

CAPITAL IMPROVEMENT FUNDS

The Capital Improvement funds account for financial resources to be used for the acquisition and construction of major capital facilities (other than those financed by Special Revenue Funds).

Capital Improvement Program Fund – Accounts for general government capital projects. The Town of Superior maintains a five-year capital improvement program which is updated annually. The initial year of the plan, which is also the next fiscal year for the Town, is adopted and approved by the Board of Trustees as a component of the annual budget.

The revenue sources include the 0.3% sales and use tax dedicated specifically for Town capital improvements as well as surplus fund transfers from the General Fund and fund balance.

Water Capital Improvement Fund - The Capital Improvement fund tracks water capital projects. Superior maintains a five-year capital improvement program which is updated annually. The initial year of the plan, which is also the next fiscal year for Superior, is adopted and approved by the Board of Directors as a component of the annual budget.

The primary revenue sources are system development fees, one-time water asset sales, transfer from operations, miscellaneous leases and net assets.

Waste Water Capital Improvement Fund - The Capital Improvement fund tracks waste water capital projects. Superior maintains a five-year capital improvement program which is updated annually. The initial year of the plan, which is also the next fiscal year for Superior, is adopted and approved by the Board of Directors as a component of the annual budget.

The primary revenue source is system development fees and transfer from operations.

Storm Water Capital Improvement Fund - The Capital Improvement fund tracks storm water capital projects. Superior maintains a five-year capital improvement program which is updated annually. The initial year of the plan, which is also the next fiscal year for Superior, is adopted and approved by the Board of Directors as a component of the annual budget.

The primary revenue source is system development fees, and transfer from operations.

2016 – 2020 Capital Improvement Program Budget Revenue (42)

| Acct # | Revenues | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------|---|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 31-1300 | Sales, Non SURA | \$189,000 | \$193,000 | \$197,000 | \$202,000 | \$207,000 |
| 31-1301 | Sales, SURA | 659,000 | 679,000 | 696,000 | 713,000 | 731,000 |
| 31-1310 | Vehicle Use | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 |
| 31-1320 | Building Use | 30,000 | 20,000 | 7,500 | 5,000 | 25,000 |
| 36-6100 | Interest Income | - | 1,000 | 2,000 | 5,000 | 22,000 |
| 36-6600 | Miscellaneous | 29,000 | 29,000 | 29,000 | 29,000 | 29,000 |
| 36-6810 | Bond/Loan Proceeds Town Hall Addition | 2,945,800 | - | - | - | - |
| 36-6820 | Bond/Loan Proceeds Eldorado K8 Park (From Open Space) | 2,000,000 | - | - | - | - |
| 36-6840 | Park Fee - Remington Development | 60,000 | 21,000 | - | - | - |
| 36-6910 | Transfer from General Fund | 1,550,000 | 2,080,000 | 2,220,000 | 1,980,000 | 1,615,000 |
| | Use of / (Addition to) Fund Balance | 543,500 | (79,494) | (167,614) | (998,774) | (642,218) |
| | | \$8,076,300 | \$3,013,506 | \$3,053,886 | \$2,005,226 | \$2,056,782 |

2016 – 2020 Capital Improvement Program Fund Budget Expense (42)

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---|--|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Public Works and Utilities (430) | | | | | | |
| 6598 | Street Project Soft Costs | \$80,000 | \$80,000 | \$80,000 | \$80,000 | \$80,000 |
| 6599 | Street Maintenance | 200,000 | 206,000 | 212,180 | 218,545 | 225,101 |
| 6601 | Street Replacement Program | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 |
| 6241 | Bridge Rail Painting | 40,000 | - | - | 40,000 | - |
| 6300 | Vehicle Replacement | 23,000 | 35,000 | - | 70,000 | 110,000 |
| 6611 | 88 th Street/ Shamrock Ped Crossing Flashing Beacons | 15,000 | - | - | - | - |
| 6594 | Left-Turn Flashing Yellow Signal Heads | - | - | 45,000 | - | - |
| 6652 | Traffic Signal Health Index Assessment | - | - | 35,000 | - | - |
| 6243 | Pavement Condition Index Update | - | - | - | 30,000 | - |
| 6421 | Building-PW/Parks Maint & Oper. | - | - | - | - | 125,000 |
| | | \$1,358,000 | \$1,321,000 | \$1,372,180 | \$1,438,545 | \$1,540,101 |

2016 – 2020 Capital Improvement Program Fund Budget Expense (42)

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|-------------------------------------|--|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Parks, Rec, Open Space (426) | | | | | | |
| 3480 | Pool Repairs & Improvements | \$190,000 | \$- | \$- | \$- | \$- |
| 6150 | Tennis Court Improvements | 5,000 | - | 5,000 | - | - |
| 6290 | Tree and Plant Enhancements | 44,000 | - | - | - | - |
| 6300 | Vehicle Replacement | 22,800 | 3,300 | - | - | - |
| 6491 | Purple Park Pavilion | 100,000 | - | - | - | - |
| 6521 | STC Parcel 1 & 2 Park Design | 200,000 | 200,000 | - | - | - |
| 6533 | Park Furniture Replacement | 22,500 | 22,500 | 10,000 | 10,000 | 10,000 |
| 6535 | Historical Museum and Grasso Park Improvements | 5,000 | - | - | - | - |
| 6538 | School Parcel Improvements | 2,944,000 | - | - | - | - |
| | School Parcel Improvements – Loan Payment | - | 1,015,025 | 1,015,025 | - | - |
| 6550 | Williams Turf Field Replacement | 250,000 | - | - | - | - |
| 6561 | Historic Fire Truck Restoration | 25,000 | - | - | - | - |
| 6520 | Shrub Bed Renovation | - | 50,000 | 50,000 | - | - |
| 6539 | Eldorado K-8 Field Improvements | - | - | 250,000 | - | - |
| 6537 | Coalton Corridor Enhancements | - | - | - | 190,000 | - |
| 6421 | Building-PW/Parks Maint. & Oper. | - | - | - | - | 125,000 |
| | | \$3,808,300 | \$1,290,825 | \$1,330,025 | \$200,000 | \$135,000 |

2016 – 2020 Capital Improvement Program Fund Budget Expense (42)

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|-------------------------------|-------------------------------------|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Other (490) | | | | | | |
| 6010 | Environmental “Green” Enhancements | \$5,000 | \$5,000 | \$5,000 | \$5,000 | \$5,000 |
| 6100 | Server Replacement | 15,000 | 15,000 | - | 15,000 | 15,000 |
| 6401 | Town Hall Expansion | 2,860,000 | - | - | - | - |
| 6422 | Bungalow Roof Replacement | 20,000 | - | - | - | - |
| 6543 | Wayfinding Signage | 10,000 | - | - | - | - |
| | Town Hall Expansion – Loan Payments | - | 346,681 | 346,681 | 346,681 | 346,681 |
| 6300 | Vehicle Replacement | - | 35,000 | - | - | - |
| 6890 | Monument Signs | - | - | - | - | 15,000 |
| | | \$2,910,000 | \$401,681 | \$351,681 | \$366,681 | \$381,681 |
| Total Capital Projects | | \$8,076,300 | \$3,013,506 | \$3,053,886 | \$2,005,226 | \$2,056,782 |

Street Project Soft Costs

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 80,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 80,000

2017 80,000

2018 80,000

2019 80,000

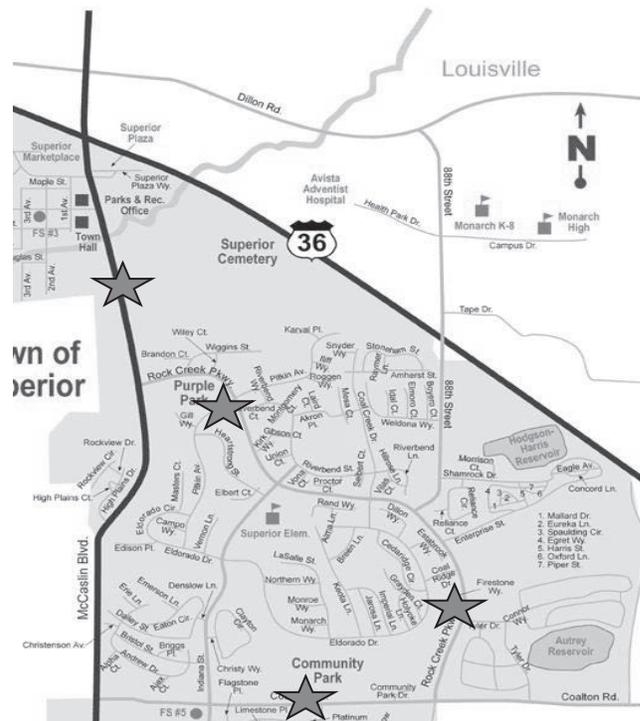
2020 80,000

\$ 80,000 **Total Cost**

Total Cost \$ 400,000

PROJECT DESCRIPTION

Soft costs for the street reconstruction program include surveying, geotechnical investigations, engineering design, construction observation, and materials testing. Costs are assumed to be 8% of total construction cost.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Street Maintenance

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 200,000

2017 206,000

2018 212,180

2019 218,545

2020 225,101

\$ 200,000 **Total Cost**

Total Cost \$ 1,061,826

PROJECT DESCRIPTION

Regular street maintenance tasks include crack sealing of asphalt, pot hole patching and repairs, and miscellaneous concrete replacement throughout Town. This work will primarily be performed by the Town's maintenance staff. Due to the lower level of funding for major street work, this budget will need to be larger to hold together failing streets such as McCaslin, Rock Creek Parkway, Coalton and 88th Street.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Street Replacement Program

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 1,000,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 1,000,000

2017 1,000,000

2018 1,000,000

2019 1,000,000

2020 1,000,000

\$ 1,000,000 **Total Cost**

Total Cost \$ 5,000,000

PROJECT DESCRIPTION

This project provides for ongoing street pavement management construction activities. This includes crack sealing, concrete and patch repair, seal coating, overlay, and reconstruction.

2016 - Rock Creek Parkway mill & overlay (Honey Creek to Coalton)

2017 - McCaslin (Marshall to Rock Creek Pkwy) mill & overlay

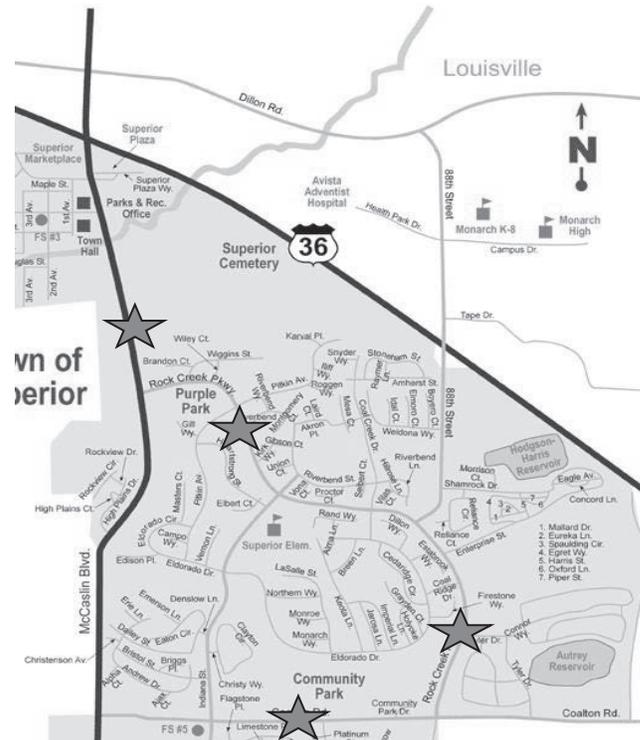
2018 - Rock Creek Circle mill & overlay, neighborhood (3) slurry seal

2019 - Coalton Road mill & overlay

2020 - Neighborhood slurry seal

ANNUAL OPERATING BUDGET IMPACT

\$ -



Bridge Rail Painting

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 40,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 40,000

2017 -

2018 -

2019 40,000

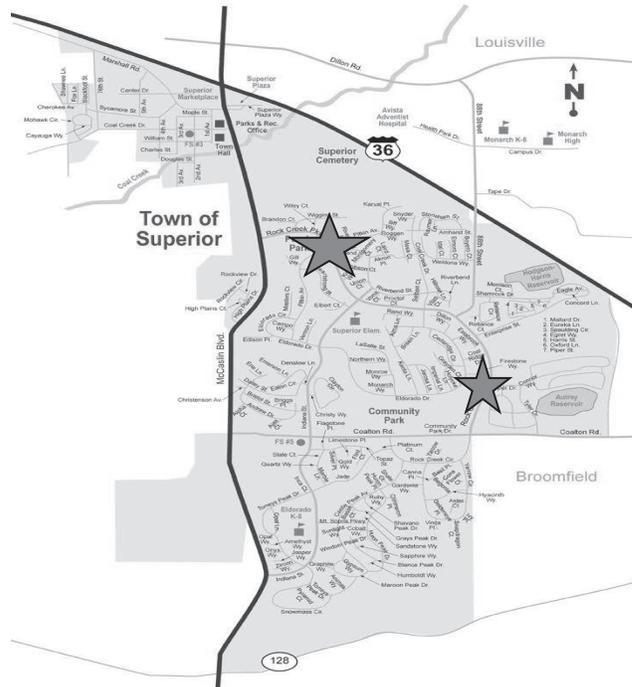
2020 -

\$ 40,000 **Total Cost**

Total Cost \$ 80,000

PROJECT DESCRIPTION

This project provides for funding to address Rock Creek Parkway bridge rail and deck painting.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Vehicle Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

| | |
|-----------|----------------------|
| \$ 23,000 | Governmental Capital |
| 11,500 | Water Capital |
| 6,900 | Sewer Capital |
| 4,600 | Storm Capital |
| <hr/> | |
| \$ 46,000 | Total Cost |

