintenance operations include tree trimming, tree removal, stump grinding, woodchip delivery, clearing of alley overgrowth, branch pick-up, and storm clean-up. Additional duties include parkway restoration, trash collection, street light maintenance, installation of flags, banners, and decorations, and response to resident service requests. In 2023, the Forestry Division responded to 429 resident calls for service.



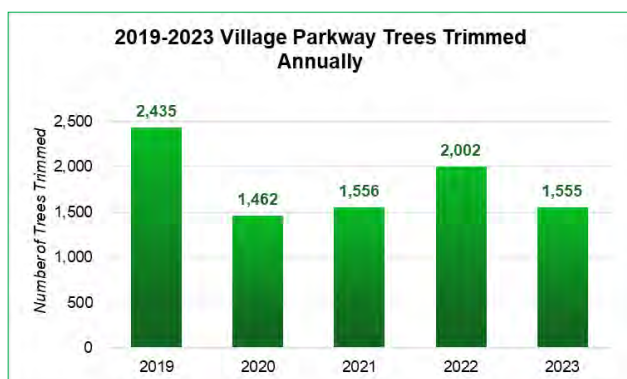
Forestry Division 2019 Ford F-250 Utility Truck



2019-2023 Forestry Division Calls For Service - In 2018, the Forestry Division made the adjustment from a 10-year pruning cycle to a 7-year pruning cycle, resulting in more frequent tree trimming maintenance (removal of dead branches). More frequent tree trimming upkeep resulted in decreased tree trimming request calls from residents. The Forestry Division also experienced a decrease in service calls during the years 2020-2022 as a result of the COVID-19 pandemic.



Aerial View of the Village of Morton Grove - The Village's dense tree canopy was captured here, looking east from the Forest Preserve District of Cook County (Linne Woods) over Harrier Park towards the City of Chicago.



2019-2023 Village Parkway Trees Trimmed Annually - The amount of trees trimmed annually is dependent on many factors, including size of trimming areas and trimming frequency. During the years 2020-2021, only trimming that was considered "essential" was completed as a result of the COVID-19 pandemic. In spite of this challenge, the Forestry Division still remains on target in completing the trimming of all Village trees within the established 7-year pruning cycle.

Tree Trimming

Parkway trees are trimmed on a 7-year pruning cycle. The Forestry Division conducts the annual tree trimming operations throughout the year in pre-determined sections of the Village. Trimming crews adhere to the American National Standards Institute (ANSI) guidelines for tree care to address three essential aspects: tree health, resident safety, and protecting property from damage. A portion of tree trimming is bid and contracted as an adjunct to the Forestry Division. Over the course of 2023, a total of 1,555 parkway trees were trimmed.



Tree Trimming Operations on Theobald Avenue - A Siberian Elm tree was trimmed to remove dead wood and prevent further branches from falling.

Tree City USA® Designation

The Village has received the designation of Tree City USA® for twenty-two (22) consecutive years and anticipates receiving the 2023 award. This designation demonstrates the Forestry Division's commitment to maintaining a flourishing tree canopy in the Village. On an annual basis, the 50/50 Tree Planting Program contributes to the planting of more parkway trees in the Village. Residents can select the type of tree species they would like to be planted in their adjacent parkway. This program increases the many benefits that trees afford the community at a 50% reduced cost to residents. In 2023, 142 trees were planted and 158 dead, dying, or dangerous trees were removed. Trees that are removed are ground using a woodchipper. Upon resident request, woodchips can be delivered for personal use, further contributing to the Forestry Division's sustainability efforts. In 2023, a total of 182.5 yards of woodchips were delivered to 45 residents.



50/50 Tree Planting Program Tree Delivery to the Public Works Facility - Lilac, elm, maple, crabapple, planetree, and Kentucky coffee trees are some examples of the 6-8 tree species that can be selected for planting in the 50/50 Tree Planting Program. Forestry Division personnel plant the trees at participating residences in the month of May.



2023 Arbor Day Tree Planting Ceremony at Parkview Elementary School - Each year, Arbor Day is hosted at a different Village Elementary School. An autumn blaze maple tree was planted by the Forestry Division at Park View Elementary School in 2023.



2001 Tree City USA® Award Displayed in the Public Works Facility

2019-2023 Village Parkway Trees Planted & Removed Annually



2019-2023 Village Parkway Trees Planted & Removed Annually - During the years 2019-2021, the Forestry Division received a donation for the purchase of an additional 100 trees per year, contributing to the increased number of trees planted during those years. Parkway tree removal meets or exceeds the number of trees planted annually over the past five years. However, factors such as tree spacing must be taken into consideration. Inappropriate numbers of trees planted without adequate spacing can have detrimental effects on tree lifespan, root growth, and parkway and lawn grass growth.

