
City of Orono

Capital Improvement Plan

(2019 – 2028)

Adopted – 12/10/2018



CIP OVERVIEW

The overall goal of a Capital Improvement Plan (CIP) is to maintain facilities and schedule upgrades and replacements to avoid system failures and/or extraordinary short-term expenses. Once established, the plan should be updated annually to reflect changing maintenance needs and capital resources. The typical planning period for a CIP is five years; however, the City of Orono has chosen to evaluate its needs for planning purposes for a period of 10-years.

The Capital Improvement Plan is included in Appendix A of this report. The first five years of the plan are intended to provide short term needs that can be used as the basis for the City's annual budgeting process. The remaining 5 years are intended to provide the City with general planning level estimates so that the expenditures can be spread out over time and the costs can be anticipated and planned for.

Using the City's 2019 budget and current fund levels as a baseline, projected fund balances have been included in Appendix B of this report. In general, the following funding sources are available to fund the Capital Improvement Plan:

- **General Fund** – Funding improvements out of the general fund will require the City to account for the improvements when the City's tax levy is established. Funding for the Police CIP is mainly from the general fund. The general fund is typically not considered a good funding source to cover the cost of larger infrastructure improvements such as street and utility reconstruction.
- **Park Fund** – This fund is used for the acquisition, development, and improvement of City parks. Funding comes from Park dedication fees and interest earned on the fund balance.
- **Improvement / Equipment Overlay Fund** – This fund is used to buy non-police general fund department assets such as equipment, and IT purchases. Some park and golf course expenditures are also funded by this fund. The source of funding for this fund is an annual transfer from the general fund.
- **Community Investment Fund** – This fund has been established to fund projects that benefit the entire community and have no other funding source. The original amount in the fund is from the remaining balance of the Building Fund, which was created to construct City Hall.
- **Municipal State Aid Fund** – This fund is used for funding improvements to the City's Municipal State Aid road system. Debt service associated with this fund is paid through the City's annual allotment from the State.

- **Pavement Management Fund** – This fund is used for the maintenance of Non Municipal State Aid roads. The funding source is through the sale of bonds. Debt service associated with this fund is paid through taxes.
- **Enterprise Funds** – As part of owning and operating the water, sewer, and storm sewer utilities, the City charges fees for providing service to the end users. The City also pursues grant money for improvements when applicable. The City evaluates the rate structure for each of these utilities to ensure that the income generated is sufficient to pay both operating costs and needed improvements.
- **429 Improvement Bonds** – The improvements identified in this report such as street reconstruction, water main replacement, and sanitary sewer replacement may be funded by issuing bonds. State law allows the City to issue bonds for improvements and assess the properties that benefit from the project for a portion of the costs. The payback period for the bonds varies but is typically 10 to 20 years. The revenue for debt payment of the bonds would be from special assessments and/or City taxes.
- **Special Assessments** – Special assessments are an indirect form of taxation. They are a way for cities to charge certain properties for the cost of making a local improvement, or to collect certain charges that will benefit those properties. Special assessments represent the increase in a property's value as a result of the project.
- **Permanent Improvement Revolving (PIR) Fund** – This fund is for temporary funding of projects prior to the sale of bonds or the levy of Special Assessments. The source of funding for this fund is through Special Assessments, Interest, and the repayment of expenditures from permanent funding sources.

A summary of each Fund along with the improvements proposed within the first five years is included on the following pages. Each summary includes a description of the improvements, and potential funding sources.

PARKS CIP

The Parks CIP includes playground equipment, land purchases and improvements, golf course land purchases and improvements, and replacement of dock top sections (5% per year) and dock replacements. It is the City's philosophy to schedule park equipment replacement on a regular basis. The expected life of playground equipment is 15 to 20 years. Playground equipment is currently located in Antoine Park, Hackberry Park, Bederwood Park, Crystal Bay Park, and Navarre Park. The City has 10 to 12 docks that should be replaced every 10 to 15 years. Park Benches and tables should be replaced every 10 years.

Proposed Improvements

2019

- Trail Construction along CSAH 19 to Dakota Trail - \$115,000
- Bederwood Park Improvements - \$170,000
- Big Island ADA Trails - \$54,500
- Golf Course Fairway 7 & 8 Drainage - \$21,400
- Golf Course Cart Trail - \$20,000

2020

- CSAH 112 PH 3 Trail (School to CSAH 6) - \$137,000
- East Long Lake Road to Trail - \$120,000
- Big Island Restroom - \$37,500
- Big Island Amenities - \$53,250
- Golf Course Fire Pit - \$26,885

2021

- Park Equipment (Navarre, Hackberry, Bederwood, Crystal Bay, Fagerness) - \$60,000
- Dock Replacement (15 year life) - \$4,500
- County Road 6 Trail (Old Crystal Bay - Willow) Improvement - \$36,402
- Basket Ball Court Surfacing - Crystal Bay - \$10,000
- Golf Course Lawn Bowling - \$80,000

2022

- Basket Ball Court Surfacing – Hackberry - \$10,000
- Hackberry Improvements - \$100,000
- Golf Course Wetland and Fairway #4 Improvements - \$160,000

2023

- Golf Course Tow Rope - \$102,000
- Golf Course Perimeter Trail - \$214,700

Potential Funding Sources

- Park Fund
- Grants
- Lurton Park Fund
- Improvement/Equipment Outlay Fund – Annual Transfer from General Fund
- Storm Water Funding for Ponds

EQUIPMENT CIP

The Equipment CIP is based on the City's standard practice for equipment replacement. All equipment replacement is based on age, mileage / hours, and maintenance records. Each piece of equipment is evaluated annually and the life is extended when possible.

Proposed Improvements

2019

- Ice Resurfacers - \$11,000
- Greens Mower #606 - \$48,000
- Debris Blower #607 - \$7,300
- Truck, 3/4 Ton Pickup w/Plow (Sign Truck) #708 - \$70,000
- Boom / Lift #708P - \$50,000

2020

- Aerator #61 - \$22,500
- Greens / Turf Roller #618 - \$13,000
- Jet Rodder #711 - \$300,000
- Televising equipment #715 - \$100,000
- Tractor (ROW Mower) #450 - \$49,400
- Flail Mower #450A - \$32,000

2021

- Small Utility Tractor/ Vehicle w/ Sprayer #604 - \$49,000
- Fertilizer Spreader #608 - \$6,000
- Top Dresser #619 - \$16,800
- Utility Service Truck with hoist #712 - \$63,000
- Generator, 30KW w/ light tower #851 - \$20,000
- Hot Patch Truck #432 - \$188,000

2022

- Vactor Truck #713 - \$450,000

2023

- Skid loader #452 - \$53,500
- Tee Mower #603 - \$38,000
- Greens Mower #605 - \$8,800
- Truck, 3/4 Ton Pickup w/Plow #422 - \$50,000
- Truck, 1 Ton Dump Truck w/Plow and Sander #431 - \$102,800

Potential Funding Sources

- Improvement / Equipment Overlay Fund – Annual Transfer from General Fund
- Transfers from Utility Funds

BUILDING CIP

The Building CIP consists of projects at City facilities including the Administration Complex, Public Works, Post Office and the Navarre Fire Station.