BUDGET BY YEAR

| | |
|-------------------|----------------|
| 2016 | \$ 46,000 |
| 2017 | 35,000 |
| 2018 | 200,000 |
| 2019 | 140,000 |
| 2020 | <u>220,000</u> |
| Total Cost | \$ 641,000 |

PROJECT DESCRIPTION

2016 - Replacement of 2008 pick-up truck (109) and purchase of a jack hammer attachment for the skidsteer (split between General, Water, Sewer and Storm)

2017 - Replacement of 2000 crack-sealing machine (General only)

2018 - Replacement of 2004 Sewer jet/vacuum truck (105) (Sewer only)

2019 - 2008 Loader/Backhoe replacement, replacement of 2010 pick-up truck (110) (split between General, Water, Sewer and Storm)

2020 - Replacement of 2012 pick-up truck (111) and 2005 roll-off truck (106) (split between General, Water, Sewer and Storm)

ANNUAL OPERATING BUDGET IMPACT

\$ 1,000

88th Street/Shamrock Pedestrian Crossing with Flashing Beacons

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 15,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 15,000

2017 -

2018 -

2019 -

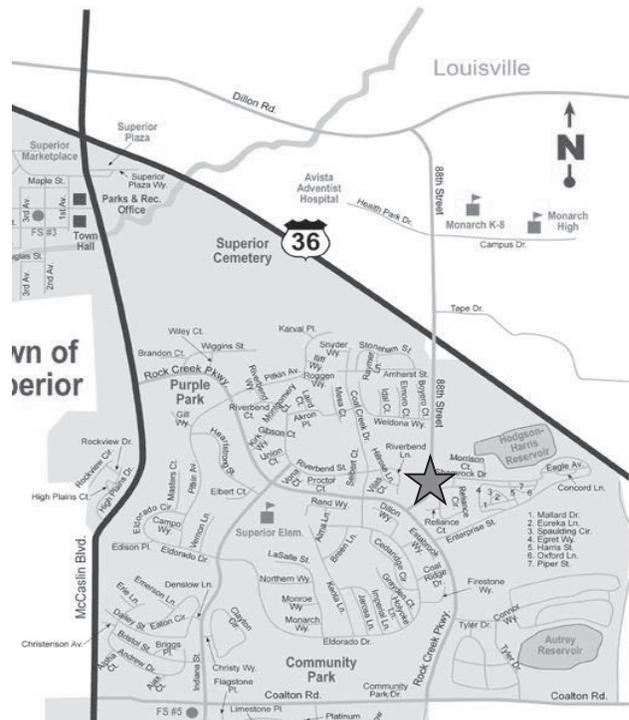
2020 -

\$ 15,000 **Total Cost**

Total Cost \$ 15,000

PROJECT DESCRIPTION

This project will install rectangular rapid flashing beacons on 88th Street near Shamrock Drive along with improvements for a pedestrian refuge.



ANNUAL OPERATING BUDGET IMPACT

\$ 500

Left-Turn Flashing Yellow Traffic Signal Heads

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 45,000 Governmental Capital

BUDGET BY YEAR

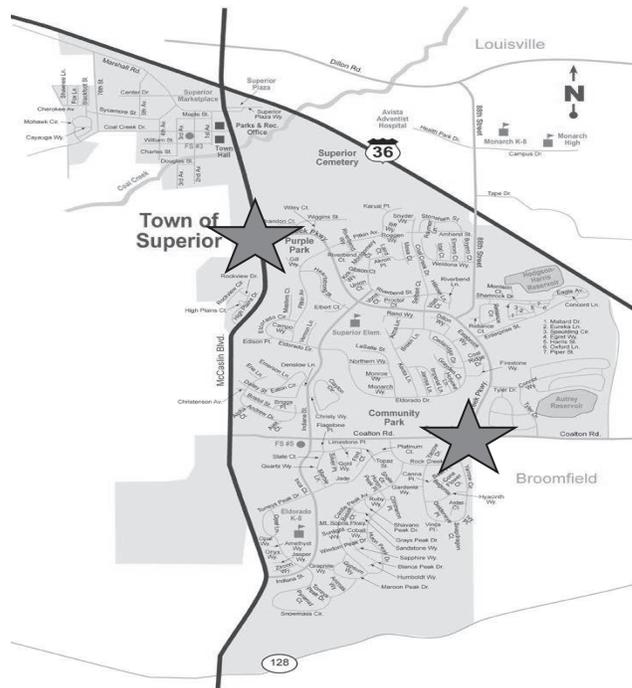
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | 45,000 |
| 2019 | - |
| 2020 | - |

\$ 45,000 **Total Cost**

Total Cost \$ 45,000

PROJECT DESCRIPTION

This project will install flashing yellow traffic signal heads at Rock Creek Parkway & McCaslin (2) and at Rock Creek Parkway and Coalton (4). These signal heads reduce driver confusion at the intersections for unprotected (green arrowed) left turn movements.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Traffic Signal Health Index Assessment

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 35,000 Governmental Capital

BUDGET BY YEAR

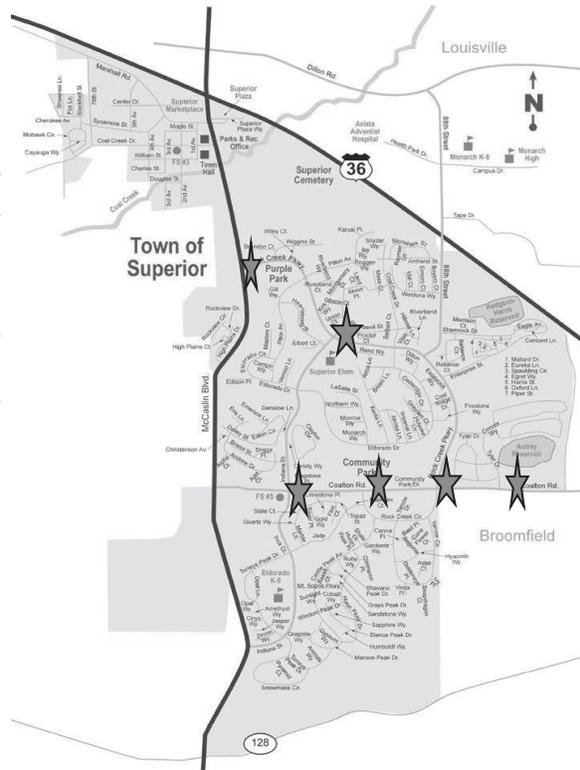
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | 35,000 |
| 2019 | - |
| 2020 | - |

Total Cost \$ 35,000

Total Cost \$ 35,000

PROJECT DESCRIPTION

This project provides for assessment of traffic signals to determine equipment condition and steel pole and mast arm conditions. Results of the assessment will be used to plan for timing and replacement of critical transportation infrastructure. This assessment should be completed every five years. This assessment will exclude the three poles that will be replaced with the DDI (US36 ramp north, US36 ramp south, Marshall/McCaslin) as well as the new McCaslin/High Plains and 88th Pedestrian signals.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Pavement Condition Index Update

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 30,000 Governmental Capital

BUDGET BY YEAR

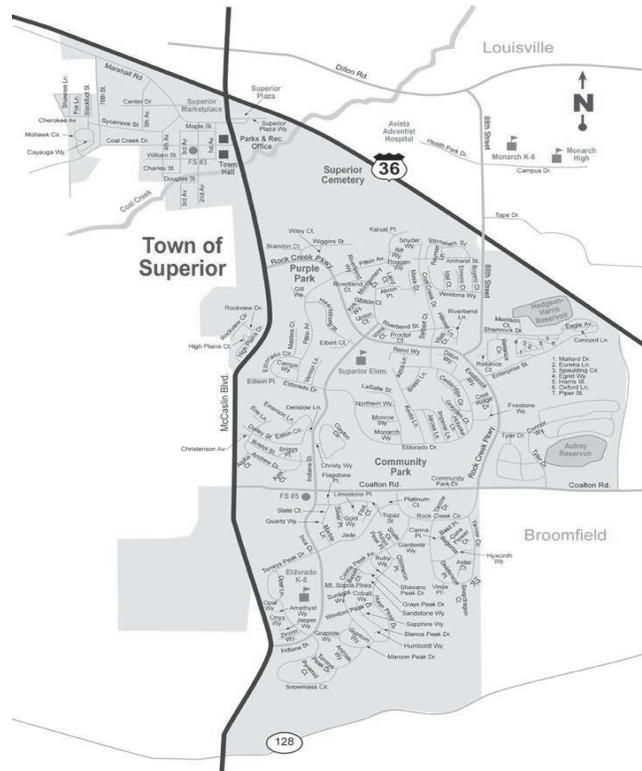
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 30,000 |
| 2020 | - |

Total Cost \$ 30,000

Total Cost \$ 30,000

PROJECT DESCRIPTION

This project provides for funding to re-evaluate the Pavement Condition Index for streets as part of the Pavement Management Program. This is an activity that is recommended to be completed every 3 - 4 years to track the deterioration of streets in efforts to project optimal treatment or rehabilitation.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Public Works & Parks Maintenance Operations Building

Infrastructure Project

FIRST YEAR FUNDING SOURCE

| | |
|------------|----------------------|
| \$ 250,000 | Governmental Capital |
| 125,000 | Water Capital |
| 75,000 | Sewer Capital |
| 50,000 | Storm Capital |
| <hr/> | |
| \$ 500,000 | Total Cost |

BUDGET BY YEAR

| | |
|-------------------|-------------------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | 500,000 |
| <hr/> | |
| Total Cost | \$ 500,000 |

PROJECT DESCRIPTION

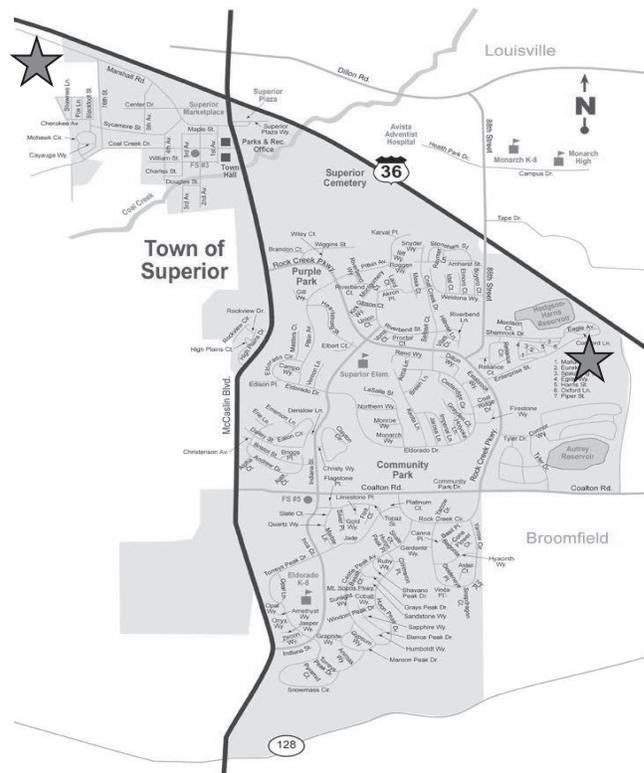
Construction of a combined Public Works & Parks maintenance operations building. The existing buildings are inadequate for the breath, scope and complexity of the current and future maintenance operations. This project may also include construction of a salt/sand storage area. Programming & Conceptual Design was completed in 2014 which estimated a need for a 25,000 SF building on a 2-acre site with construction costs of \$5,000,000.

2020 - Final design

2021 - Construction

ANNUAL OPERATING BUDGET IMPACT

\$ 72,500



Tennis Court Improvements

PROS Project

FIRST YEAR FUNDING SOURCE
 \$ 5,000 Governmental Capital

BUDGET BY YEAR
 2016 \$ 5,000

2017 -

2018 5,000

2019 -

2020 -

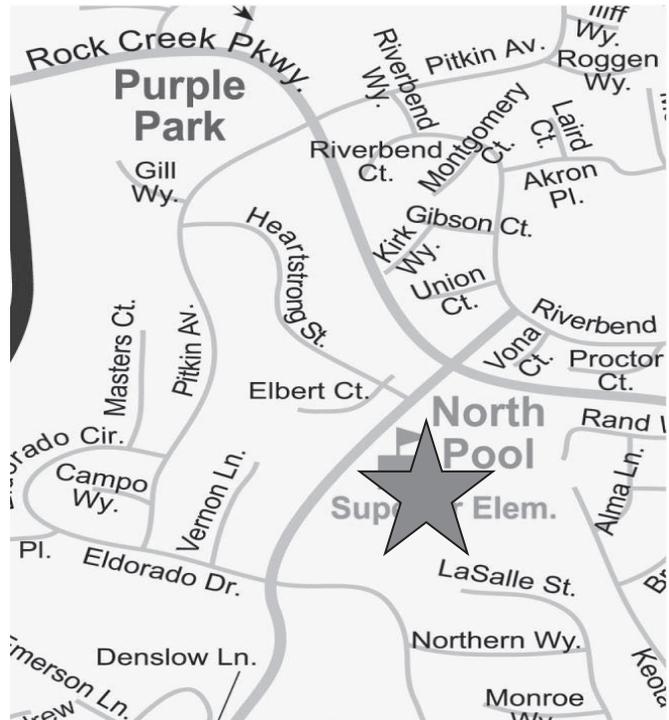
\$ 5,000 **Total Cost**

Total Cost \$ 10,000

PROJECT DESCRIPTION:

2016 - Replace fencing and windscreens.

2018 - Five-year resurface cycle for four tennis courts.