Arbor Day

Arbor Day is an annual event organized by the Forestry Division. The first Arbor Day was held on April 10, 1872 by J. Sterling Morton of Nebraska City, NE, resulting in more than one million trees planted on a single day. Each year, during the last week in April, the Certified Village Arborist and Forestry Division personnel continue to honor this tree planting tradition by hosting a tree planting ceremony at a local elementary school. To commemorate this historic day, the Village Arborist discusses the importance of trees in our community, a student reads the Arbor Day Proclamation aloud, and Forestry Division personnel plant a parkway tree as students observe. Each student receives a sapling to plant at home, information about the planting and care of their sapling, and a copy of the Arbor Day proclamation. The Forestry Division also engages with other Village elementary schools throughout that week, delivering additional Arbor Day talks to approximately 300 students in total.

Morton Grove Tree Walk

The Annual Morton Grove Tree Walk is led by the Village Arborist and Forestry Division personnel along a one-mile accessible route through the community. This educational event allows attendees firsthand insights into the benefits trees offer and rationale for tree selection, planting, care, and removal.



2023 Morton Grove Tree Walk - The Tree Walk route began at Village Hall. In the above photo, attendees are headed southbound on Austin Avenue.

Village Maintenance & Seasonal Decoration

The Forestry Division prepares, installs, removes, and stores seasonal flags, banners, artificial flowers, and decorations. Village street lights are monitored for outages and replaced as needed. Trash collection is regularly completed throughout the Village and in the Dempster Street and Waukegan Road business districts. The Forestry Division continually demonstrates dedication in keeping the Village of Morton Grove well-maintained for residents and visitors alike.



Village Light Pole Photocell Repair at Lincoln Avenue and McVicker Avenue - The photocell within the street light detects light and darkness, causing the light to remain off during the day and turn on at night.



Summer Adopt-A-Planter Program



Winter Adopt-A-Planter Program

Adopt-A-Planter Program

The Forestry Division provides operational support to the Adopt-A-Planter Program in partnership with the Community Relations Committee (CRC). Individuals, families, organizations, businesses, and other groups sign up to plant and maintain one (1) of the 142 existing planters located on Dempster Street, Waukegan Road, at the Civic Center, or at the Metra Station. In 2023, all 142 planters were “adopted” and contained summer blooms. During the holiday season, pine trees are planted and decorated by residents within these same planters. In 2023, 100 planters were “adopted” and contained festive, decorated pine trees.



Seasonal Decoration Installation Throughout the Village - Forestry Division personnel utilize the bucket truck in order to complete installation of seasonal decorations, banners, and flags as well as tree trimming and street light photocell repair.

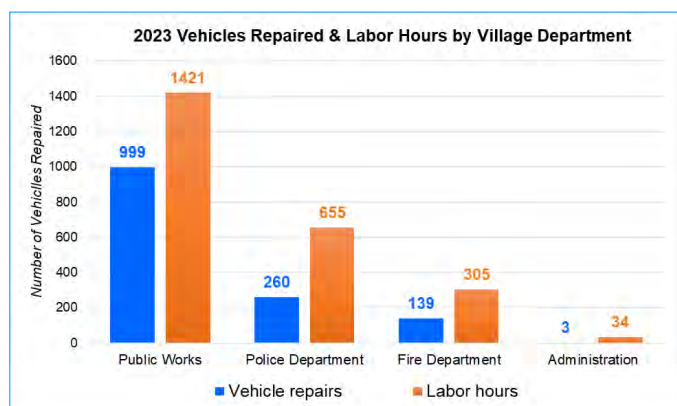
Vehicle Maintenance Division

Vehicle Maintenance & Repair

The Vehicle Maintenance Division is responsible for the scheduling and performance of routine maintenance and repair to the entire municipal fleet. The fleet consists of 143 vehicles including those from the Department of Public Works, the Fire Department, the Police Department, and Village Administration. In addition, the Vehicle Maintenance Division maintains the underground fuel storage tank (UST), fuel dispensing equipment, and record of monthly fuel usage by all Village Departments in compliance with state-mandated fuel and tank regulations. Personnel manage vehicle tollway accounts and ensure vehicle emissions tests and semi-annual regulatory safety inspections are completed. The Vehicle Maintenance Division plays a key role in the delivery of Village services throughout all departments, ensuring all Village vehicles and equipment are available, reliable, and safe to operate.