Proposed Improvements

2019

- Post Office Entry Roof Replacement - \$20,000
- Emergency Generator - \$175,000
- PW Storage Racking - \$20,000

2020

- Park and Ride (striping) - \$12,000
- Park and Ride Chip Seal - \$12,050
- Public Works Cold Storage - \$30,000

2021

- Public Works Parking Lot Repave - \$119,560
- City Hall Carpet - \$20,000

2022

- Public Works Roof Replacement - \$665,760
- City Hall Parking Lot chip Seal (7years) - \$35,000

2023

- PW Air Handling System Refurbish - \$75,000

Potential Funding Sources

- Improvement/Equipment Outlay Fund – Annual Transfer from General Fund

IT CIP

The IT CIP includes PC replacement, servers, wireless access points, and printers. It is the City's standard practice to replace hardware and computer-related items on an established rotating schedule to maintain up-to-date office technology.

Proposed Improvements

2019

- PC Replacement - \$4,774
- Switch (Every 6 Years - 4 Switches) - \$8,500
- Cloud Based Servers - \$65,000
- Fund Accounting Software Upgrade - \$52,000

2020

- PC Replacement - \$4,917
- Wireless Access Points - City Hall & PW - \$15,000

2021

- PC Replacement - \$5,065
- Printer (3 Years) - \$3,600
- Switch (Every 6 Years - 4 Switches) - \$9,000

2022

- PC Replacement - \$5,217
- File Server (4 Years) - \$12,500
- Phone Replacement (10 Years) - \$65,000

2023

- PC Replacement - \$5,373
- Switch (Every 6 Years - 4 Switches) - \$9,550

Potential Funding Sources

- Improvement/Equipment Outlay Fund – Annual Transfer from General Fund

LONG LAKE FIRE CIP

The Long Lake Fire CIP includes equipment purchases and replacements.

Proposed Improvements

2019

- Replace U11 - \$85,000
- Carpet Replacement and Paint at Station 2 - \$30,000
- Replace SCBA - \$250,000

2020

- Portable Radio Replacement - \$21,500

2021

- Replace CMD 2 - \$50,000

2022

- Portable Radio Replacement - \$23,000

2023

- Replace CMD1 - \$50,000

Potential Funding Sources

- Improvement/Equipment Outlay Fund (Long Lake Fire Special Account) – Annual Transfer from General Fund

COMMUNITY INVESTMENT CIP

The Community Investment CIP includes projects that benefit the entire community and have no funding source other than the Community Investment Fund. The original amount in the fund is from the remaining balance of the Building Fund, which was created to construct City Hall.

Proposed Improvements

2019

- None

2020

- None

2021

- County Road 112 Turn Back (Lighting/Sidewalks) - \$568,970

2022

- None

2023

- None

Potential Funding Sources

- Community Investment CIP

PUBLIC WORKS – STREETS CIP

The City of Orono has over 49 miles of streets. The actual life of a road depends on several factors including the quality of construction, the amount of traffic, soil conditions, drainage, and the types of material that are used for construction. For a well-constructed bituminous street, a typical life cycle includes seal coating the surface of the roadway every 3 to 7 years, a mill and overlay at year 15 to 20, and reconstruction at year 30.

As indicated above, there are different preventative maintenance methods that can be used to maximize the life of a pavement. Two of the most common and effective methods include seal coating and mill and overlay. The effectiveness of each of these methods is dependent upon the condition of the pavement and the type, extent and severity of the pavement distress present.

Seal Coat

As the City is aware, a seal coat consists of the application of emulsified asphalt and loose aggregate to the existing surface. After the specified “curing” time, the excess aggregate is swept up and removed.

This rehabilitation method is typically used several times throughout the life of a pavement. Seal coats are most effective when used on pavements in relatively good condition. This method is used to provide a new driving surface and to re-seal the pavement surface to provide some protection from weathering. The useful life of a seal coat is generally 3 to 7 years depending on the type of materials that are used and the condition of the pavement to which it is applied.

The advantages of seal coating are as follows:

- Relatively low initial capital expense
- Provides improved skid resistance
- Provides some moisture protection to the pavement
- Minimal disruption to traffic
- Provides an aesthetically uniform surface

The disadvantages of seal coating include the following:

- Does not improve structural integrity
- Short useful life
- Requires patching and sealing of major cracks prior to application
- Limited effectiveness on pavements in poor condition

In order to maximize the life of the City's pavements, it is recommended that the City continue to seal coat the streets on a regular basis (every 3 to 7 years).

Mill and Overlay

A mill and overlay consists of removing all or a portion of the in place bituminous surface and placing an application of a plant-mixed surface over the remaining surface. This rehabilitation method is typically used 1-2 times throughout the life of a pavement. Mill and overlays are most effective on pavements that are in moderate condition and with a stable subgrade. This method is used to replace the pavement surface and to increase or restore the pavement's structural integrity. The useful life of a mill and overlay is generally 7 to 10-years depending upon the condition of the pavement to which it is applied.

The advantages of a mill and overlay are as follows:

- Moderate initial capital expense
- Provides new pavement surface
- Increases or restores structural integrity of the pavement
- Minimal disruption to traffic
- Does not raise the elevation of the street

The disadvantages of a mill and overlay include the following:

- Requires patching and repair of weak subgrade areas prior to application
- Increased cost compared to an overlay with no milling
- Limited effectiveness on pavements in poor condition
- Useful life is variable depending upon the condition of the existing pavement
- Ineffective on pavements with structurally limited subgrades

Reconstruction

Reconstruction consists of removal of the entire existing pavement section and the construction of a new pavement structure, including bituminous, aggregate base, geotextile fabric, soil correction, etc.

This method is used when the existing pavement has deteriorated to such an extent that other rehabilitation methods are ineffective or utility construction is necessary. The useful life of a reconstructed pavement can be 25 to 30 years with proper maintenance and use of other rehabilitation methods throughout the pavement's life.

The advantages of reconstruction are as follows:

- Provides a new pavement structure
- Allows for soil correction below the street where necessary
- Long term useful life
- Allows for the opportunity for utility improvements

The disadvantages of reconstruction include the following:

- High initial capital expense
- Moderate to high disruption to traffic

Projects included in the Streets CIP have been identified by the City's Pavement Management Plan. Projects include both Municipal State Aid (MSA) streets as well as non-MSA streets. Proposed improvements include preventative maintenance activities such as seal coating and crack filling. In addition, structural improvements such as mill and overlays and reconstructions are included along with various unmet needs that have been identified in the City's Pavement Management Plan.

Proposed Improvements

2019

- Forest Arm Lane - \$364,956
- East Long Lake Road - \$153,890
- Tonkaview Lane - \$160,694
- Chevy Chase Drive - \$276,755
- Preventive Maintenance - \$50,000
- Contracted Street Maintenance - \$50,000
- Ferndale Road North (Shared with Plymouth) - \$75,000

2020

- Windjammer (North Arm to End) - \$71,834
- Smith and Lyman Avenues - \$112,146
- Casco Circle - \$120,435
- Park Lane - \$29,255
- Preventive Maintenance - \$150,000
- Contracted Street Maintenance - \$50,000

2021

- Kelley Parkway – Old Crystal Bay Rd to Stonebay - \$72,666
- Dickenson Street - \$57,048

- Glendale Drive - \$33,644
- Orchard Park Road - \$142,132
- Rest Point Lane - \$28,524
- Togo Road - \$73,138
- Preventive Maintenance - \$150,000
- Contracted Street Maintenance - \$50,000

2022

- North Arm Drive - \$299,747
- Livingston & Navarre Aves - \$231,751
- Preventive Maintenance - \$150,000
- Contracted Street Maintenance - \$50,000

2023

- Townline Road (Shared with Independence) - \$140,426
- Briar Street - \$43,517
- Preventive Maintenance - \$150,000
- Contracted Street Maintenance - \$50,000

Potential Funding Sources

- Pavement Management Fund
- Municipal State Aid Fund
- Assessments
- General Fund / Debt Service Transfer

PUBLIC WORKS - WATER CIP

The existing water main system consists of pipe ranging between 6” to 12”. Pipe materials include PVC and ductile iron. There are approximately 74,700 feet of pipe in the South System and approximately 41,450 feet in the North System. The East System has approximately 8,650 feet of pipe. The majority of the water main was installed between 1967 and 2011. The City has two water towers. The south tower has a 200,000 gallon tank and was built in 1971. The north tower has a 400,000 gallon tank and was built in 1992. The City also has three existing wells; two in the South System and only one in the North System.