ANNUAL OPERATING BUDGET IMPACT
 \$ -

Purple Park Pavilion

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 100,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 100,000

2017 -

2018 -

2019 -

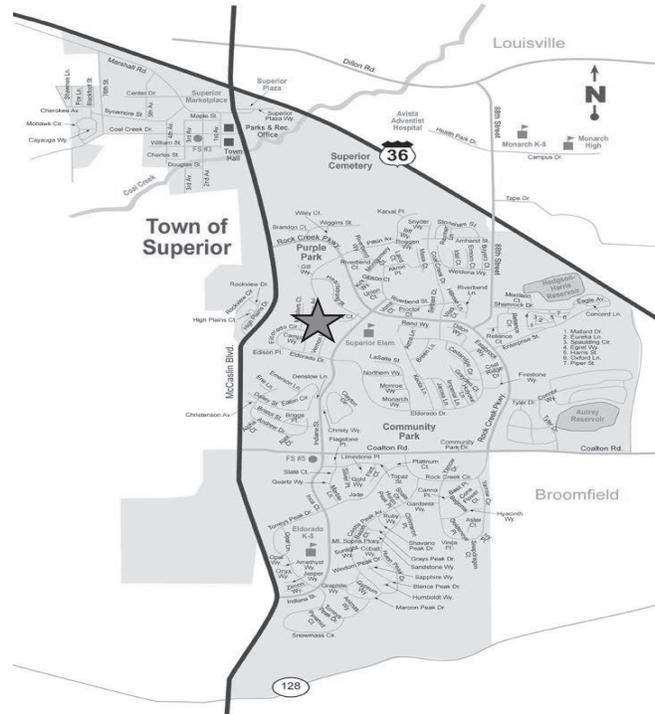
2020 -

\$ 100,000 **Total Cost**

Total Cost \$ 100,000

PROJECT DESCRIPTION

Construct a new, additional 30' x 30' pavilion in Purple Park which will be located east of Pitkin Avenue between the parking lot and sand volleyball court.



ANNUAL OPERATING BUDGET IMPACT

\$ 500

STC Parcel 1 and 2 Park Design

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 200,000

2017 200,000

2018 -

2019 -

2020 -

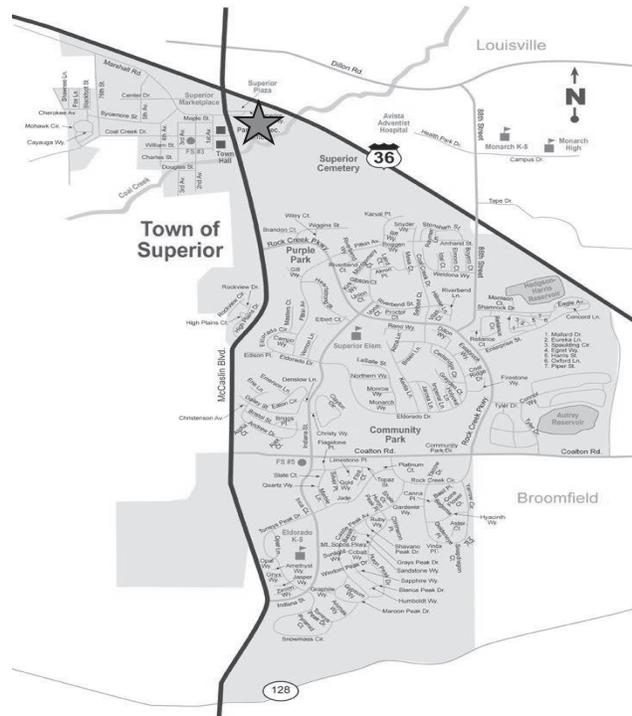
Total Cost \$ 200,000

Total Cost \$ 400,000

PROJECT DESCRIPTION

2016 - Preliminary design of STC parcels 1 and 2 based on concept designs approved by the Board in 2015.

2017 - Final construction design plans.



ANNUAL OPERATING BUDGET IMPACT

TBD

Historical Museum and Grasso Park Improvements

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 5,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 5,000

2017 -

2018 -

2019 -

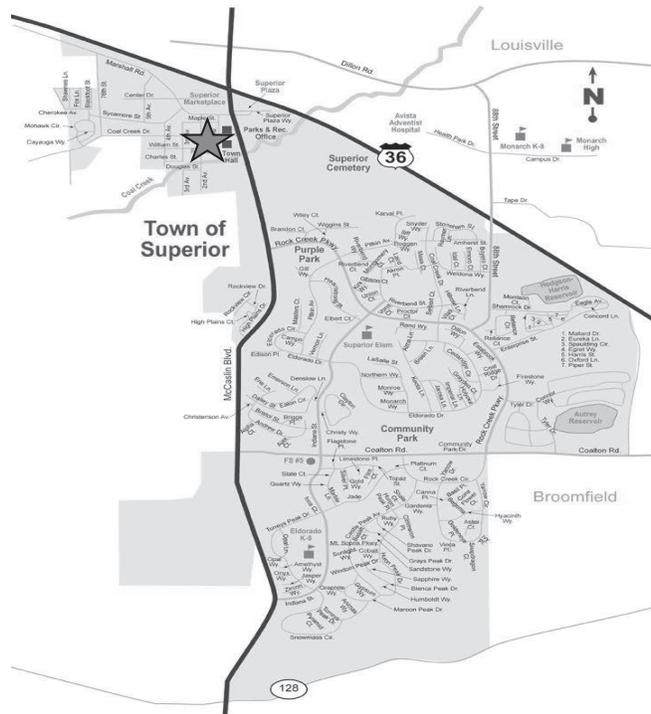
2020 -

Total Cost \$ 5,000

Total Cost \$ 5,000

PROJECT DESCRIPTION

Work with a contractor to adjust and/or replace Grasso windows and door frames; replaster and paint exterior of the Museum in damaged areas; adjust Museum doors and windows; sand and repaint back Museum deck.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Williams Turf Field Replacement

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 250,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 250,000

2017 -

2018 -

2019 -

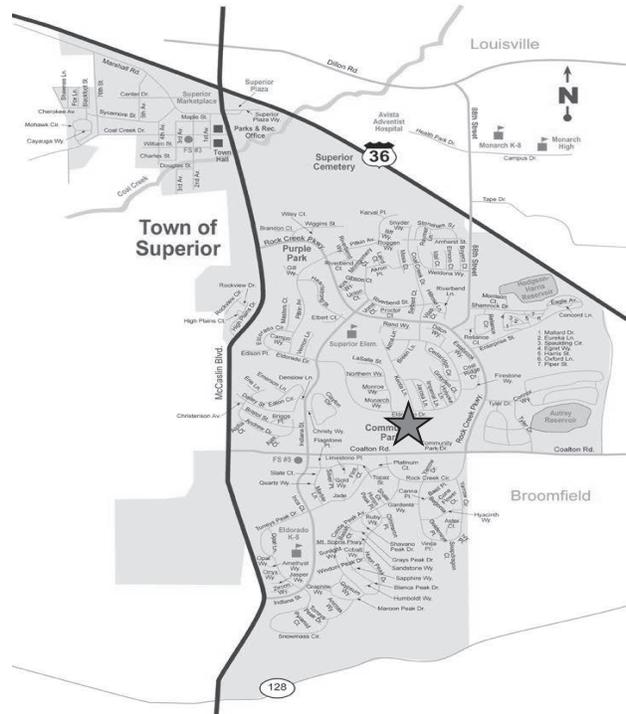
2020 -

\$ 250,000 **Total Cost**

Total Cost \$ 250,000

PROJECT DESCRIPTION

Full replacement of synthetic turf field surfacing and new crumb rubber foundation.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Historic Fire Truck Restoration

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 25,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 25,000

2017 -

2018 -

2019 -

2020 -

\$ 25,000 **Total Cost**

Total Cost \$ 25,000

PROJECT DESCRIPTION

Restore the 1942 historic fire truck to include new windows, lights, interior upholstery, exterior paint, etc.



ANNUAL OPERATING BUDGET IMPACT

\$ 200

Shrub Bed Renovation

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 50,000 Governmental Capital

BUDGET BY YEAR

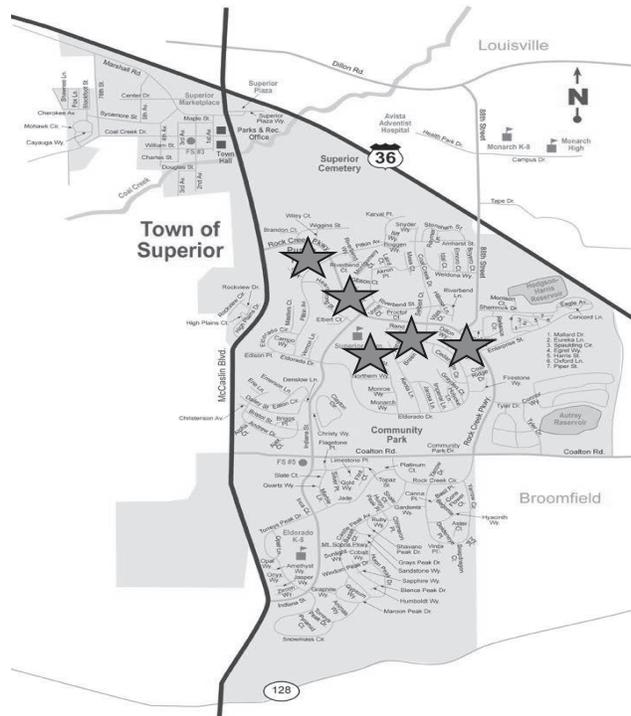
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | 50,000 |
| 2018 | 50,000 |
| 2019 | - |
| 2020 | - |

\$ 50,000 **Total Cost**

Total Cost \$ 100,000

PROJECT DESCRIPTION:

This is a 2 year phased project. The project is necessary due to the fact that much of the plant material is suffering. The original evergreen shrubs were installed at the inception of Rock Creek Ranch (medians) and have suffered for years due to sand/salt in the winter, compacted soils and vole activity. The Rock Creek Parkway medians will include replacement of the evergreen shrubs. The North Pool replacement would include evergreen shrubs along the south fence of the pool and the shrubs between the tennis courts.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Eldorado K-8 Field Improvements

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 250,000 Governmental Capital

BUDGET BY YEAR

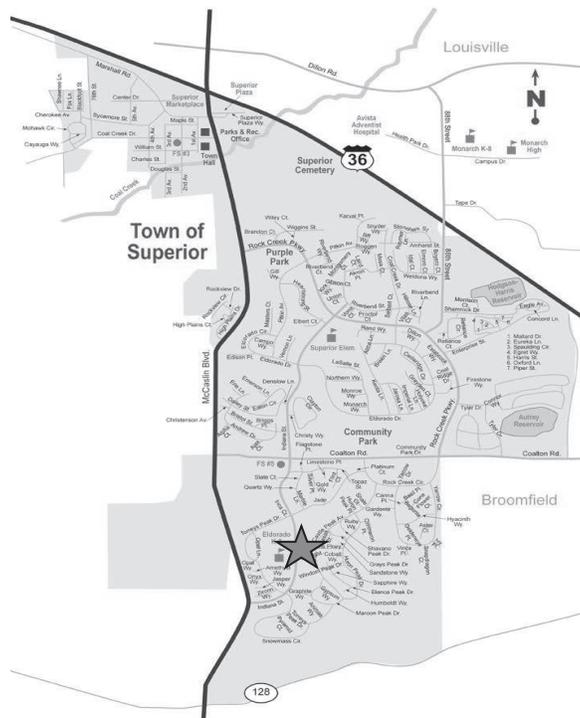
| | | |
|------|----|---------|
| 2016 | \$ | - |
| 2017 | | - |
| 2018 | | 250,000 |
| 2019 | | - |
| 2020 | | - |

\$ 250,000 **Total Cost**

Total Cost \$ 250,000

PROJECT DESCRIPTION

Funding to replace the natural grass in the multi-purpose field at Eldorado K-8 with synthetic turf as part of a joint-use agreement with Boulder Valley School District. Budget represents Superior's 50% share in this project. BVSD currently planning for 2018 bond funding for their share of this project. The field would be available to the community during non-school hours for programming.



ANNUAL OPERATING BUDGET

TBD

Coalton Corridor Enhancements

PROS Project

FIRST YEAR FUNDING SOURCE

\$ 190,000 Governmental Capital

BUDGET BY YEAR

2016 \$ -

2017 -

2018 -

2019 190,000

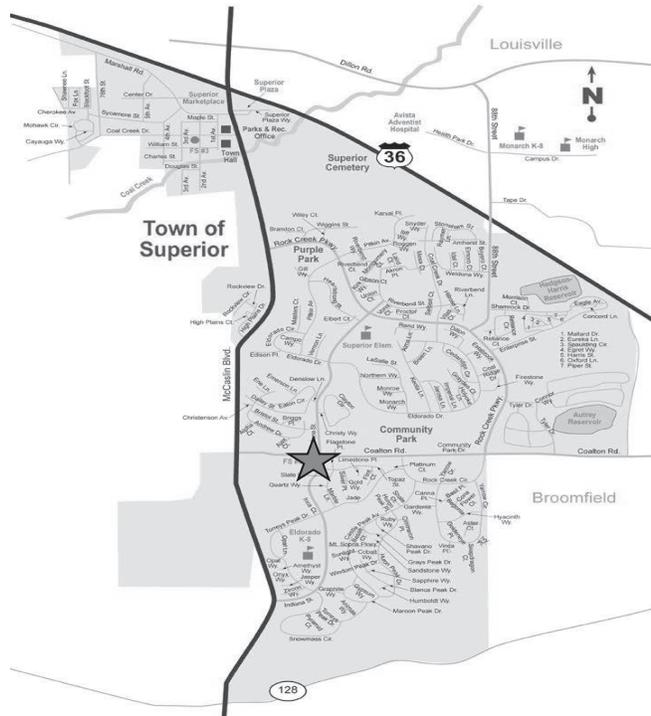
2020 -

\$ 190,000 **Total Cost**

Total Cost \$ 190,000

PROJECT DESCRIPTION

Most of the irrigation system in the corridor on the north and south sides of Coalton Road is designed to irrigate native type grasses using rotors with less uniform coverage. There are also two areas with lengths totaling 1,275 lineal feet in the corridor that lack any kind of irrigation system. This project consists of converting and adding irrigation to service a thirty foot wide swath of native grasses adjacent to both sides of the roadway to a turf type system, and also includes installing fescue sod in those areas. Additionally, irrigation and sod would be installed around Coalton pond.