Vehicle Maintenance Division 1993 Peterbilt Tow Truck



2023 Vehicles Repaired & Labor Hours by Village Department - The amount of vehicle repairs and labor hours devoted to each Village Department are directly correlated with the amount of vehicles and equipment that each department possesses. In 2023, the Public Works Department yielded the greatest number of vehicle repairs (999 vehicles) and labor hours (1421 hours) while Village Administration yielded the least.



2009 International Dump Truck Welding Repair - Emergency light brackets were re-welded onto the 2009 International dump truck body.

Public Works Department Vehicles & Equipment

The Public Works Department currently has 93 total vehicles. This total consists of unique vehicles and pieces of equipment, including front-end loaders, snow plows, salters, forklifts, pavement rollers, pavers, bobcats, backhoes, excavators, woodchippers, vactors, and a stump grinder. The Police Department currently has 31 total vehicles and the Fire Department has 15 total vehicles. Village Hall Administration has 4 total vehicles. Preventative maintenance on vehicles and equipment is performed on a recurring basis, including oil changes, tire rotation, filter replacement, and tune-ups. The Division mechanics also perform more complex work as indicated, including diesel engine repairs, fluid leak repairs, electrical repairs, tire repair/replacement, brake and suspension repair/installation, parts installation, miscellaneous repairs, and non-vehicle repairs. The Vehicle Maintenance Division consistently demonstrates a high standard of competence and ability in the variety of mechanical work they perform.



Vehicle Maintenance Division Service Call During Snow Event - During this 2023 snow event, the plow frame on the 2009 International broke, causing the plow blade to become disengaged from the truck. Mechanics from the Vehicle Maintenance Division responded with the 1993 Peterbilt Tow Truck to remove the out-of-service snow plow and complete necessary repairs.

2023 New Vehicle Purchases

The Vehicle Maintenance Division directly oversees all vehicle purchases for the Public Works Department and Village Administration. In 2023, a total of six (6) new vehicles were purchased for the Public Works Department, which include a 2024 International HV607 Dump Truck / Snow Plow, a 2023 Morbark Model 2131 Wood Chipper, a 2023 Liberty Trailer, a 2022 Vermeer Stump Grinder, a 2023 Ford Explorer, and a 2022 Ford F-250 Pick-Up Truck / Snow Plow. Both the 2023 Morbark Model 2131 Woodchipper and the 2024 International HV607 were purchased through the State of Illinois and Northwest Municipal Conference (NWMC) procurement bid process. In 2023, the Fire Department purchased two (2) new vehicles, which include a 2022 E-One Cyclone Fire Engine and a 2023 Ford Explorer. In 2023, the Police Department purchased four (4) new 2023 Ford Explorers. Selected vehicles for trade-in or auction are also prepared by the Vehicle Maintenance Division mechanics.



2023 Liberty Trailer



2024 International HV607 Dump Truck / Snow Plow



2022 Ford F-250 Pick-Up Truck / Snow Plow



2023 Ford Explorer



2023 Morbark Model 2131 Wood Chipper



2022 Vermeer Stump Grinder

Facilities Maintenance Division

Municipal Building & Property Maintenance

The Facilities Maintenance Division monitors and maintains the condition of all Village municipal buildings and properties on a continual basis. Facility inspections are regularly completed at Village Hall, the Public Works Facility, the Civic Center, and 8300 Lehigh Avenue to ensure efficient operation of infrastructure and equipment. Preventive maintenance contracts are established and maintained in order to best preserve Village-owned properties. The Division oversees capital improvement projects from start to completion and creates comprehensive plans for future capital expenditures. Facilities Maintenance personnel are also responsible for event planning, contract procurement, and event set-up coordination for the Village-sponsored Morton Grove Days and National Night Out.



Facilities Maintenance Division 2017 Ford F-250 Utility Truck



Fire Station 4 Carpet Installation



North Pumping Station Roof Replacement

2023 Capital Improvement Projects

Fire Station 5

Entry Locks & Security Camera Installation – A door access control system on two (2) main entry doors was installed, which allows the doors to close and lock automatically. Two (2) 5-megapixel dome exterior security cameras were also installed, which have 30-day internal storage and a 5-year warranty.

Fire Station 4

Carpet Installation – Existing broadloom carpeting was removed. New carpet tile was installed in the administrative section and new broadloom carpeting was installed in the basement training room.

Shingle Staining – Repaired and secured loose shingles and applied two (2) coats of acrylic semi-transparent stain to approximately 3,700 square feet of cedar shingles.

Light-Emitting Diode (LED) Lighting Conversion Project – A 250-light fixture was converted to energy-efficient LED lighting. Annual projected cost savings was \$4,306.00 and 43,056 kWh of electricity per year.