The life cycle of a water main depends on several factors including the quality of construction, the type of material used in construction, and soil conditions. In growing communities it is also possible for a water main to become functionally obsolete if the size of the main prevents the system from meeting demand. In general, a well-constructed water main system can have a life of 50 or more years.

Projects identified in the Water CIP include the costs associated with maintaining and improving the water system such as equipment rehabilitation, water tower maintenance, and water main improvements and replacement.

Proposed Improvements

2019

- North Water Plant Painting - \$21,000
- South Water Plant Painting - \$78,000
- Well #3 Screen - \$92,000
- Water Main Replacement (CSAH15/19) W/Road - \$169,855
- Water Valve Replacements (4 / Year) - \$24,000
- Water Meter Replacement (every 15yr) - \$90,000

2020

- Water main replacement Casco Circle W/Road - \$357,700
- Water main replacement E. Navarre Streets W/Road - \$327,880
- Water Valve Replacements (4 / Year) - \$24,600
- Water Meter Replacement (every 15yr) - \$90,000

2021

- Navarre Plant Control Upgrade - \$55,200
- North Distribution Extension (West of OCB) - \$120,000
- South Tower Repaint and Rehabilitation - \$350,000

- Water main replacement CSAH 19 S of CSAH 15 - \$181,000
- Water Valve Replacements (4 / Year) - \$25,215
- Water Meter Replacement (every 15yr) - \$90,000

2022

- Water main Loop Concordia - \$230,000
- Water Valve Replacements (4 / Year) - \$25,845
- Water Meter Replacement (every 15yr) - \$90,000

2023

- North Water Tower Maintenance - \$62,500
- Water main replacement Togo Road W/Road - \$200,060
- Water Valve Replacements (4 / Year) - \$26,492
- Water Meter Replacement (every 15yr) - \$90,000

Potential Funding Sources

- Enterprise Funds
- Assessments
- Grants

PUBLIC WORKS - SANITARY SEWER CIP

The existing sanitary sewer system consists of pipe ranging between 1.25” to 21”. Pipe materials include PVC, VCP, and Truss. The majority of the sanitary sewer was installed between 1963 and 2011.

Due to the City’s proximity to Lake Minnetonka and other water bodies, many of the City’s sanitary sewer lines are below the groundwater table and are susceptible to infiltration. Infiltration is caused by leaks in pipes, manholes, and service connections that allow groundwater to penetrate the system. Roots penetrating the sewer can also be a problem.

The life cycle of a sanitary sewer system depends on several factors including the quality of construction, the type of material used in construction, and the proximity of landscaping such as trees and shrubs that may cause root issues. In growing communities it is also possible for a sanitary sewer to become functionally obsolete if the size of the main is not adequate to accept the flow. In general, older sanitary sewer systems that have infiltration issues need to be improved with either sewer lining or complete replacement. In most cases, the preferred method depends on the condition of the lateral services. Although both sewer mains and services can be lined to eliminate infiltration, it may be more cost effective to replace the main and services if significant infiltration exists in a majority of the service lines. The City is currently being charged an I&I surcharge from the MCES. Work performed as part of the CIP that reduces I&I can be counted against the surcharge.

Projects identified in the Sanitary Sewer CIP include the costs associated with maintaining and improving the sanitary sewer system including lift station updates, Grinder Station updates, Generator improvements, sewer lining, and equipment purchases. The City currently has 45 lift stations that it is responsible for maintaining. Typically, the City plans for rehabilitating two lift stations and replacing one generator per year.

Proposed Improvements

2019

- Sewer Rehabilitation - \$281,377
- Annual Sewer Televising (1/5 of City Each Year) - \$48,690
- Lift Station #15 Generator - \$75,000
- Lift Station #1 Generator - \$75,000
- Lift Station #1 Rehab - \$20,000
- Grinder Station #10 - \$40,000
- Grinder Station #9 Rehab - \$40,000
- Lift Station Monitoring (Mission) - \$26,000
- Forest Arms Main Rehab w/ Rd - \$18,000
- Force Main replacement with CSAH 19/15 Project - \$180,000

2020

- Sewer Rehabilitation - \$289,818
- Annual Sewer Televising (1/5 of City Each Year) - \$50,150
- Lift Station #3 Generator - \$75,000
- Lift Station #13 Generator - \$75,000
- Lift Station #13 Rehab - \$60,000
- Lift Station #3 Rehab - \$60,000
- Northern Utilities Expansion (W/CSAH 113 PH3) - \$436,000
- Lift Station Monitoring (Mission) - \$26,000
- Windjammer Main Rehab with road - \$24,750

2021

- Sewer Rehabilitation - \$298,513
- Annual Sewer Televising (1/5 of City Each Year) - \$51,655
- Lift Station #16 Generator - \$75,000
- Lift Station #25 Generator - \$75,000
- Lift Station #11 Rehab - \$62,000
- Lift Station #5 Rehab - \$62,000
- Lift Station Monitoring (Mission) - \$26,000
- Force Main Replacement Tonkawa PH2 - \$225,000

2022

- Sewer Rehabilitation - \$307,468
- Annual Sewer Televising (1/5 of City Each Year) - \$53,205

- Lift Station #11 Generator - \$75,000
- Lift Station #17 Generator - \$75,000
- Lift Station #4 Rehab - \$64,000
- Lift Station #16 Rehab - \$64,000
- Force Main Replacement Tonkawa PH3 - \$215,250

2023

- Sewer Rehabilitation - \$316,692
- Annual Sewer Televising (1/5 of City Each Year) - \$54,801
- Lift Station #19 Generator - \$75,000
- Lift Station #23 Generator - \$75,000
- Lift Station #25 Rehab - \$65,600
- Lift Station #28 Rehab - \$65,600
- Force Main Replacement Tonkawa PH4 - \$139,950

Potential Funding Sources

- Enterprise Funds
- Assessments
- Grants

PUBLIC WORKS - STORM SEWER CIP

Current regulations continue to require the City to make improvements to its storm water facilities. Upcoming TMDL requirements will be another factor that will potentially drive the need for storm water improvement projects. Projects that have been identified in the Storm Sewer CIP include specific projects for wetland restoration, improvements for erosion control purposes, and measures to improve water quality. The CIP includes storm water facility improvements associated with street improvement projects and pond cleaning and maintenance activities, which are anticipated to have an on-going expense.