ANNUAL OPERATING BUDGET IMPACT

\$ 7,500 (Beginning in 2019)

Environmental "Green" Enhancements

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 5,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 5,000

2017 5,000

2018 5,000

2019 5,000

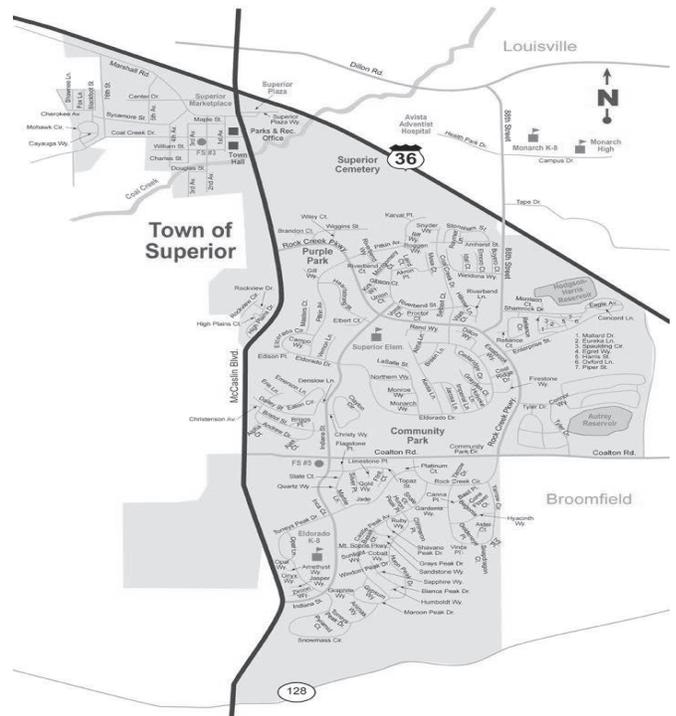
2020 5,000

Total Cost \$ 5,000

Total Cost \$ 25,000

PROJECT DESCRIPTION:

New environmental "green" enhancements within the Town. This includes possible projects such as: LED light conversion, HVAC upgrades, solar conversions.



ANNUAL OPERATING BUDGET IMPACT

TBD

Server Replacement

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 15,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 15,000

2017 15,000

2018 -

2019 15,000

2020 15,000

\$ 15,000 **Total Cost**

Total Cost \$ 60,000

PROJECT DESCRIPTION:

Servers are on a 5 year replacement schedule. Staff will continue to evaluate the "cloud" as a cost effective and secure alternative

2016 - Replace Caselle

2017 - Replace Laserfiche

2019 - Replace GIS

2020 - Replace Main Server

ANNUAL OPERATING BUDGET IMPACT

\$ -

Town Hall Expansion

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 2,860,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 2,860,000

2017 -

2018 -

2019 -

2020 -

\$ 2,860,000 **Total Cost**

Total Cost \$ 2,860,000

PROJECT DESCRIPTION:

In addition to the current Town Hall location, additional Town administrative staff/contractors are in four separate locations including (1) Bungalow (Building Inspection and Permitting), (2) 127 Coal Creek Drive (Parks Recreation and Open Space), (3) 405 Center Street Unit E (Public Works/Utilities) and (4) 405 Center Street Unit F (Boulder County Sheriff). This physical separation contributes to staff inefficiencies as well as less than ideal service deliveries to our citizens and customers. A 10,000 square foot addition to the west of Town Hall on Town owned property is proposed to resolve these issues and enhance efficiencies and effective service delivery. Design (\$260,000) and construct (\$2,600,000) in 2016. Funding through a loan.



ANNUAL OPERATING BUDGET IMPACT

\$ 14,000 Net budget impact for a full year

Bungalow Roof Replacement

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 20,000 Governmental Capital

BUDGET BY YEAR

2016 \$ 20,000

2017 -

2018 -

2019 -

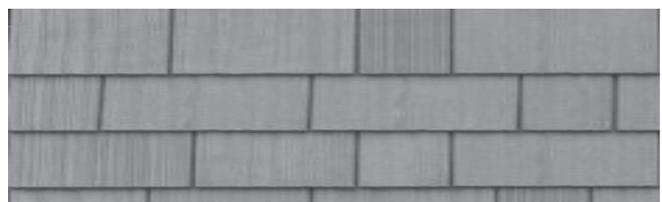
2020 -

\$ 20,000 **Total Cost**

Total Cost \$ 20,000

PROJECT DESCRIPTION:

The existing shake/wood shingle roof on the Bungalow is in need of replacement. Current roof is leaking, causing interior damage. Repair and replacement to include (1) removal/disposal of existing roofing materials, (2) installation of undersurface (plywood) and (3) installation of composite shake singles formulated from different wood tones creating a natural variance in color and enhancing the realistic appearance. Composite roofing tiles made to help reduce heating and cooling costs and are 100% Recyclable.



ANNUAL OPERATING BUDGET IMPACT

\$ (500)

Vehicle Replacement

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 35,000 Governmental Capital

BUDGET BY YEAR

| | | |
|-------------------|-----------|---------------|
| 2016 | \$ | - |
| 2017 | | 35,000 |
| 2018 | | - |
| 2019 | | - |
| 2020 | | - |
| Total Cost | \$ | 35,000 |

\$ 35,000 **Total Cost**

PROJECT DESCRIPTION:

Replacement of 2006 Ford Escape Hybrid (301)

ANNUAL OPERATING BUDGET IMPACT

\$ -

Monument Signs

Administrative Project

FIRST YEAR FUNDING SOURCE

\$ 15,000 Governmental Capital

BUDGET BY YEAR

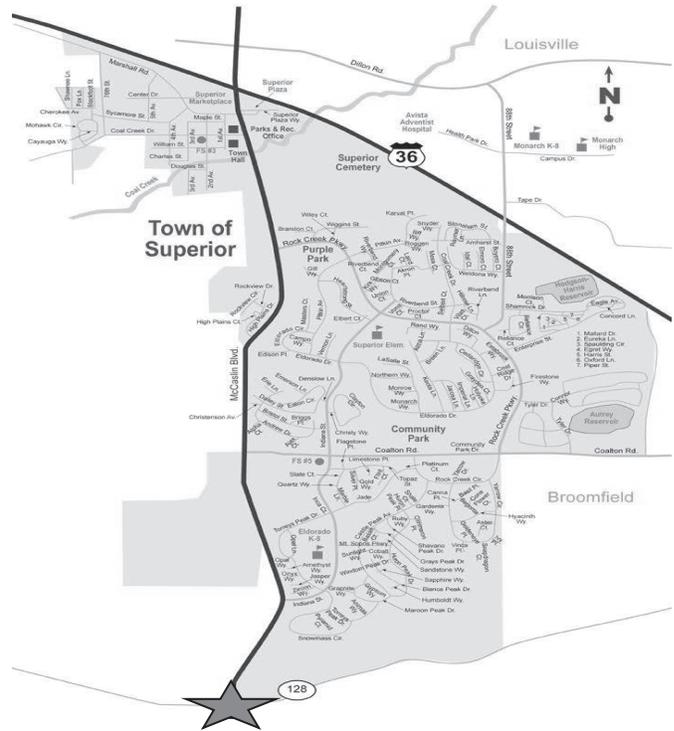
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | 15,000 |

\$ 15,000 **Total Cost**

Total Cost \$ 15,000

PROJECT DESCRIPTION:

The Town will install monument signs with the Town's logo at the entrances to the Town of Superior, specifically at S.H. 128 and McCaslin Blvd.



ANNUAL OPERATING BUDGET IMPACT

\$ 500 Maintenance

**2016 - 2020 Superior Metropolitan District No. 1
Water Capital Improvement Program Budget Revenue (50)**

| Acct # | Revenues | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------------|---------------------------------------|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 36-6100 | Interest Income | \$75,000 | \$100,000 | \$119,000 | \$24,000 | \$15,000 |
| 36-6341 | Water System Development Fees | 825,000 | 520,000 | 90,000 | 25,000 | 220,000 |
| 36-6344 | Irrigation Tap Fees | 60,000 | - | - | - | 25,000 |
| 36-6348 | Effluent Water Leases | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| 36-6953 | Transfer from Operations Service Fees | 474,500 | 252,165 | 354,346 | 471,855 | 533,797 |
| 36-6710 | Windy Gap Financing | - | - | 10,500,000 | - | - |
| | Use of / (Addition to) Net Assets | 55,000 | 35,935 | 8,187,872 | 784,000 | 306,714 |
| | | \$1,499,500 | \$918,100 | \$19,261,218 | \$1,314,855 | \$1,110,511 |

**2016 - 2020 Superior Metropolitan District No. 1
Water Capital Improvement Program Budget Expense (50-499)**

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|--------|---|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 6133 | 16" Diameter Pipeline Upsizing in McCaslin | 200,000 | - | - | - | - |
| 6135 | Reuse System Upgrades | 200,000 | 175,000 | 175,000 | - | - |
| 6155 | Water System Controls | 25,000 | 35,000 | - | - | - |
| 6157 | Irrigation Valve Installations | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 |
| 6167 | WTP Chemical Pump Replacement | 8,000 | - | - | - | - |
| 6300 | Vehicle Replacement | 11,500 | - | - | 35,000 | 55,000 |
| 6137 | Smart Meters | 25,000 | - | - | - | - |
| 6141 | WTP Concentration Time Study | 20,000 | - | - | - | - |
| 6142 | C/D Pump Station Pump Rebuild and Tank Demo/Removal | 32,500 | 32,500 | - | - | - |
| 6143 | Filter Effluent Pump Rebuild | 50,000 | - | - | - | - |
| 6145 | Fiberglass Tanks Piping Overhaul | 17,500 | - | - | - | - |
| 6159 | Fire Hydrant Replacement | 20,000 | 20,600 | 21,218 | 21,855 | 22,511 |
| 6780 | Windy Gap Firing | 800,000 | 550,000 | 19,000,000 | - | - |
| 6880 | Water Storage Tank Cleaning | 25,000 | - | - | - | - |
| 6144 | Sonic Solutions for Algae control @ Terminal and Pond 5 | - | 40,000 | - | - | - |
| 3340 | Filter Media Replacement | - | - | - | 55,000 | - |
| 6043 | Water Tank Fence Improvements | - | - | - | 40,000 | - |
| 6061 | Irrigation Storage Tank Floating Cover Replace | - | - | - | 200,000 | - |
| 6271 | FRICO Pipeline Maintenance | - | - | - | 55,000 | - |
| 6781 | Windy Gap Loan Repayment | - | - | - | 843,000 | 843,000 |
| 6421 | Building-PW/Parks Maint & Oper. | - | - | - | - | 125,000 |
| | | \$1,499,500 | \$918,100 | \$19,261,218 | \$1,314,855 | \$1,110,511 |

16" Diameter Potable Water Main Upsizing in McCaslin

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Water Capital

BUDGET BY YEAR

2016 \$ 200,000

2017 -

2018 -

2019 -

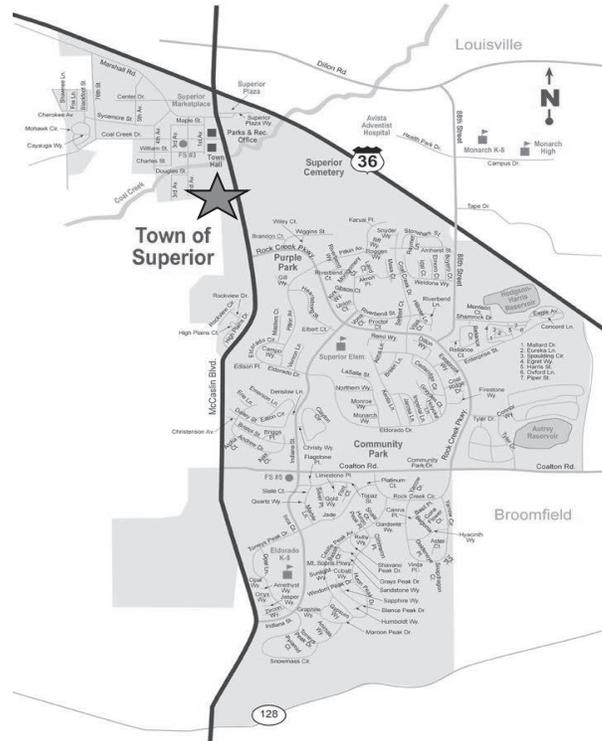
2020 -

\$ 200,000 **Total Cost**

Total Cost \$ 200,000

PROJECT DESCRIPTION

The current water main in McCaslin is an 8" diameter line. The Town Center demand requires the line to be increased to 12" (paid by the STC developer). However, there have been pressure problems in Original Town and the Superior Marketplace so increasing to 16" would remedy pressure issues. The \$200,000 would cover the costs for the developer to upsize the line from 12" to 16".