North Pumping Station

Roof replacement – Complete tear-off of gravel surface built-up roof and membrane roof was completed. The chimney was re-tuckpointed and wall elevations were spot-tuckpointed. New insulation, fleece back membrane polymer, flashing, scuppers, and coping caps were installed.

Public Works Facility

Water Division Garage Heating Unit – The ceiling-mounted heating unit in the Water Division Garage was replaced.

Water Division Offices Roof-Top Unit (RTU) – The 3-ton roof-top unit (RTU), which provides heating and cooling to the Water Division offices, was replaced.

Vehicle Lift Replacement Project – This project was bid in 2023. Due to lead times, the new lift is scheduled to be installed in March 2024.

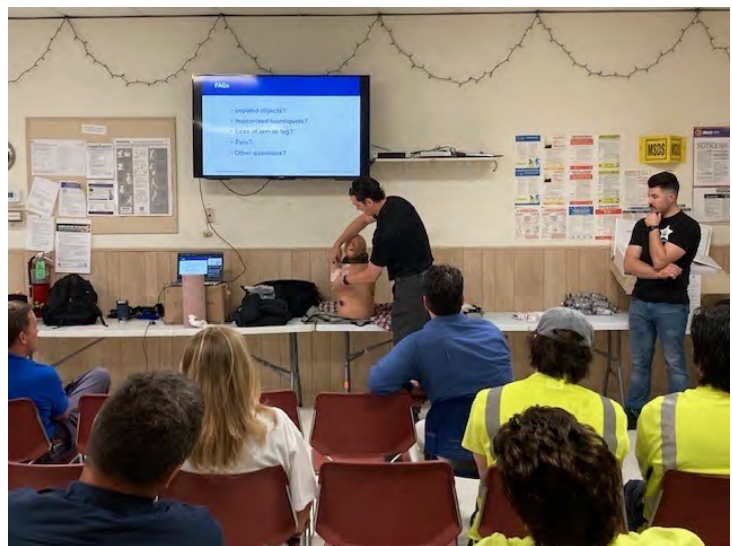


2023 Forklift Operation Training - An Intergovernmental Risk Management Agency (IRMA)-sponsored vendor completed classroom instruction and skill validation. All Public Works personnel completed a multi-step course to demonstrate proficiency in forklift operation.

On-Site Training

Over the course of 2023, fifteen different on-site training sessions were conducted. The most notable training sessions included Confined Space Rescue, STOP THE BLEED®, Aerial Self-Rescue, Forklift Operation, Trench and Excavation Safety, Respiratory Protection, Electrical Safety, and Bloodborne Pathogens.

Cross-training between Village Departments offered an excellent opportunity for interdepartmental skill development and enhancement. STOP THE BLEED® Training was conducted by Morton Grove Police Department personnel and Confined Space Rescue Training was conducted in partnership with the Morton Grove Fire Department. Tours of the North and South Pumping Stations were also conducted with Fire Department personnel to maintain operational readiness in the event of an emergency.



2023 STOP THE BLEED® Training conducted by the Morton Grove Police Department - Instruction was provided on how to recognize and control life-threatening bleeding. Three techniques—pressure application, wound packing and pressure, and tourniquet application—were return-demonstrated by all Public Works personnel.

The Public Works Safety Program

The Public Works Safety Program, overseen by the Facilities Division, continually demonstrates a commitment towards maintaining a safe working environment and ensuring employee wellness. Training opportunities for staff development are provided in the form of safety lectures, review of current Standard Operating Procedures (SOPs) and Job Safety Analyses (JSAs), and on-site training sessions. SOPs are detailed, step-by-step guidelines that denote how to perform a job-related task and JSAs further outline how to perform that job-related task safely. Public Works personnel are regularly evaluated in the performance of their work in the field according to these guidelines. The Public Works Safety Program is governed by recommendations from the Intergovernmental Risk Management Agency (IRMA), the Village's insurance carrier, and federal regulations established by the Occupational Safety and Health Administration (OSHA).



2023 Confined Space Rescue Training with the Morton Grove Fire Department - Two harness cables are suspended from the top of the metal tripod assembled above the confined space (in the center of the above photo). These cables connect to the harness worn by the crew member working within the confined space, allowing for two modes of rescue/retrieval in the event of an emergency. This is a mandatory aspect of all confined space entries as determined by Occupational Health and Safety Administration (OSHA) standards.