Proposed Improvements

2019

- Storm Watershed Delineation and Pond Assessments - \$10,000
- Forest Arms Lane (w/road reconstruct) - \$91,804
- East Long Lake S (w/ Road reconstruct) - \$34,210
- Ferndale Rd N (w/M&O) - \$50,000
- Tonkaview Lane (w/ Road reconstruct) - \$87,531
- Chevy Chase Drive (w/ Road reconstruct) (HA-1) - \$146,330
- OCB Pipe Upsizing (Countryside south) - \$88,500
- Storm Sewer Improvements/ Replacements - \$200,000

2020

- Storm Watershed Delineation and Pond Assessments - \$10,000
- Windjammer Stormwater (w/road reconstruct) - \$10,775
- Windjammer (North Arm to End) (w/ Road reconstruct) - \$71,834
- Smith and Lyman Avenue (w/ Road reconstruct) - \$66,321
- Casco Circle (w/ M&O) - \$122,065
- East Navarre Roads (w/ M&O) - \$30,572
- Park Lane (w/ Road reconstruct) - \$8,777
- East Long Lake Road Shoreline Restoration - \$102,500
- Casco Point Park Outlet (SWMP O-1) - \$58,000
- Casco Point Park Bioretention Basin (SWMP CB-1) - \$55,000
- South Casco Point Road Sump (SWMP CB-2) - \$36,000
- East Long Lake Road N Improvements (SWMP LL-1) - \$82,000
- Storm Sewer Improvements/ Replacements - \$205,000

2021

- Kelley Parkway - OCB Rd to Stone Bay (w/ Road M&O) - \$5,450
- Dickenson Street (w/ Road reconstruct) - \$8,557
- Glendale Drive (w/ Road reconstruct) - \$5,047
- Orchard Park Road (w/ Road reconstruct) - \$21,320
- Rest Point Lane (w/ Road reconstruct) - \$4,279
- Casco cove Outlet (SWMP O-2) - \$80,000
- Casco cove Bioretention Basin (CB-3) - \$57,000
- Cherry Place Ravine Improvement (SWMP NA-1) - \$23,000
- Surface Water Management Projects - \$100,000
- Storm Sewer Improvements/ Replacements - \$210,125
- Pond Cleaning/Maintenance (1/year) - \$50,000

2022

- North Arm Drive (w/ Road reconstruct) - \$44,962
- Willow Dr (Fox-Brown) (w/ Road reconstruct) - \$34,763
- Surface Water Management Projects - \$160,000
- Storm Sewer Improvements/ Replacements - \$215,378
- Pond Cleaning/Maintenance (1/year) - \$51,250

2023

- Street Stormwater Improvements - \$140,000
- Surface Water Management Projects - \$164,000
- Storm Sewer Improvements/ Replacements - \$220,763
- Pond Cleaning/Maintenance (1/year) - \$52,531

Potential Funding Sources

- Enterprise Fund
- Grants

POLICE CIP

The Police CIP includes vehicle purchases and replacements, technology purchases, and weapons.

Proposed Improvements

2019

- Squad 232 (Ford SUV) CSO - \$39,400
- Weapons – Rifles - \$5,000
- Squad 238 (Ford SUV) - \$38,000
- Squad 237 (Ford SUV) - \$38,000
- Squad 841 (Mound) - \$38,000
- Technology Replacement - \$10,609
- Squad Video Cameras - \$15,000
- Mobile Data Computer - \$5,305

2020

- Squad 235 (Durango) Chief - \$38,500
- Squad 243 (Ford SUV) - \$38,500
- Squad 231 WMDTF (Forfeiture Funds) - \$38,500
- Technology Replacement - \$10,927
- Mobile Data Computer - \$5,464

2021

- Squad 229 (Charger) - \$40,000
- Squad 227 (Charger) - \$40,000
- Squad 228 (Charger) - \$40,000
- Squad 853 (Equinox) Investigations - \$39,000
- Technology Replacement - \$11,255
- Mobile Data Computer - \$5,628

2022

- Squad 233 (Ford SUV) - \$40,000
- Squad 236 (Ford SUV) - \$40,000
- Squad 230 (Tahoe) SRO/Reserves - \$40,000
- Technology Replacement - \$11,593
- Squad Video Cameras - \$15,000
- Mobile Data Computer - \$5,796

2023

- Squad 242 (Ford SUV) - \$40,000
- Squad 240 (Charger) - \$40,000
- Squad 843 (Mound) Tahoe/Special Use - \$40,000
- Squad 223 (Escape) Investigations DP - \$40,000
- Technology Replacement - \$11,941
- Weapons – Handguns - \$20,000
- Mobile Radios - \$50,000
- Mobile Data Computer - \$5,970

Potential Funding Sources

- General Fund
- Forfeiture Fund
- Retained Contract Funds

Capital Improvement Plan, City of Orono

Summary of Costs										
	5-Year CIP					Planning Period				
CIP	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Parks (A-1)	\$380,900	\$374,635	\$190,902	\$270,000	\$316,700	\$4,775	\$64,946	\$0	\$5,068	\$0
Equipment (A-2a)	\$186,300	\$516,900	\$342,800	\$450,000	\$253,100	\$77,500	\$600,000	\$535,800	\$37,000	\$90,461
Building (A-2b)	\$215,000	\$54,050	\$139,560	\$700,760	\$75,000	\$320,000	\$0	\$209,000	\$22,523	\$0
IT (A-2c)	\$130,274	\$19,917	\$17,665	\$82,717	\$14,923	\$9,434	\$15,800	\$19,371	\$21,048	\$6,229
Long Lake Fire (A-3)	\$310,250	\$18,275	\$42,500	\$19,550	\$42,500	\$423,300	\$72,250	\$0	\$106,250	\$425,000
Community Investment (A-4)	\$0	\$0	\$568,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Public Works - Streets - PMP(A-5)	\$1,131,295	\$737,484	\$607,152	\$731,498	\$383,943	\$1,145,336	\$959,969	\$1,091,763	\$1,090,436	\$1,105,002
Public Works - Water (A-6)	\$474,855	\$800,180	\$821,415	\$345,845	\$379,052	\$277,154	\$302,833	\$898,628	\$444,544	\$520,581
Public Works - Sanitary Sewer (A-7)	\$804,068	\$1,096,720	\$875,169	\$853,924	\$792,644	\$797,119	\$705,210	\$684,650	\$704,506	\$724,942
Public Works - Storm Sewer (A-8)	\$708,375	\$858,844	\$564,777	\$506,353	\$577,294	\$591,726	\$606,519	\$621,682	\$637,224	\$653,155
Police (A-9)	\$189,314	\$131,891	\$175,883	\$152,389	\$247,911	\$180,448	\$157,002	\$185,572	\$147,659	\$205,764
Totals	\$4,530,630	\$4,608,895	\$4,346,793	\$4,113,036	\$3,083,067	\$3,826,793	\$3,484,529	\$4,246,467	\$3,216,258	\$3,731,132

Debt Service Levy

Debt Issue	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2010 Street Reconstruction Bonds	\$132,725	\$134,825	\$131,520	\$133,325	\$134,530	\$130,000	\$130,725			
2014 Garage, Water, Refunding Bonds	\$165,300	\$162,900	\$166,700	\$161,000	\$282,000	\$277,000	\$277,000	\$278,860	\$278,000	\$278,000
2016 GO Refunding	\$412,975	\$413,275	\$412,780	\$416,675						
Current Debt Levy	\$711,000	\$711,000	\$711,000	\$711,000	\$416,530	\$407,000	\$407,725	\$278,860	\$278,000	\$278,000