ANNUAL OPERATING BUDGET IMPACT

\$ -

Reuse System Upgrades

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Water Capital

BUDGET BY YEAR

2016 \$ 200,000

2017 175,000

2018 175,000

2019 -

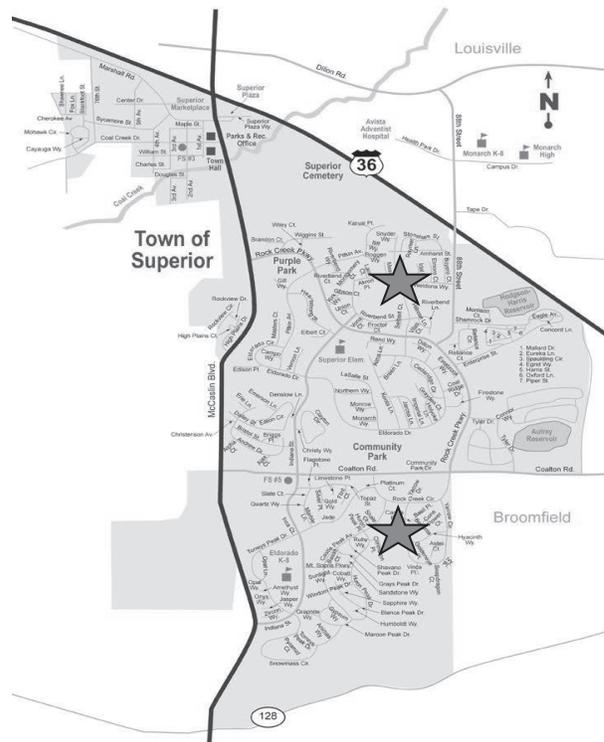
2020 -

\$ 200,000 **Total Cost**

Total Cost \$ 550,000

PROJECT DESCRIPTION

The project scope includes installing system wide modifications for the irrigation system based on the outcome of the 2015 Reuse/Irrigation Master Plan. **2016** - Upgrades include upsizing the two high zone pumps in the Pond #5 pump station; providing a booster pump station at the Ridge and a PRV vault in the high zone north of RC Pkwy east of McCaslin; providing new automated screens for the new high zone pumps and changing the inlet to come directly from the pond. These upgrades will allow the tank zone pumps to provide increased flow as they will no longer supply the high zone pumps. **2017 & 2018** - Mica Pump Station improvements.



ANNUAL OPERATING BUDGET IMPACT

\$ 4,000

Water System Controls

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 25,000 Water Capital

BUDGET BY YEAR

| | |
|------|-----------|
| 2016 | \$ 25,000 |
| 2017 | 35,000 |
| 2018 | - |
| 2019 | - |
| 2020 | - |

\$ 25,000 Total Cost

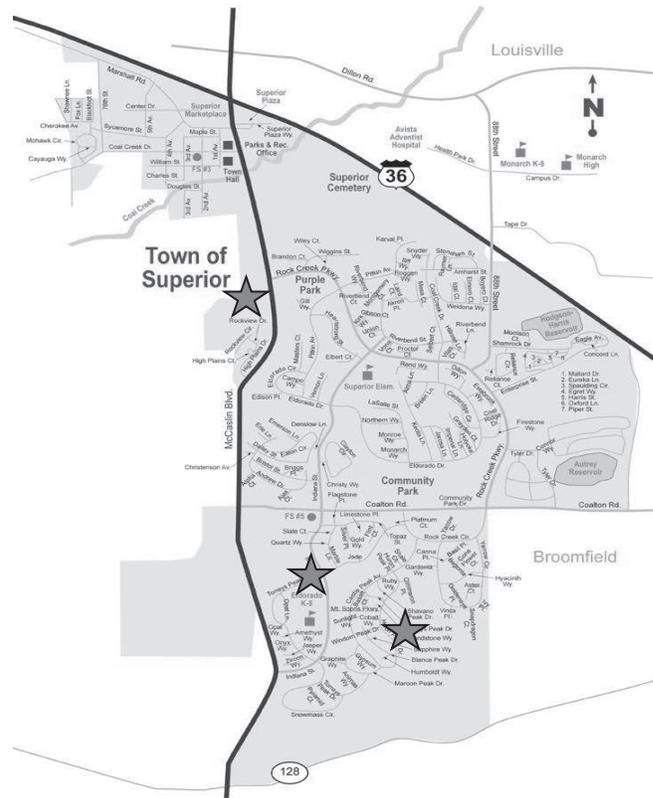
Total Cost \$ 60,000

PROJECT DESCRIPTION

This project provides upgrades to various components that are responsible for automatic operation of Town's water supply systems.

2016 - Replace high zone pump station PLC (\$25,000).

2017 - Rewrite high zone PLC (\$5,000); Replace high zone PLC (\$25,000); Add high zone PLC to SCADA (\$5,000)



ANNUAL OPERATING BUDGET IMPACT

\$ -

Irrigation Valve Installations

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 65,000 Water Capital

BUDGET BY YEAR

2016 \$ 65,000

2017 65,000

2018 65,000

2019 65,000

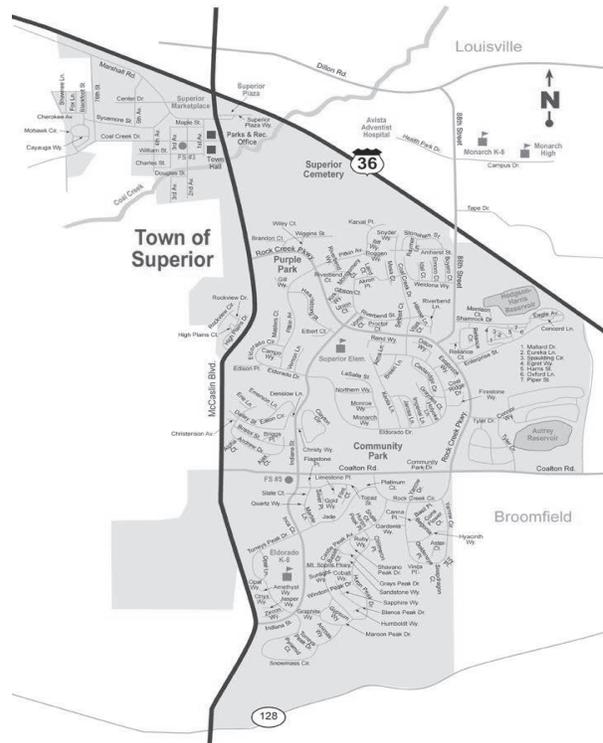
2020 65,000

\$ 65,000 **Total Cost**

Total Cost \$ 325,000

PROJECT DESCRIPTION

This project will provide approximately ten (2/year) isolation valves, blow offs and/or hydrants (1/year) for the reuse mainlines. Currently there is no way to repair mains without shutting down entire areas of the system which can take all day to drain.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WTP Chemical Pump Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 8,000 Water Capital

BUDGET BY YEAR

2016 \$ 8,000

2017 -

2018 -

2019 -

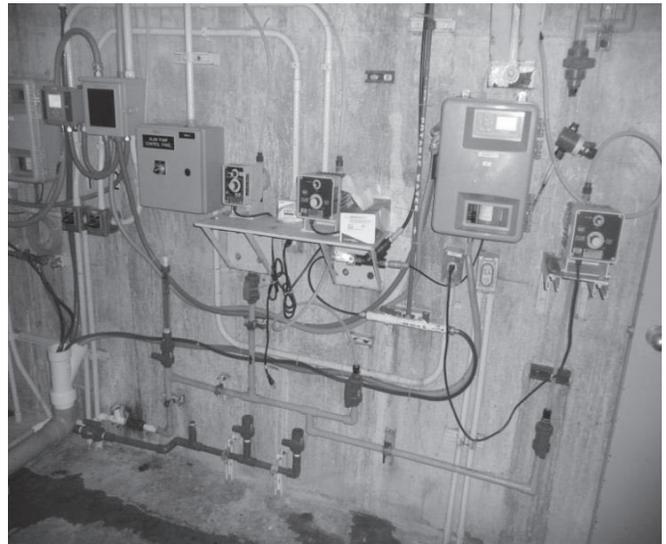
2020 -

\$ 8,000 **Total Cost**

Total Cost \$ 8,000

PROJECT DESCRIPTION

This project would replace 2 chemical meter pumps for the Chlorine.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Smart Meters

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 25,000 Water Capital

BUDGET BY YEAR

2016 \$ 25,000

2017

2018

2019

2020

\$ 25,000 Total Cost

Total Cost \$ 25,000

PROJECT DESCRIPTION

This project would install the transmitters for the new smart meters, a truck mounted computer for remote reading, and internal software upgrades.



ANNUAL OPERATING BUDGET IMPACT

\$ 500

WTP Concentration Time Study

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 20,000 Water Capital

BUDGET BY YEAR

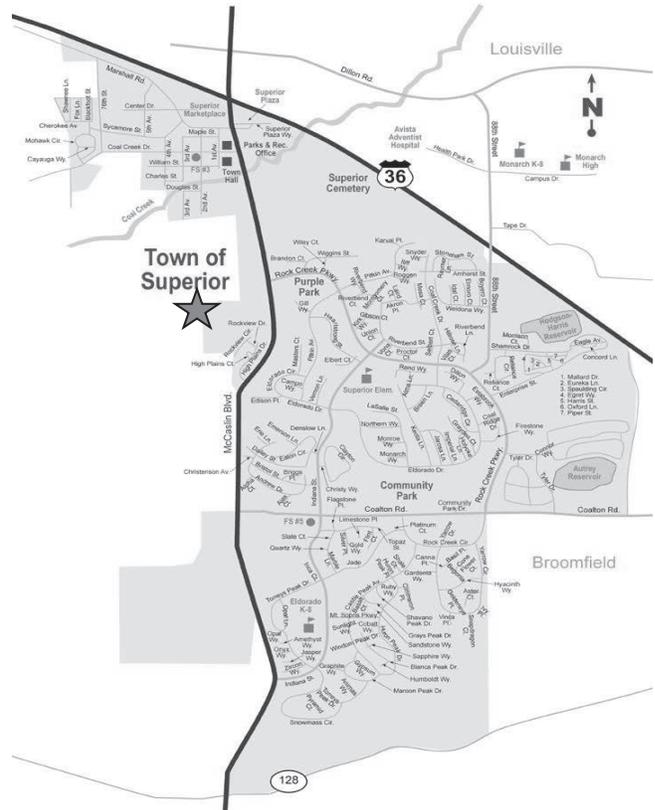
| | | |
|------|----|--------|
| 2016 | \$ | 20,000 |
| 2017 | | - |
| 2018 | | - |
| 2019 | | - |
| 2020 | | - |

\$ 20,000 Total Cost

Total Cost \$ 20,000

PROJECT DESCRIPTION

New regulations are requiring evaluation of the chlorine concentration time (CT) calculation for treated water before it reaches the first user. A CT study is a formal determination of the disinfectant concentrations and the effective contact time provided by a given treatment plant.



ANNUAL OPERATING BUDGET IMPACT

\$ -

C/D Pump Station Pump Rebuild & Tank Demo/Removal

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 32,500 Water Capital

BUDGET BY YEAR

2016 \$ 32,500

2017 32,500

2018 -

2019 -

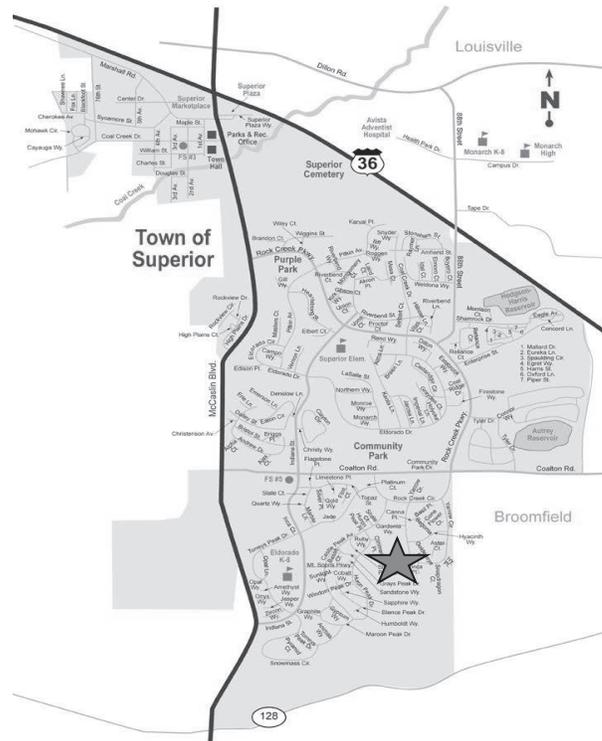
2020 -

\$ 32,500 Total Cost

Total Cost \$ 65,000

PROJECT DESCRIPTION

This project will overhaul and rebuild the existing pumps and removal of unused tankage in the C/D pump station which provides potable water for Town.