The Public Works Safety Committee

The Public Works Safety Committee meets on a monthly basis to ensure safety and training goals are being met for each Division, to review any safety-related events that have occurred, and respond with practice changes and follow-up training to educate personnel. Reports are filed and reviewed for any work-related injuries as well as "near-misses". The Public Works Safety Committee reports to the Village Executive Safety Committee to ensure follow-up in regards to any safety events which occur. The Safety Committee also submits reports of public property damage to IRMA to assist with recovering funding for subsequent repairs.

Special Events

Solid Waste Agency of Northern Cook County (SWANCC) Electronics Recycling & Document Destruction Event



On May 18, 2023, Public Works personnel welcomed residents from the ten (10) eligible participating SWANCC communities to this drive-up event at the Public Works Facility. A total of 565 cars dropped off a variety of electronics and documents to be disposed of, successfully diverting these items from landfills.

Morton Grove Days



On July 1-4, 2023, all Public Works personnel assisted with set-up for Morton Grove Days, an event which unites the community in commemoration of the birth of our nation each year. Festivities include a carnival, live music, food vendors, beer garden, 4th of July parade, fireworks, and family entertainment. The Facilities Maintenance Division specifically oversaw event planning, contract securement, and event set-up coordination.

Community Clean-Up



On May 20, 2023, Public Works personnel supported the Community Clean-Up by marking selected areas to be cleaned with signage, assisting with event set-up, distributing event materials, and grilling lunch for all participants at the Morton Grove Civic Center.

National Night Out



On August 1, 2024, Public Works personnel set-up the Public Works John Deere Front-End Loader Tractor and the 2019 Avant 528XL for the public to enjoy viewing and taking photos with at the Morton Grove Civic Center for National Night Out. In addition to the Public Works vehicles, police squad cars and fire department apparatus were also set-up for the public. The Facilities Maintenance Division specifically oversaw event planning, contract securement, and event set-up coordination. The Department of Public Works also staffed an informational table to discuss its services, answer questions, and receive feedback from residents. This annual event, hosted by the Morton Grove Police Department, aims to build stronger bonds between law enforcement officers and Morton Grove residents and families.

Morton Grove Sustainability Expo



On September 9, 2023, Public Works personnel assisted in set-up for the Morton Grove Sustainability Expo, hosted by the Environmental and Natural Resources Commission (ENRC) at the Morton Grove Civic Center. The event focuses on all-things sustainable, including green & zero-waste product vendors, renewable energy sources, composting, recycling, native plantings, organic lawn care, and more. The Department of Public Works also staffed an informational table to discuss its services, answer questions, and receive feedback from residents. The Certified Village Arborist distributed tree saplings to event attendees.

The Environmental and Natural Resources Commission (ENRC) Pumpkin Smash



On November 4, 2023, Public Works personnel hosted the annual Environment and Natural Resource Commission (ENRC)-sponsored Pumpkin Smash at Harrer Park. Residents successfully delivered and smashed 544 pumpkins, weighing in at 2.68 tons. The pumpkin remnants were delivered to Thelen Materials disposal facility in Antioch, IL. Many families remained at the park after dropping off their pumpkins to enjoy good conversation, refreshments, and plenty of grilled hot dogs served by Public Works personnel.

Annual Morton Grove Chamber of Commerce Autumn Holiday Artisan Faire



On October 28, 2023, Public Works personnel attended the Morton Grove Chamber of Commerce Autumn Holiday Artisan Faire at the Morton Grove Park District Prairie View Center. Public Works joined other Village and Park District personnel to meet and greet guests at the entrance to the event. Public Works personnel also staffed an informational table to discuss its services, answer questions, and receive feedback from residents.

Santa's Visit to Morton Grove



On December 2, 2023, Public Works personnel supported Santa Claus's visit to Morton Grove. Public Works personnel supported Santa's movement throughout the Village in two (2) Ford F-450 vehicles.

Department of Public Works Christmas Luncheon



On December 20, 2023, the Public Works Department hosted the Public Works Christmas Luncheon, which included a festive holiday meal, refreshments, and desserts. Public Works personnel welcomed approximately 50 invitees, including Village Trustees, Village Hall administration, Fire & Police Department personnel, and active and retired Public Works personnel. Mayor Daniel DiMaria and Public Works Director Michael Lukich delivered brief remarks. The luncheon marked the close of another outstanding and productive year for the Public Works Department team.

MORTON GROVE
PUBLIC WORKS

The logo for Morton Grove Public Works features a stylized tree with a brown trunk and green foliage. The words "MORTON GROVE" are arched above the tree, and "PUBLIC WORKS" is written in a straight line below it, with the tree trunk acting as a separator between the two phrases. A horizontal line runs beneath the word "WORKS".