Capital Improvement Plan, City of Orono

Parks CIP	Table A-1									
	5-Year CIP					Planning Period				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Park Equipment (Navarre, Hackberry, Bederwood, Crystal Bay, Fagerness)			\$60,000				\$64,946			
Dock Replacement (15 year life)			\$4,500			\$4,775			\$5,068	
CSAH 112 PH 3 Trail (School to CSAH 6)		\$137,000								
Trail Construction along CSAH 19 to Dakota	\$115,000									
Bederwood Park Improvements	\$170,000									
CR 6 Trail (OCB - Willow) Improvement			\$36,402							
East Long Lake Road to Trail		\$120,000								
Basket Ball Court Surfacing - Crystal Bay			\$10,000							
Basket Ball Court Surfacing - Hackberry				\$10,000						
Big Island ADA Trails	\$54,500									
Big Island Restroom		\$37,500								
Big Island Amenities		\$53,250								
Hackberry Improvements				\$100,000						
GC Wetland and Fairway #4 Improvements				\$160,000						
GC Fairway 7&8 Drainage	\$21,400									
GC Fire Pit		\$26,885								
GC Tow Rope					\$102,000					
GC Perimeter Trail					\$214,700					
GC Lawn Bowling			\$80,000							
GC Cart Trail	\$20,000									
Totals	\$380,900	\$374,635	\$190,902	\$270,000	\$316,700	\$4,775	\$64,946	\$0	\$5,068	\$0

Capital Improvement Plan, City of Orono

Equipment CIP

Table A-2a

Equipment Needs	Purchase	Expected	5 Year CIP					Planning Period				
	Year	Life (yrs)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Ice Resurfer			\$11,000									
Skid loader #452	2003	20					\$53,500					
Tee Mower #603	2004	20					\$38,000					
Small Utility Tractor/ Vehicle w/ Sprayer #604	2002	20			\$49,000							
Greens Mower #605	2004	20					\$8,800					
Greens Mower (riding) #606	1999	20	\$48,000									
Debris Blower #607	?	10	\$7,300									
Fertilizer Spreader #608		20			\$6,000							
Aerator #611	1988	25		\$22,500								
Mower (Big island) #615	2018	10										\$8,961
Greens / Turf Roller #618		30		\$13,000								
Top Dresser #619		30			\$16,800							
Building Inspection Vehicle #211	2011	15							\$40,300			
Jet Rodder #711	1976	40		\$300,000								
Utility Service Truck with hoist #712	2012	10			\$63,000							
Vactor Truck #713	2000	20				\$450,000						
Generator, 30KW w/ light tower #851	1984	20			\$20,000							
Televising equipment #715				\$100,000								
Tractor Loader Backhoe #430	2006	20							\$145,500			
Street Sweeper #460	2016	10						\$600,000				
Ford 3/4 Ton Pickup #709	2013	15									\$37,000	
Truck, 3/4 Ton Pickup w/Plow #422	2008	15					\$50,000					
Grader w/Plow Wing #423	1996	30							\$350,000			
Truck, 1 Ton Dump Truck w/Plow and Sander #431	2008	15					\$102,800					
Hot Patch Truck #432	1999	20			\$188,000							
Tractor (ROW Mower) #450	2005	15		\$49,400								
Skid loader #451	2013	20										\$70,000
Chipper #471	2004	20						\$40,500				
Truck, 3/4 Ton Pickup w/Plow (Sign Truck) #708	2005	15	\$70,000	Bucket Truck								
Boom / lift #708P			\$50,000									
Flail Mower #450A	2013	10		\$32,000								
Snow blower #451A	2013	15										\$11,500
Chevy 3/4 Ton Pickup w/Plow #710	2012	15						\$37,000				
Totals			\$ 186,300	\$ 516,900	\$ 342,800	\$ 450,000	\$ 253,100	\$ 77,500	\$ 600,000	\$ 535,800	\$ 37,000	\$ 90,461

Capital Improvement Plan, City of Orono

Building CIP						Table A-2b				
	5-Year CIP					Planning Period				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Public Works Roof Replacement				\$665,760						
City Hall Roof Replacement						\$320,000				
Police Department Roof Replacement								\$209,000		
Post Office Entry Roof Replacement	\$20,000									
Public Works Parking Lot Repave			\$119,560							
City Hall Carpet			\$20,000						\$22,523	
Emergency Generator	\$175,000									
City Hall Parking Lot chip Seal (7years)				\$35,000						
Park and Ride (striping)		\$12,000								
Park and Ride Chip Seal		\$12,050								
PW Cold Storage		\$30,000								
PW Storage Racking	\$20,000									
PW Air Handling System Refurbish					\$75,000					
Totals	\$215,000	\$54,050	\$139,560	\$700,760	\$75,000	\$320,000	\$0	\$209,000	\$22,523	\$0

Capital Improvement Plan, City of Orono

IT CIP	Table A-2c									
	5-Year CIP					Planning Period				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
File Server (4 Years)				\$12,500				\$13,500		
PC Replacement	\$4,774	\$4,917	\$5,065	\$5,217	\$5,373	\$5,534	\$5,700	\$5,871	\$6,048	\$6,229
Printer (3 Years)			\$3,600			\$3,900			\$4,300	
Switch (Every 6 Years - 4 Switches)	\$8,500		\$9,000		\$9,550		\$10,100		\$10,700	
Phone Replacement (10 Years)				\$65,000						
Wireless Access Points - City Hall & PW		\$15,000								
Web Site Upgrade										
Cloud Based Servers	\$65,000									
Fund Accounting Software Upgrade	\$52,000									
Totals	\$130,274	\$19,917	\$17,665	\$82,717	\$14,923	\$9,434	\$15,800	\$19,371	\$21,048	\$6,229

Capital Improvement Plan, City of Orono

Long Lake Fire CIP											Table A-3	
	Purchase	Expected	5-Year CIP					Planning Period				
Project	Year	Life (yrs)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Portable Radio Replacement	2004	10		\$21,500		\$23,000		\$23,000			\$25,000	
Replace E11 with New Rescue Pumper	2004	20						\$475,000				
Replace U11 with New Utility Truck	1999	15	\$85,000									
Replace U21 with New Utility Truck	2000	15							\$85,000			
Replace CMD2	2012	10			\$50,000							
Replace CMD1	2013	10					\$50,000					
Replace E21 with New Rescue Pumper	2003	20										\$500,000
Refurbishment of B11	2004	20									\$100,000	
Carpet Replacement and Paint at Station 2	2004	15	\$30,000									
Replace SCBA	2006	15	\$250,000									
Totals:			\$365,000	\$21,500	\$50,000	\$23,000	\$50,000	\$498,000	\$85,000	\$0	\$125,000	\$500,000
<i>City of Orono's Portion (85%)</i>			\$310,250	\$18,275	\$42,500	\$19,550	\$42,500	\$423,300	\$72,250	\$0	\$106,250	\$425,000
Totals			\$310,250	\$18,275	\$42,500	\$19,550	\$42,500	\$423,300	\$72,250	\$0	\$106,250	\$425,000

Capital Improvement Plan, City of Orono

Community Investment CIP										Table A-4
	5-Year CIP					Planning Period				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
County Road 112 Turn Back (Lighting/Sidewalks) *			\$568,970							
Totals	\$0	\$0	\$568,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0

* The scope of the County Road 112 Turn Back Project is yet to be determined. Therefore, the cost estimate for the project is subject to change and refinement as the project development process proceeds. The City's final share of the project will be established by the County's cost sharing policy and the final scope of the project as developed by the City of Orono and Hennepin County.