ANNUAL OPERATING BUDGET IMPACT

\$ 1,000

Filter Effluent Pump Rebuild

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 50,000 Water Capital

BUDGET BY YEAR

2016 \$ 50,000

2017 -

2018 -

2019 -

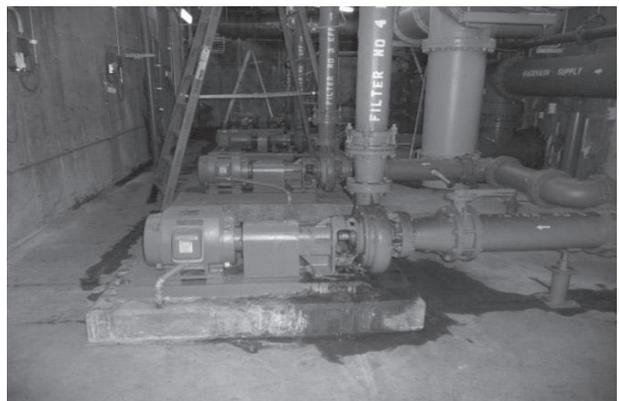
2020 -

\$ 50,000 **Total Cost**

Total Cost \$ 50,000

PROJECT DESCRIPTION

Rebuild the effluent pumps that supply the filtered water to the storage tank at the WTP.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Fiberglass Tanks Piping Overhaul

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 17,500 Water Capital

BUDGET BY YEAR

2016 \$ 17,500

2017 -

2018 -

2019 -

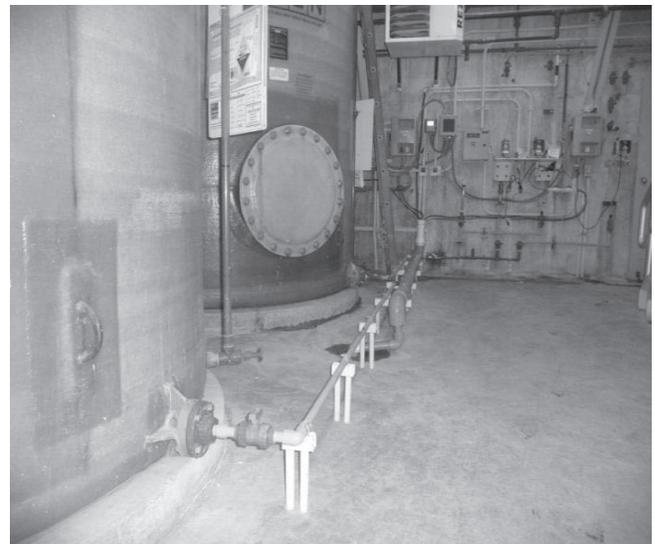
2020 -

\$ 17,500 **Total Cost**

Total Cost \$ 17,500

PROJECT DESCRIPTION

This project consists of moving the piping coming from these tanks out of the way so that the piping is not broken from someone tripping on it. Also the fittings coming off of the tank are PVC, and should be stainless steel then transition back to PVC. Earlier this year the PVC fittings broke coming directly out of the tank and the isolation valve was on the section that broke off. Operators had to scramble to plug the pipe until we were able to fix the broken fitting.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Fire Hydrant Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 20,000 Water Capital

BUDGET BY YEAR

2016 \$ 20,000

2017 20,600

2018 21,218

2019 21,855

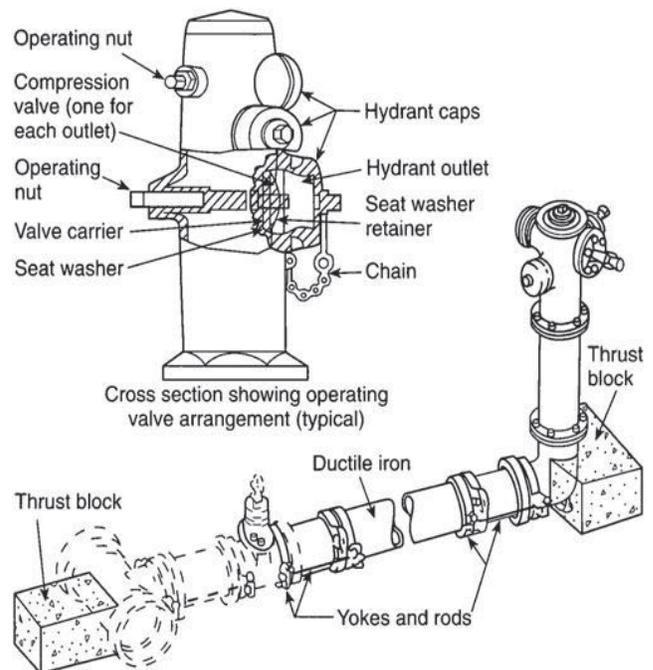
2020 22,511

\$ 20,000 **Total Cost**

Total Cost \$ 106,184

PROJECT DESCRIPTION

This project would replacement old and damaged hydrants.



ANNUAL OPERATING BUDGET IMPACT

\$ (500)

Windy Gap Firming

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 800,000 Water Capital

BUDGET BY YEAR

2016 \$ 800,000

2017 550,000

2018 19,000,000

2019 -

2020 -

\$ 800,000 **Total Cost**

Total Cost \$ 20,350,000

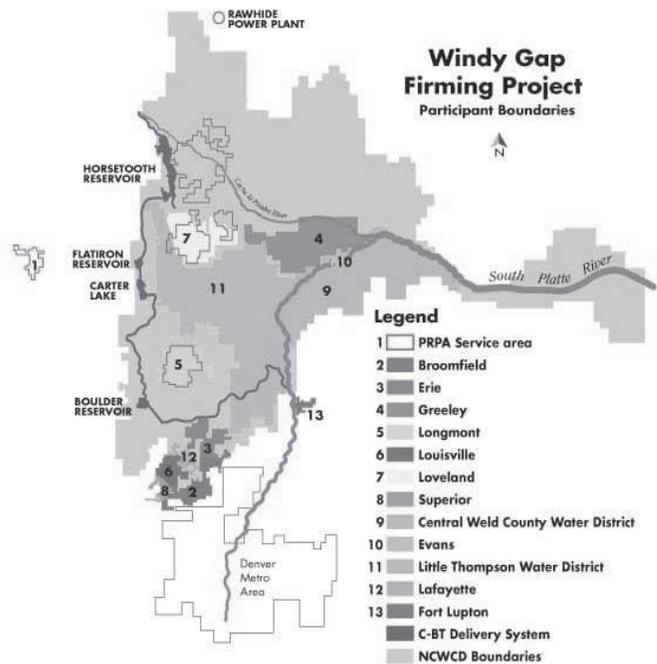
PROJECT DESCRIPTION

Superior Metropolitan District No. 1's (SMD1) contribution to the Windy Gap Firming Project based upon the number of shares owned by SMD1. Windy Gap diverts water from the Colorado River to the Front Range via the Federal Colorado-Big Thompson Project on a space available basis. The Windy Gap Firming Project was proposed to store Windy Gap water to ensure reliable future deliveries. The project will provide 4,500 ac-ft. of storage dedicated to the Town.

2016 - Design and Mitigation

2017 - Design

2018 - Construction



ANNUAL OPERATING BUDGET IMPACT

\$ 34,000 Beginning in 2020

Water Storage Tank Cleaning

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 25,000 Water Capital

BUDGET BY YEAR

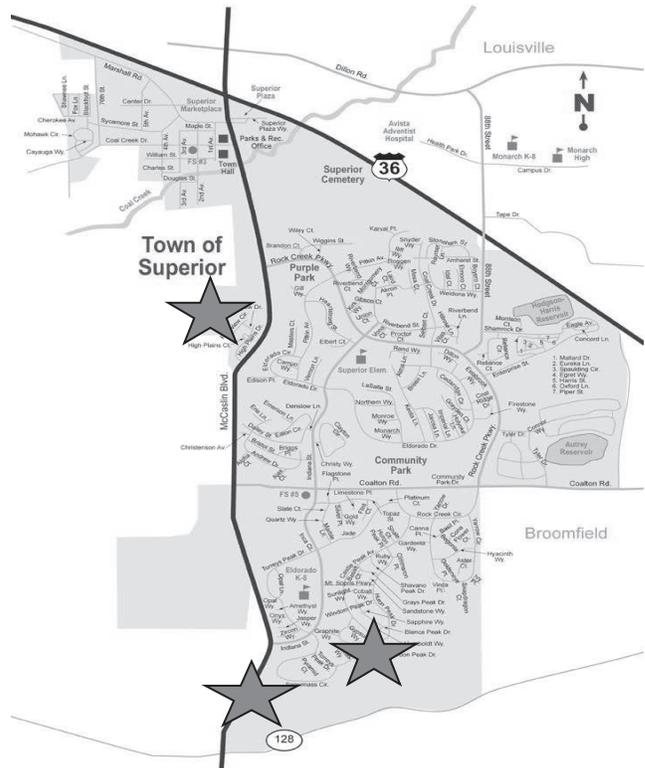
| | |
|------|-----------|
| 2016 | \$ 25,000 |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | - |

\$ 25,000 Total Cost

Total Cost \$ 25,000

PROJECT DESCRIPTION

This project provides for cleaning all the potable water storage tanks including; (1) 0.5 million-gallon (MG) high zone tank, (2) the 1.5 MG low zone tank, and (3) the 1.4 MG tank at the Water Treatment Plant.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Sonic Solutions for Algae control @ Terminal and Pond 5

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 40,000 Water Capital

BUDGET BY YEAR

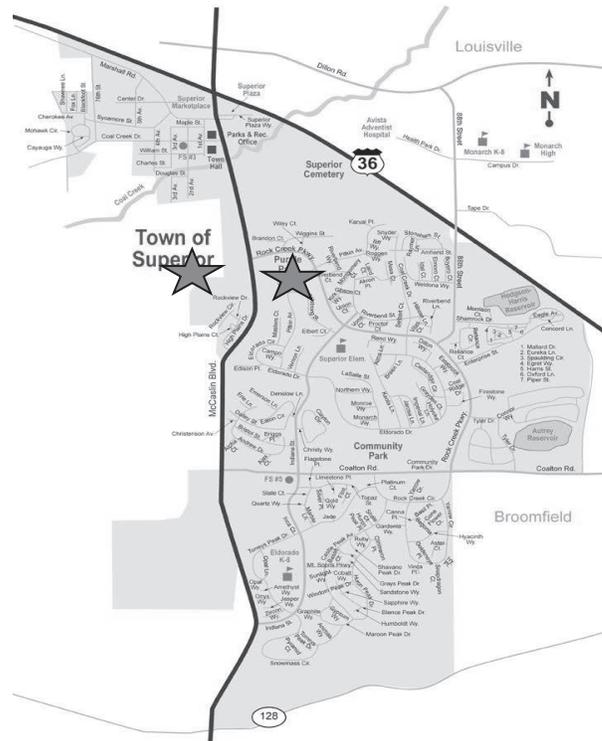
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | 40,000 |
| 2018 | - |
| 2019 | - |
| 2020 | - |

\$ 40,000 Total Cost

Total Cost \$ 40,000

PROJECT DESCRIPTION

This project would install sonic devices (in lieu of chemicals) at Terminal Reservoir (Water Treatment Plant) and Pond 5 (Purple Park) to prevent algae growth. Algae contributes to odor and taste problems and can be difficult to remove once in the distribution system, whether reuse or potable water.



ANNUAL OPERATING BUDGET IMPACT

\$ 1,000

Filter Media Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 55,000 Water Capital

\$ 55,000 **Total Cost**

BUDGET BY YEAR

| | |
|-------------------|------------------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 55,000 |
| 2020 | - |
| Total Cost | \$ 55,000 |

PROJECT DESCRIPTION

This project will provide for replacement of filter media in the finished potable water filters at the Water Treatment Plant. The project will also include sandblasting and repainting of the internal piping and troughs. Replace media in Filter #4 per the recommended 5-7 year replacement schedule. Last time done was in 2011.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Water Tank Fence Improvements

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 40,000 Water Capital

BUDGET BY YEAR

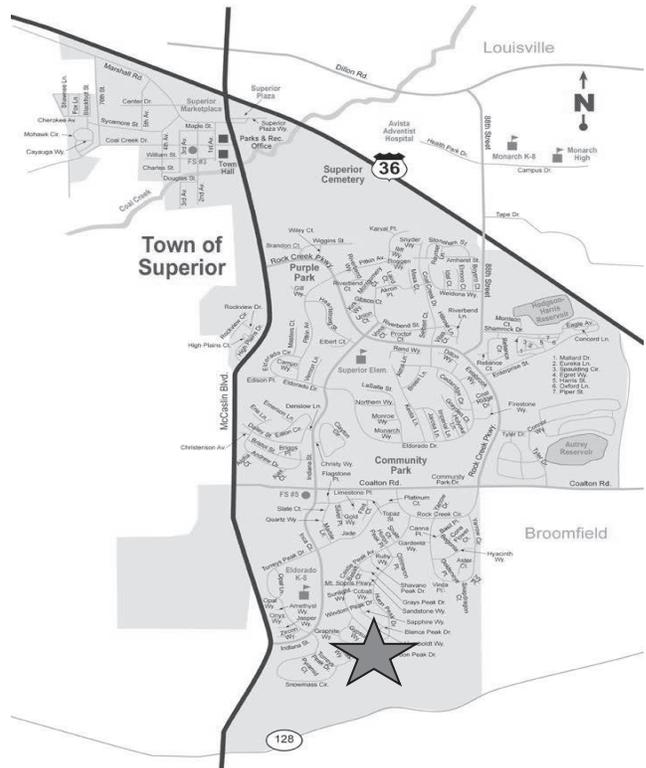
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 40,000 |
| 2020 | - |

\$ 40,000 Total Cost

Total Cost \$ 40,000

PROJECT DESCRIPTION

This project provides for demolition of the existing fence and the design and construction of a new fence around the 1.4 million gallon (MG) covered irrigation system storage tank. It is proposed to install a new heavy duty fence to withstand future damage due to wind and vandalism as well as improved security. Estimate is for 800 feet of 8 foot high hurricane fence, vinyl coated at \$45/ft. (\$36,000) plus \$4,000 for removing and disposing of existing fence.



ANNUAL OPERATING BUDGET IMPACT

\$ (2,000)

Irrigation Storage Tank Floating Cover Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Water Capital

BUDGET BY YEAR

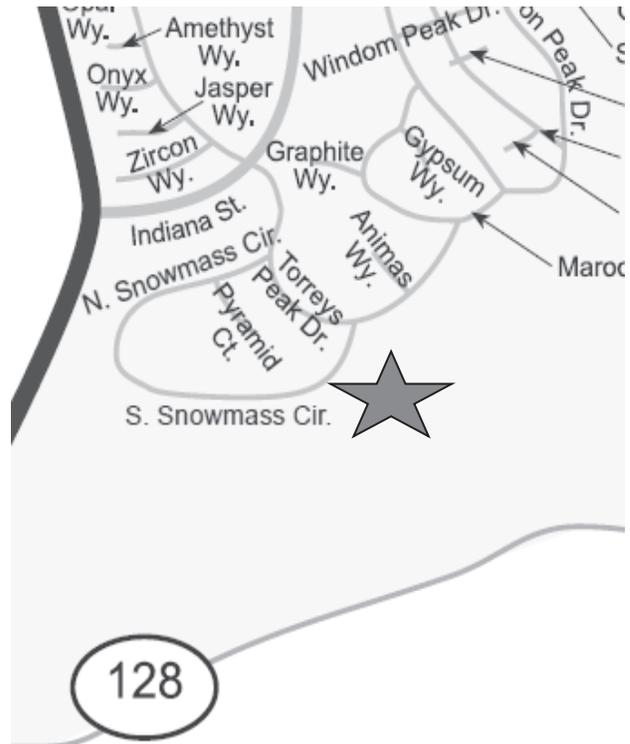
| | | |
|------|----|---------|
| 2016 | \$ | - |
| 2017 | | - |
| 2018 | | - |
| 2019 | | 200,000 |
| 2020 | | - |

\$ 200,000 **Total Cost**

Total Cost \$ 200,000

PROJECT DESCRIPTION

This project provides for replacement of the existing floating cover on the reuse system storage tank. The existing cover is aging and approaching the end of its lifecycle. The cover has been slated for replacement for years. As an alternative, staff will evaluate whether the existing soil and plant growth on the cover can be removed without damage to the structure.



ANNUAL OPERATING BUDGET IMPACT

\$ -

FRICO Pipeline Maintenance

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 55,000 Water Capital

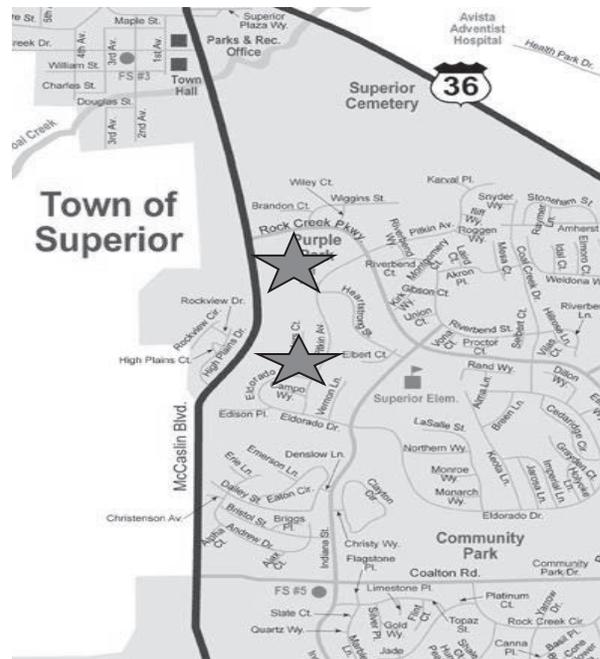
BUDGET BY YEAR

| | |
|-------------------|------------------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 55,000 |
| 2020 | - |
| Total Cost | \$ 55,000 |

\$ 55,000 **Total Cost**

PROJECT DESCRIPTION

Scope includes grout injection to mitigate leaking joints in the Community Ditch pipeline as identified in the Farms Reservoir and Irrigation Company (FRICO) ditch report. Also, replace line-valves which have failed.



ANNUAL OPERATING BUDGET IMPACT

\$ -

**2016 - 2020 Superior Metropolitan District No. 1
Waste Water Capital Improvement Program Budget Revenue (51)**

| Acct # | Revenues | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------------|-------------------------------------|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 36-6100 | Interest Income | \$10,000 | \$15,000 | \$19,000 | \$23,000 | \$21,000 |
| 36-6341 | Waste Water System Development Fees | 150,000 | 90,000 | 50,000 | 75,000 | 260,000 |
| 36-6953 | Transfer from Operation User Fees | 636,900 | 791,000 | 400,000 | 396,000 | 703,000 |
| | Use of / (Addition to) Net Assets | (160,000) | (105,000) | (69,000) | 317,000 | 741,000 |
| | | \$636,900 | \$791,000 | \$400,000 | \$811,000 | \$1,725,000 |

**2016 – 2020 Superior Metropolitan District No. 1
Waste Water Capital Improvement Program Budget Expense (51-499)**

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------------|--|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 6081 | Town Wide Collection System Video Assessment | \$32,000 | \$- | \$- | \$- | \$- |
| 6191 | WWTP Biomag Pilot Study | 50,000 | - | - | - | - |
| 6192 | WWTP Clarifier Sludge Pump Check Valve | 7,000 | - | - | - | - |
| 6234 | WWTP Submersible Mixer for Aeration Basins | 66,000 | - | - | - | - |
| 6273 | WWTP PLC Replacement | 30,000 | - | - | - | - |
| 6279 | WWTP Process Pump Maintenance | 68,000 | 141,000 | - | - | - |
| 6281 | WWTP Controls Equipment Upgrades | 15,000 | - | - | - | - |
| 6282 | WWTP Equalization Pond Liner Repair | 200,000 | 550,000 | - | - | - |
| 6284 | Sanitary Sewer Manhole and Line Rehabilitation | 100,000 | 100,000 | 80,000 | 80,000 | 80,000 |
| 6286 | WWTP Chemical Pump Replacement | 12,000 | - | - | - | - |
| 6288 | WWTP Secondary Clarifiers Upgrades | 50,000 | - | - | - | - |
| 6300 | Vehicle Replacement | 6,900 | - | 200,000 | 21,000 | 33,000 |
| 6235 | WWTP Site Improvements (Drainage) | - | - | 20,000 | 130,000 | - |
| 6236 | WWTP Miscellaneous Improvements | - | - | 100,000 | 100,000 | 100,000 |
| | WWTP Buried Decant Line | - | - | - | 30,000 | - |
| | WWTP Sodium Bicarbonate Piping and Tank Overhaul | - | - | - | 35,000 | - |
| | WWTP Aeration Basin Expansion & Modification | - | - | - | 415,000 | 415,000 |
| 6421 | Building-PW/Parks Maint. & Oper. | - | - | - | - | 75,000 |
| | WWTP New Secondary Clarifier Replacement | - | - | - | - | 532,000 |
| | WWTP Filter 1 Media and Underdrain Replacement | - | - | - | - | 380,000 |
| | WWTP Sludge Dewatering Improvements | - | - | - | - | 110,000 |
| | | \$636,900 | \$791,000 | \$400,000 | \$811,000 | \$1,725,000 |

Town Wide Collection System Video Assessment

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 32,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 32,000

2017 -

2018 -

2019 -

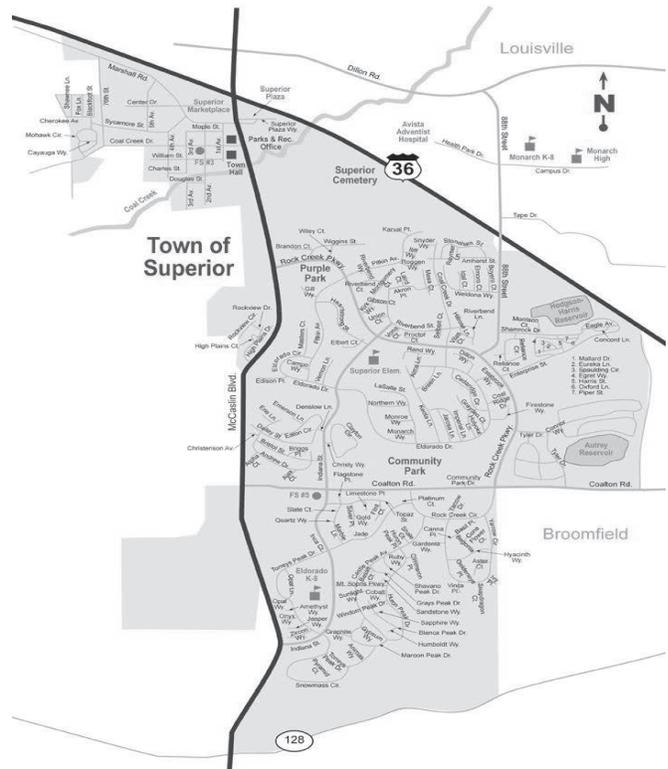
2020 -

\$ 32,000 **Total Cost**

Total Cost \$ 32,000

PROJECT DESCRIPTION

This project provides for video assessment of the existing sewer collection system to identify conditions of mainline pipe and service connections. Previous video records are from 2001. Video assessment allows for identification of deformed or failing pipe, root intrusions, groundwater infiltration, and other miscellaneous system problems that may need to be addressed via operational maintenance or future capital improvement projects. This is a six-year project with the entire system to be complete by 2016.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Biomag Pilot Study

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 50,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 50,000

2017 -

2018 -

2019 -

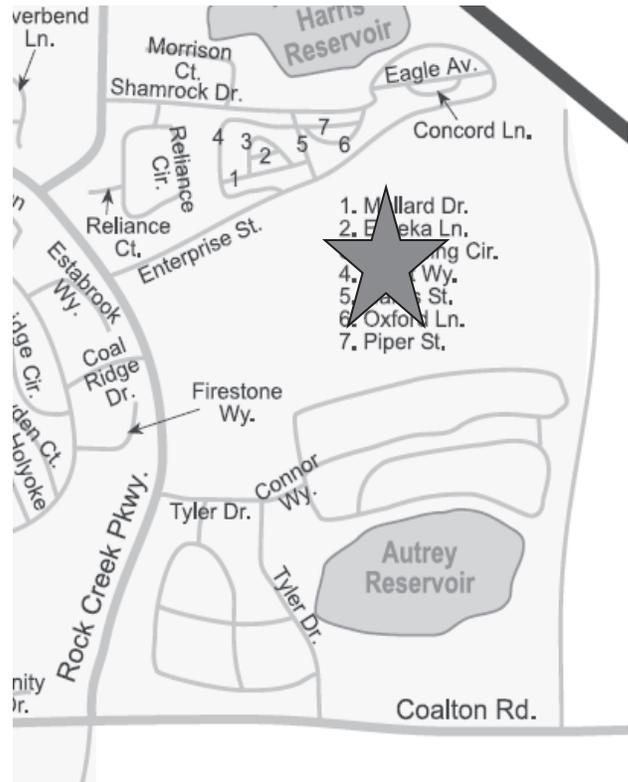
2020 -

\$ 50,000 **Total Cost**

Total Cost \$ 50,000

PROJECT DESCRIPTION

This project will evaluate a new technology called "BioMag" for expanding the capacity of our plant without adding additional tankage for the secondary process.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Clarifloculator Sludge Pump Check Valve Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 7,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 7,000

2017 -

2018 -

2019 -

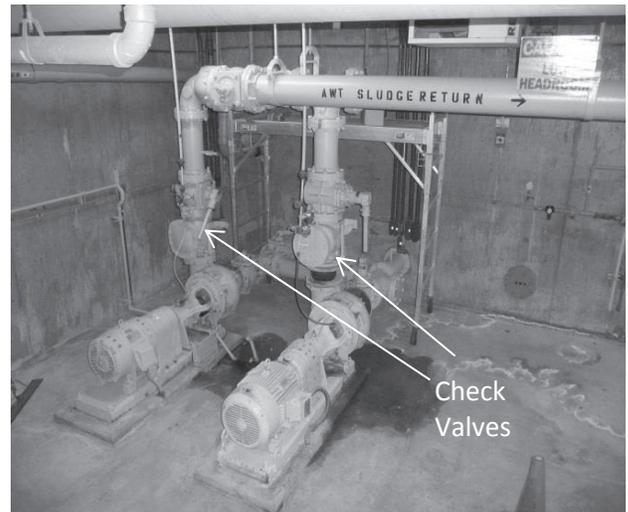
2020 -

\$ 7,000 **Total Cost**

Total Cost \$ 7,000

PROJECT DESCRIPTION

The check valves (CV) on the discharge of the clarifloculator pumps have aged and one is not operating properly. It has been observed that when one of the pumps is running the other is running backwards, i.e., one pump is sending discharge into the other one.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Submersible Mixers for Aeration Basins

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 66,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 66,000

2016 -

2017 -

2018 -

2019 -

Total Cost \$ 66,000

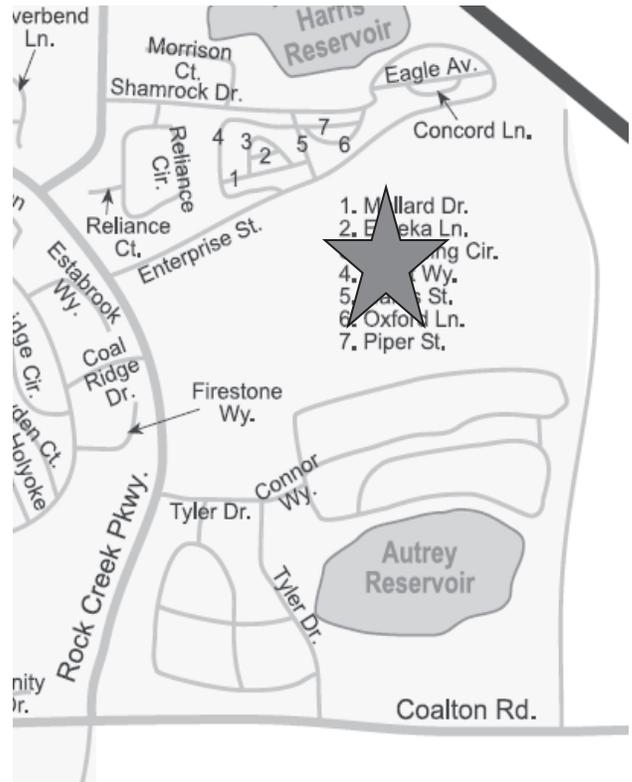
Total Cost \$ 66,000

PROJECT DESCRIPTION

Installation of submersible mixers for the aeration basins at the Waste Water Treatment Plant (WWTP). Submersible mixers provide for increased denitrification capability. Currently there are surface mixers which do not mix as thoroughly. This budget is to cover the installation of 2 mixers purchased in 2015 and installation and purchase of two (2) more mixers for the west basin.