Capital Improvement Plan, City of Orono

Public Works - Streets CIP		Table A-5									
Project	Type	5-Year CIP					Planning Period				
		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Forest Arm Lane	Rehabilitation	\$ 364,956									
East Long Lake Road	Rehabilitation	\$ 153,890									
Windjammer (North Arm to End)	Rehabilitation		\$ 71,834								
Fox Street (Brown-Orono Orchard)	Rehabilitation						\$ 418,271				
Smith and Lyman Avenues	Mill and Overlay		\$ 112,146								
Tonkaview Lane	Mill and Overlay	\$ 160,694									
Townline Road (Shared with Independence)	Mill and Overlay					\$ 140,426					
Chevy Chase Drive	Mill and Overlay	\$ 276,755									
Kelley Parkway - OCB Rd to StoneBay	Mill and Overlay			\$ 72,666							
Casco Circle	Mill and Overlay		\$ 120,435								
Dickenson Street	Mill and Overlay			\$ 57,048							
Glendale Drive	Mill and Overlay			\$ 33,644							
East Navarre Roads (Kenwood, Olive, Lafayette Ridge Ct.)	Mill and Overlay		\$ 203,814								
Orchard Park Road	Mill and Overlay			\$ 142,132							
Rest Point Lane	Mill and Overlay			\$ 28,524							
North Arm Drive	Mill and Overlay				\$ 299,747						
Park Lane	Reconstruct		\$ 29,255								
Togo Road	Mill and Overlay			\$ 73,138							
Briar Street	Mill and Overlay					\$ 43,517					
Livingston & Navarre Aves	Mill and Overlay				\$ 231,751						
Willow Drive - Fox St- Brown Road	Mill and Overlay						\$ 242,987				
Forest Lake Drive	Mill and Overlay						\$ 58,511				
Preventive Maintenance	CS	\$ 50,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 153,000	\$ 156,060	\$ 159,181
Contracted Street Maintenance	Crack Seal / Patching	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Long Range Planning -Mill and Overlay								\$ 250,000	\$ 255,000	\$ 260,100	\$ 265,302
Long Range Reconstructs								\$ 300,000	\$ 306,000	\$ 312,120	\$ 318,362
Total - Pavement Management Fund		\$ 1,056,295	\$ 737,484	\$ 607,152	\$ 731,498	\$ 383,943	\$ 919,769	\$ 750,000	\$ 764,000	\$ 778,280	\$ 792,846

Capital Improvement Plan, City of Orono

Public Works - Streets CIP											Table A-5
		5-Year CIP					Planning Period				
Project	Type	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
MSA Streets:											
Ferndale Road North (Shared with Plymouth)	Mill and Overlay	\$ 75,000									
Brown Road North	Mill and Overlay							\$ 209,969			
Willow Drive - Watertown-Fox St	Mill and Overlay						\$ 225,567				
Old Crystal Bay Road - Co Rd 112-Watertown	Mill and Overlay									\$ 312,156	
Old Crystal Bay Road - Watertown to Fox St	Mill and Overlay										\$ 312,156
McCulley Road	Mill and Overlay								\$ 327,763		
Total MSA Streets:		\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 225,567	\$ 209,969	\$ 327,763	\$ 312,156	\$ 312,156
MSA Debt Service		\$ 141,486	\$ 143,111	\$ 139,661	\$ 141,061	\$ 141,945	\$ 137,468	\$ 137,687	\$ 142,625		
Totals Streets		\$ 1,131,295	\$ 737,484	\$ 607,152	\$ 731,498	\$ 383,943	\$ 1,145,336	\$ 959,969	\$ 1,091,763	\$ 1,090,436	\$ 1,105,002

Capital Improvement Plan, City of Orono

Public Works - Water CIP						Table A-6				
Project	5-Year CIP					Planning Period				
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Navarre Plant Control Upgrade			\$55,200							
North Water Tower Maintenance					\$62,500					\$70,000
North Water Plant Painting	\$21,000									
South Water Plant Painting	\$78,000									
Navarre Plant Salt Brine Tank Rehab.								\$400,000		
North Distribution Extension (West of OCB)			\$120,000							
Well #4 Inspection & Maintenance (every 10 yrs)							\$20,000			
Well #1 Rehabilitation (every 20 yrs)								\$150,000		
Well #2 Rehabilitation (every 20 yrs)									\$150,000	
Well #3 Rehabilitation (every 20 yrs)										\$150,000
Well #3 Screen	\$92,000									
South Tower Repaint and Rehabilitation			\$350,000					\$60,000		
Water Main Replacement (CSAH15/19) W/Road	\$169,855									
Water Main replacement CSAH 19 S of CSAH 15			\$181,000							
Water Main replacement Casco Circle W/Road		\$357,700								
Water Main replacement E. Navarre Streets W/Road		\$327,880								
Water Main replacement Togo Road W/Road					\$200,060					
Water Main Loop Concordia				\$230,000						
Water Valve Replacements (4 / Year)	\$24,000	\$24,600	\$25,215	\$25,845	\$26,492	\$27,154	\$27,833	\$28,528	\$29,242	\$29,973
Water Main Replacement						\$250,000	\$255,000	\$260,100	\$265,302	\$270,608
Water Meter Replacement (every 15yr)	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000					
Totals	\$474,855	\$800,180	\$821,415	\$345,845	\$379,052	\$277,154	\$302,833	\$898,628	\$444,544	\$520,581

Capital Improvement Plan, City of Orono

Public Works - Sanitary Sewer CIP						Table A-7				
Project	5-Year CIP					Planning Period				
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer Rehabilitation	\$281,377	\$289,819	\$298,513	\$307,469	\$316,693	\$326,194	\$335,979	\$346,059	\$356,441	\$367,134
Annual Sewer Televising (1/5 of City Each Year)	\$48,690	\$50,151	\$51,655	\$53,205	\$54,801	\$56,445	\$58,139	\$59,883	\$61,679	\$63,530
Lift Station #15 Generator	\$75,000									
Lift Station #1 Generator	\$75,000									
Lift Station #3 Generator		\$75,000								
Lift Station #13 Generator		\$75,000								
Lift Station #16 Generator			\$75,000							
Lift Station #25 Generator			\$75,000							
Lift Station #11 Generator				\$75,000						
Lift Station #17 Generator				\$75,000						
Lift Station #19 Generator					\$75,000					
Lift Station #23 Generator					\$75,000					
Lift Station #27 Generator						\$75,000				
Lift Station #29 Generator						\$75,000				
Lift Station #1 Rehab	\$20,000									
Grinder Station #10	\$40,000									
Grinder Station #9 Rehab	\$40,000									
Lift Station #13 Rehab		\$60,000								
Lift Station #3 Rehab		\$60,000								
Lift Station #11 Rehab			\$62,000							

Capital Improvement Plan, City of Orono

Public Works - Sanitary Sewer CIP						Table A-7				
Project	5-Year CIP					Planning Period				
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Lift Station #5 Rehab			\$62,000							
Lift Station #4 Rehab				\$64,000						
Lift Station #16 Rehab				\$64,000						
Lift Station #25 Rehab					\$65,600					
Lift Station #28 Rehab					\$65,600					
Lift Station #2 Rehab						\$67,240				
Lift Station #6 Rehab						\$67,240				
Lift Station #30 Rehab							\$68,921			
Grinder Station #8 Rehab							\$40,000			
Lift Station #10 Rehab							\$68,921			
Lift Station Rehab (2 per year)								\$142,127	\$146,391	\$150,783
Northern Utilities Expansion (W/CSAH 113 PH3)		\$436,000								
Lift Station Monitoring (Mission)	\$26,000	\$26,000	\$26,000							
Forest Arms Main Rehab w/ rd.	\$18,000									
Windjammer Main Rehab with road		\$24,750								
Force Main replacement with CSAH 19/15 Project	180000									
Force main Replacement Tonkawa PH2			\$225,000							
Force main Replacement Tonkawa PH3				\$215,250						
Force main Replacement Tonkawa PH4					139950					
Sewer Main Replacements						\$130,000	\$133,250	\$136,581	\$139,996	\$143,496
Totals	\$804,068	\$1,096,720	\$875,169	\$853,924	\$792,644	\$797,119	\$705,210	\$684,650	\$704,506	\$724,942

Capital Improvement Plan, City of Orono

Public Works - Storm Sewer CIP

Table A-8

Project	5-Year CIP					Planning Period				
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Casco Point Park Outlet (SWMP O-1)		\$ 58,000								
Casco cove Outlet (SWMP O-2)			\$ 80,000							
Casco Point Park Bioretention Basin (SWMP CB-1)		\$ 55,000								
South Casco Point Road Sump (SWMP CB-2)		\$ 36,000								
Casco cove Bioretention Basin (CB-3)			\$ 57,000							
East Long Lake Road N Improvements (SWMP LL-1)		\$ 82,000								
Cherry Place Ravine Improvement (SWMP NA-1)			\$ 23,000							
OCB Pipe Upsizing (Countryside south)	\$ 88,500									
Surface Water Management Projects			\$ 100,000	\$ 160,000	\$ 164,000	\$ 168,100	\$ 172,303	\$ 176,610	\$ 181,025	\$ 185,551
Storm Sewer Improvements/ Replacements	\$ 200,000	\$ 205,000	\$ 210,125	\$ 215,378	\$ 220,763	\$ 226,282	\$ 231,939	\$ 237,737	\$ 243,681	\$ 249,773
Pond Cleaning/Maintenance (1/year)			\$ 50,000	\$ 51,250	\$ 52,531	\$ 53,845	\$ 55,191	\$ 56,570	\$ 57,985	\$ 59,434
Totals	\$ 708,375	\$ 858,844	\$ 564,777	\$ 506,353	\$ 577,294	\$ 591,726	\$ 606,519	\$ 621,682	\$ 637,224	\$ 653,155

Capital Improvement Plan, City of Orono

Police CIP												Table A-9
Project	Purchase Year	Expected Life (yrs)	5-Year CIP					Planning Period				
			2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Squad 232 (Ford SUV) CSO	2014	5	\$39,400					\$40,500				
Squad 233 (Ford SUV)	2014	5				\$40,000					\$42,500	
Squad 242 (Ford SUV)	2015	5					\$40,000					\$42,500
Squad 236 (Ford SUV)	2015	5				\$40,000					\$42,500	
Squad 238 (Ford SUV)	2014	5	\$38,000					\$40,500				
Squad 235 (Durango) Chief	2014	5		\$38,500					\$41,000			
Squad 240 (Charger)	2015	5					\$40,000					\$42,500
Squad 237 (Ford SUV)	2014	5	\$38,000					\$40,500				
Squad 243 (Ford SUV)	2015	5		\$38,500					\$41,000			
Squad 229 (Charger)	2013	5			\$40,000					\$42,000		
Squad 227 (Charger)	2012	5			\$40,000					\$42,000		
Squad 228 (Charger)	2012	5			\$40,000					\$42,000		
Squad 841 (Mound)	2011	5	\$38,000					\$40,500				
Squad 843 (Mound) Tahoe/Special Use	2010	5					\$40,000					\$42,500
Squad 223 (Escape) Investigations DP	2010	5					\$40,000					\$42,500
Squad 853 (Equinox) Investigations	2008	5			\$39,000					\$40,000		
Squad 230 (Tahoe) SRO/Reserves	2013	5				\$40,000					\$42,500	
Squad 231 WMDTF (Forfeiture Funds)	2008	TBD		\$38,500					\$41,000			
Technology Replacement			\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048	\$13,439	\$13,842
Weapons - Rifles			\$5,000									
Weapons - Handguns							\$20,000					
Supported or Partially Funded through Police Account in the PIR Fund												
Mobile Radios							\$50,000					
Squad Video Cameras			\$15,000			\$15,000			\$15,000			\$15,000
Mobile Data Computer			\$5,305	\$5,464	\$5,628	\$5,796	\$5,970	\$6,149	\$6,334	\$6,524	\$6,720	\$6,921
Totals			\$189,314	\$131,891	\$175,883	\$152,389	\$247,911	\$180,448	\$157,002	\$185,572	\$147,659	\$205,764

NOTES:

*Funding for the Police CIP is accounted for in the General Fund to accurately charge our contract cities for the cost of policing.

Capital Improvement Plan, City of Orono

MSA Fund		Current Fund Balance: \$0					State MSA Construction Balance = \$550,000					Table B-5a
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Annual Expenditures (MSA CIP)	\$75,000	\$0	\$0	\$0	\$0	\$225,567	\$209,969	\$327,763	\$312,156	\$312,156		
Annual MSA Maintenance Payment to the City	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438	\$39,438		
Debt Service (interest) - from MSA maintenance account.	\$36,288	\$33,138	\$29,838	\$26,388	\$22,938	\$19,188	\$14,813	\$10,125	\$5,250			
Debt Service (Principal) - from MSA Construction Account	\$105,000	\$110,000	\$115,000	\$115,000	\$120,000	\$125,000	\$125,000	\$130,000	\$140,000			
Total Expenses	\$255,725	\$182,575	\$184,275	\$180,825	\$182,375	\$409,192	\$389,219	\$507,326	\$496,844	\$351,594		
Yearly Allocation - MSA Maintenance	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833	\$123,833		
Yearly Allocation - MSA Construction	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751	\$201,751		
Annual Balance	\$69,859	\$143,009	\$141,309	\$144,759	\$143,209	(\$83,608)	(\$63,635)	(\$181,742)	(\$171,260)	(\$26,010)		
Year End Cash Balance	\$69,859	\$212,868	\$354,177	\$498,936	\$642,145	\$558,537	\$494,902	\$313,161	\$141,901	\$115,892		

Pavement Management Fund		Current Balance: \$462,233										Table B-5b
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Annual Operation and Maintenance (1)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
CIP Expenditures	\$1,056,295	\$737,484	\$607,152	\$731,498	\$383,943	\$919,769	\$750,000	\$764,000	\$778,280	\$792,846		
Total Expenses	\$1,056,295	\$737,484	\$607,152	\$731,498	\$383,943	\$919,769	\$750,000	\$764,000	\$778,280	\$792,846		
Revenues (1)	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000		
Pavement Management Levy	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450	\$544,450		
Annual Balance	(\$511,845)	(\$193,034)	(\$62,702)	(\$187,048)	\$460,507	(\$75,319)	\$94,450	\$80,450	\$66,170	\$51,604		
Year End Cash Balance	<b style="color: red;">(\$49,612)	<b style="color: red;">(\$242,646)	<b style="color: red;">(\$305,348)	<b style="color: red;">(\$492,396)	<b style="color: red;">(\$31,889)	<b style="color: red;">(\$107,208)	<b style="color: red;">(\$12,758)	\$67,692	\$133,862	\$185,466		

Water Fund		Current Balance: \$774,118										Table B-6
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
Annual Operation and Maintenance (1)	\$847,710	\$868,903	\$890,625	\$912,891	\$935,713	\$959,106	\$983,084	\$1,007,661	\$1,032,852	\$1,058,674		
Debt Service	\$135,000	\$157,000	\$156,000	\$155,000	\$158,000	\$101,500	\$100,000	\$100,000	\$100,500	\$104,000		
CIP Expenditures	\$474,855	\$800,180	\$821,415	\$345,845	\$379,052	\$277,154	\$302,833	\$898,628	\$444,544	\$520,581		
Total Expenses	\$1,457,565	\$1,826,083	\$1,868,040	\$1,413,736	\$1,472,765	\$1,337,760	\$1,385,916	\$2,006,289	\$1,577,896	\$1,683,254		
Revenues (1)	\$681,550	\$701,997	\$723,056	\$744,748	\$767,091	\$790,103	\$813,806	\$838,221	\$863,367	\$889,268		
Add back Depreciation	\$207,400	\$225,800	\$241,400	\$262,700	\$272,300	\$294,000	\$294,000	\$294,000	\$294,000	\$294,000		
Assessments	\$10,387	\$10,387	\$10,387	\$10,387	\$10,387	\$10,387	\$10,387	\$10,387	\$0	\$0		
Annual Balance	(\$558,228)	(\$887,899)	(\$893,197)	(\$395,901)	(\$422,987)	(\$243,270)	(\$267,723)	(\$863,682)	(\$420,529)	(\$499,986)		
Year End Cash Balance	\$215,890	<b style="color: red;">(\$672,009)	<b style="color: red;">(\$1,565,206)	<b style="color: red;">(\$1,961,107)	<b style="color: red;">(\$2,384,095)	<b style="color: red;">(\$2,627,364)	<b style="color: red;">(\$2,895,087)	<b style="color: red;">(\$3,758,769)	<b style="color: red;">(\$4,179,298)	<b style="color: red;">(\$4,679,284)		

Capital Improvement Plan, City of Orono

Sewer Fund						Table B-7				
						Current Balance: \$2,585,816				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Operation and Maintenance (1)	\$1,624,175	\$1,664,779	\$1,706,399	\$1,749,059	\$1,792,785	\$1,837,605	\$1,883,545	\$1,930,634	\$1,978,900	\$2,028,372
Debt Service	\$110,000	\$110,000	\$110,000	\$110,000	\$110,000	\$0	\$0	\$0	\$0	\$0
CIP Expenditures	\$804,068	\$1,096,720	\$875,169	\$853,924	\$792,644	\$797,119	\$705,210	\$684,650	\$704,506	\$724,942
Transfer to Equipment Fund for Sewer Equip	\$0	\$100,000	\$31,500	\$0	\$450,000	\$0	\$35,000	\$0	\$0	\$0
Total Expenses	\$2,538,243	\$2,971,499	\$2,723,068	\$2,712,983	\$3,145,429	\$2,634,724	\$2,623,755	\$2,615,283	\$2,683,406	\$2,753,314
Revenues (1)	\$1,427,010	\$1,484,090	\$1,543,454	\$1,605,192	\$1,669,400	\$1,736,176	\$1,805,623	\$1,877,848	\$1,952,962	\$2,031,080
Add back Depreciation	\$330,000	\$353,600	\$382,200	\$402,000	\$416,200	\$439,300	\$439,300	\$439,300	\$439,300	\$439,300
Assessments	\$35,349	\$35,349	\$30,368	\$26,934	\$24,902	\$17,569	\$17,569	\$10,939	\$2,000	\$0
Annual Balance	(\$745,884)	(\$1,098,460)	(\$767,046)	(\$678,856)	(\$1,034,927)	(\$441,679)	(\$361,263)	(\$287,197)	(\$289,144)	(\$282,933)
Year End Cash Balance	\$1,839,932	\$741,473	(\$25,573)	(\$704,429)	(\$1,739,357)	(\$2,181,036)	(\$2,542,299)	(\$2,829,495)	(\$3,118,640)	(\$3,401,573)

Storm Water Fund						Table B-8				
						Current Balance: \$1,763,437				
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Operation and Maintenance (1)	\$356,810	\$365,730	\$374,874	\$384,245	\$393,851	\$403,698	\$413,790	\$424,135	\$434,738	\$445,607
CIP Expenditures	\$708,375	\$858,844	\$564,777	\$506,353	\$577,294	\$591,726	\$606,519	\$621,682	\$637,224	\$653,155
Transfer to Equipment Fund for Storm Equip	\$0	\$100,000	\$0	\$75,000	\$0	\$0	\$12,000	\$600,000	\$0	\$0
Total Expenses	\$1,065,185	\$1,324,574	\$939,651	\$965,598	\$971,145	\$995,424	\$1,032,310	\$1,645,817	\$1,071,963	\$1,098,762
Revenues (1)	\$296,160	\$325,776	\$358,354	\$394,189	\$433,608	\$476,969	\$524,666	\$577,132	\$634,845	\$698,330
Add back depreciation	\$53,500	\$62,000	\$74,900	\$83,300	\$91,600	\$100,700	\$100,700	\$100,700	\$100,700	\$100,700
Annual Balance	(\$715,525)	(\$936,798)	(\$506,397)	(\$488,110)	(\$445,937)	(\$417,755)	(\$406,944)	(\$967,985)	(\$336,417)	(\$299,732)
Year End Cash Balance	\$1,047,912	\$111,114	(\$395,283)	(\$883,393)	(\$1,329,330)	(\$1,747,085)	(\$2,154,029)	(\$3,122,015)	(\$3,458,432)	(\$3,758,164)

Permanent Improvement Revolving (PIR) Fund						Table B-9				
						Current Balance: \$1,244,883		Amount Available for Police Purchases = \$268,823		
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Police Expenses	\$20,305	\$5,464	\$5,628	\$20,796	\$55,970	\$6,149	\$21,334	\$6,524	\$6,720	\$21,921
Total Expenses	\$20,305	\$5,464	\$5,628	\$20,796	\$55,970	\$6,149	\$21,334	\$6,524	\$6,720	\$21,921
Revenues	\$5,000	\$12,296	\$12,364	\$12,431	\$12,348	\$11,912	\$11,969	\$11,876	\$11,929	\$11,981
Annual Balance	(\$15,305)	\$6,832	\$6,737	(\$8,365)	(\$43,622)	\$5,762	(\$9,365)	\$5,352	\$5,210	(\$9,940)
Year End Cash Balance	\$1,229,579	\$1,236,411	\$1,243,147	\$1,234,782	\$1,191,160	\$1,196,922	\$1,187,557	\$1,192,909	\$1,198,119	\$1,188,179

NOTES:

- (1) Expenses and Revenues are based on the City's 2011 budget. For Planning purposes a 2.5% annual inflation factor has been used to project future costs.
- (2) Revenues are based on a 1.5% increased contribution starting in 2016 and adding a 1% interest earned on the previous year's balance.