ANNUAL OPERATING BUDGET IMPACT

\$ -



WWTP PLC Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 30,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 30,000

2017 -

2018 -

2019 -

2020 -

\$ 30,000 **Total Cost**

Total Cost \$ 30,000

PROJECT DESCRIPTION

This project provides for replacement of obsolete programmable logic controllers (PLC) at the Waste Water Treatment Plant (WWTP). Parts are becoming hard to find or non-existent for the existing PLC's.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Process Pump Maintenance

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 68,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 68,000

2017 141,000

2018 -

2019 -

2020 -

\$ 68,000 **Total Cost**

Total Cost \$ 209,000

PROJECT DESCRIPTION

2016 - Replace (3) advanced wastewater treatment pumps in basement of secondary process building.

2017 - Replace the reuse pumps and add variable frequency drives in lieu of pump control valves (\$112K). Rebuild backwash pumps (\$29K).



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Controls Equipment Upgrades

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 15,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 15,000

2017 -

2018 -

2019 -

2020 -

\$ 15,000 **Total Cost**

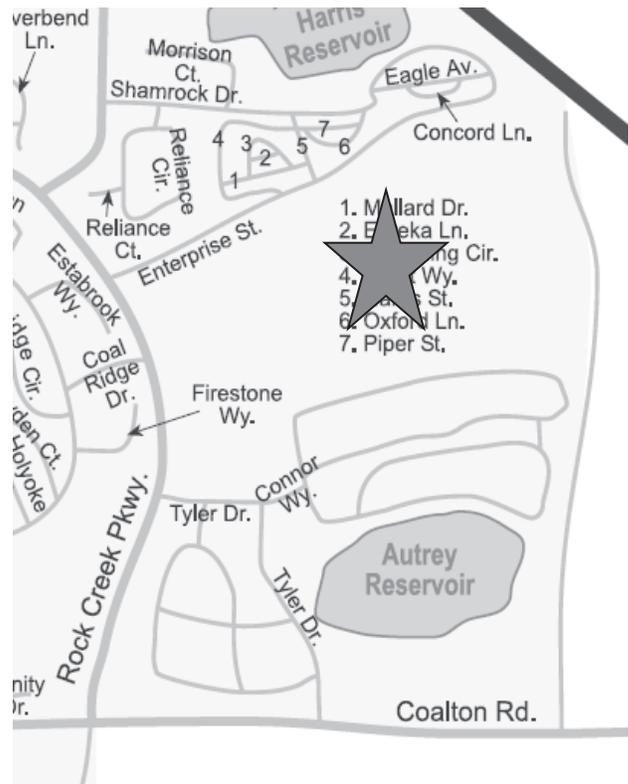
Total Cost \$ 15,000

PROJECT DESCRIPTION

This project will provide pH automation to eliminate estimating the dosage of chemicals required to maintain proper pH. Controlling the pH in the process will aid in the prevention of corrosion of the equipment as well as meeting discharge limits.

ANNUAL OPERATING BUDGET IMPACT

TBD



WWTP Equalization Pond Liner Repair

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 200,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 200,000

2017 550,000

2018 -

2019 -

2020 -

\$ 200,000 **Total Cost**

Total Cost \$ 750,000

PROJECT DESCRIPTION

Replacement/repair of a damaged equalization pond liner at the Waste Water Treatment Plant (WWTP). Dredge, reline, cover, and potentially use for future reuse water storage.

2016 - Design

2017 - Construction



ANNUAL OPERATING BUDGET IMPACT

\$ -

Sanitary Sewer Manhole & Lines Rehabilitation

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 100,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 100,000

2017 100,000

2018 80,000

2019 80,000

2020 80,000

\$ 100,000 **Total Cost**

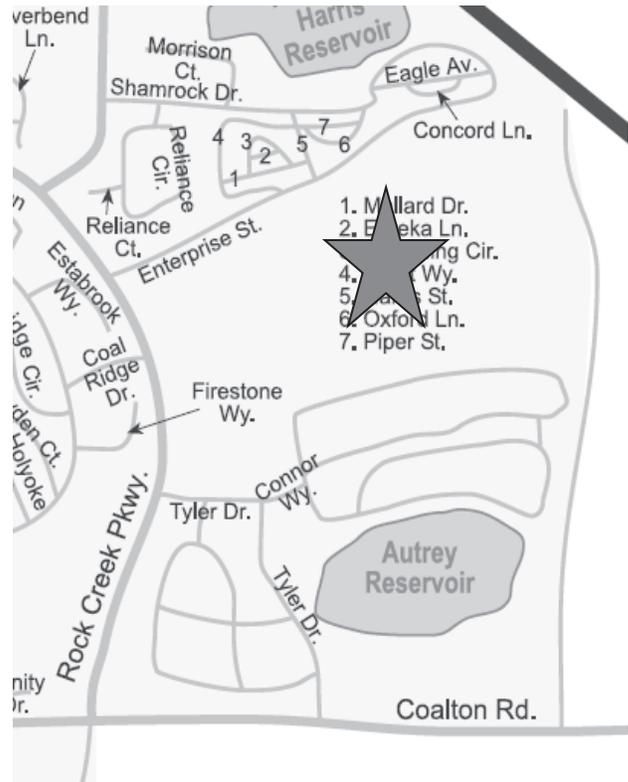
Total Cost \$ 440,000

PROJECT DESCRIPTION

Rehabilitation of sewer manholes with infiltration issues and sagging pipelines, which will have significant infiltration. This increased flow puts a strain on the WWTP.

ANNUAL OPERATING BUDGET IMPACT

\$ (1,000)



WWTP Chemical Pump Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 12,000 Sewer Capital

BUDGET BY YEAR

2016 \$ 12,000

2017 -

2018 -

2019 -

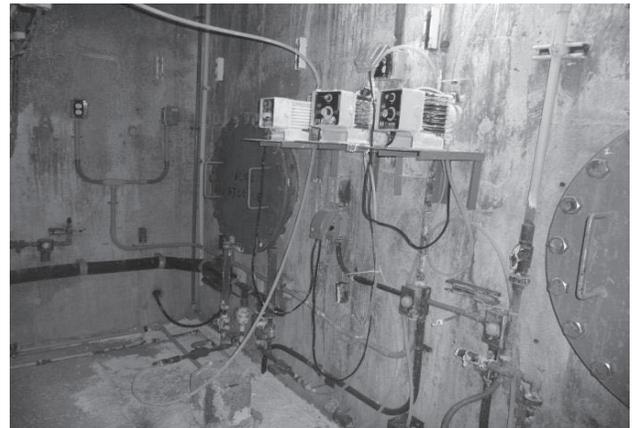
2020 -

\$ 12,000 **Total Cost**

Total Cost \$ 12,000

PROJECT DESCRIPTION

This project replaces two (2) chlorine metering pumps and purchases one (1) spare.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Secondary Clarifiers Upgrade

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 50,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|-----------|
| 2016 | \$ 50,000 |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | - |

\$ 50,000 **Total Cost**

Total Cost \$ 50,000

PROJECT DESCRIPTION

Upgrade the ventilation system in the secondary clarifier building. Need to be able to have a minimum of six (6) air changes to prevent a corrosive environment. The clarifier equipment has been replaced and the ventilation system will provide a source of protection.



ANNUAL OPERATING BUDGET IMPACT

TBD

WWTP Site Drainage Improvements

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 20,000 Sewer Capital

BUDGET BY YEAR

| | | |
|------|----|---------|
| 2016 | \$ | - |
| 2017 | | - |
| 2018 | | 20,000 |
| 2019 | | 130,000 |
| 2020 | | - |

\$ 20,000 **Total Cost**

Total Cost \$ 150,000

PROJECT DESCRIPTION

This project will address a long standing issue at the Waste Water Treatment Plant (WWTP) of poor drainage/standing water from the entrance gate to the sludge docking bay, through the parking lot and out to the holding ponds and eventually to Rock Creek.

2016 - Design

2017 - Construction



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Miscellaneous Improvements

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 100,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|---------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | 100,000 |
| 2019 | 100,000 |
| 2020 | 100,000 |

\$ 100,000 **Total Cost**

Total Cost \$ 300,000

PROJECT DESCRIPTION

This project is intended to provide a reserve for yet to be identified capital improvements at the Waste Water Treatment Plant (WWTP). Town staff and our professional consultants will continue to work to identify specific longer term maintenance capital needs as well as Federal/State mandated projects.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Buried Decant Line

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 30,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 30,000 |
| 2020 | - |

Total Cost \$ 30,000

Total Cost \$ 30,000

PROJECT DESCRIPTION

This project will provide direct bury of a temporary surface hose that pulls the water from the top of the digester (decants) to help thicken the solids.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Sodium Bicarbonate Piping and Tank Overhaul

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 35,000 Sewer Capital

BUDGET BY YEAR

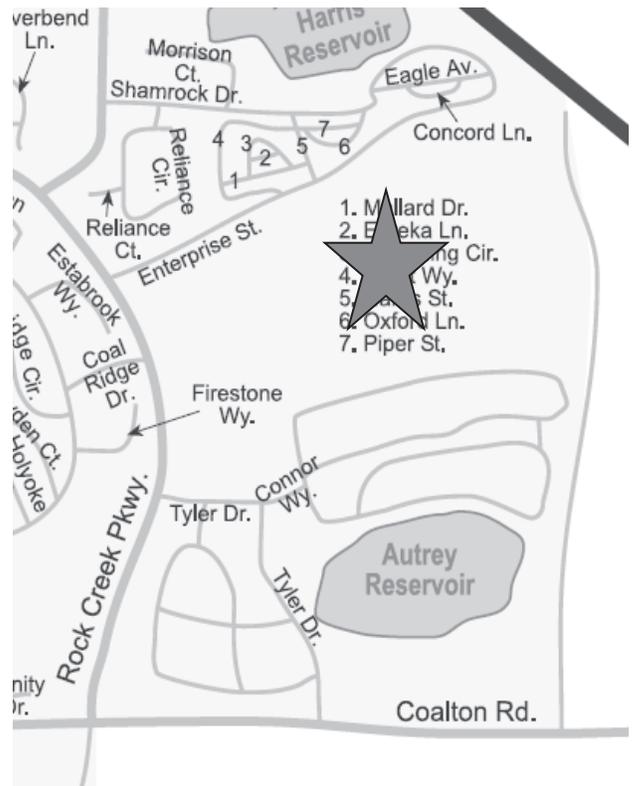
| | |
|------|--------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 35,000 |
| 2020 | - |

Total Cost \$ 35,000

Total Cost \$ 35,000

PROJECT DESCRIPTION

This project will rebuild/replace piping and valves associated with the storage and distribution of the sodium bicarbonate. The storage tank has experienced some minor leakage and will be relined or coated.



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Aeration Basin Expansions and Modifications

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 415,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|---------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | 415,000 |
| 2020 | 415,000 |

\$ 415,000 **Total Cost**

Total Cost \$ 830,000

PROJECT DESCRIPTION

Preliminary design of new aeration basins and a new secondary clarifier to meet the redundancy requirements. This design improvement also provides compliance towards Regulatory 85 nutrient removal by adding the ability to denitrify the waste and phosphorus removal. Final design scheduled for 2020, with construction anticipated to begin in 2021.

Note: Federally Mandated Project



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP New Secondary Clarifier Modification

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 532,000 Sewer Capital

BUDGET BY YEAR

| | | |
|------|----|---------|
| 2016 | \$ | - |
| 2017 | | - |
| 2018 | | - |
| 2019 | | - |
| 2020 | | 532,000 |

\$ 532,000 **Total Cost**

Total Cost \$ 532,000

PROJECT DESCRIPTION

New bigger, deeper clarifier (1/3 cost of \$1.3M)
 New clarifier construction. Deeper clarifiers will provide increased settling and solids removal for phosphorus reduction.

Note: Federally Mandated Project



ANNUAL OPERATING BUDGET IMPACT

\$ -

WWTP Filter 1 Media & Underdrain Replacement

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 380,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|----------------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | <u>380,000</u> |

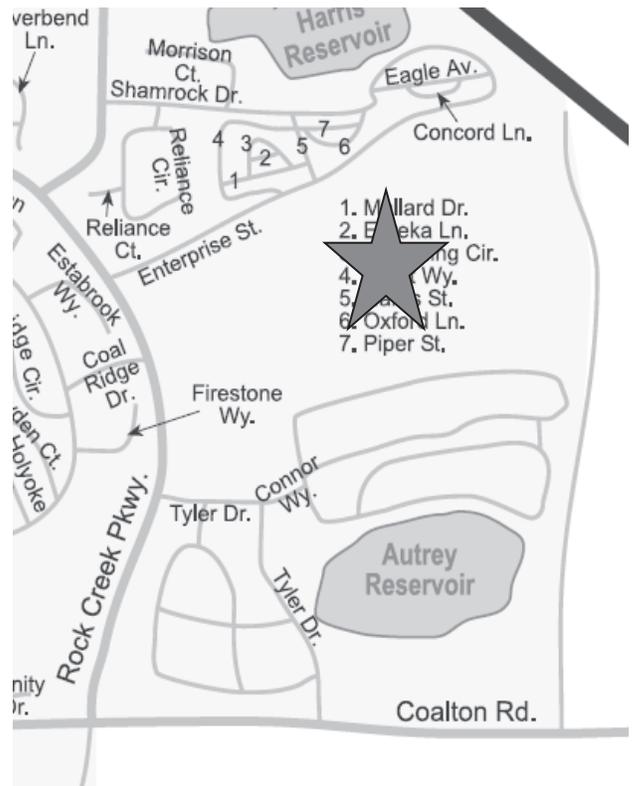
\$ 380,000 Total Cost

Total Cost \$ 380,000

PROJECT DESCRIPTION

This project replaces media and underdrain system for Filter 1.

Underdrains usually last an average of 20 years. Filter 1's under drain is 23 years old and Filter 2's is 12 years old.



ANNUAL OPERATING BUDGET IMPACT

TBD

WWTP Sludge Dewatering Improvements

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 110,000 Sewer Capital

BUDGET BY YEAR

| | |
|------|----------------|
| 2016 | \$ - |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | <u>110,000</u> |

\$ 110,000 Total Cost

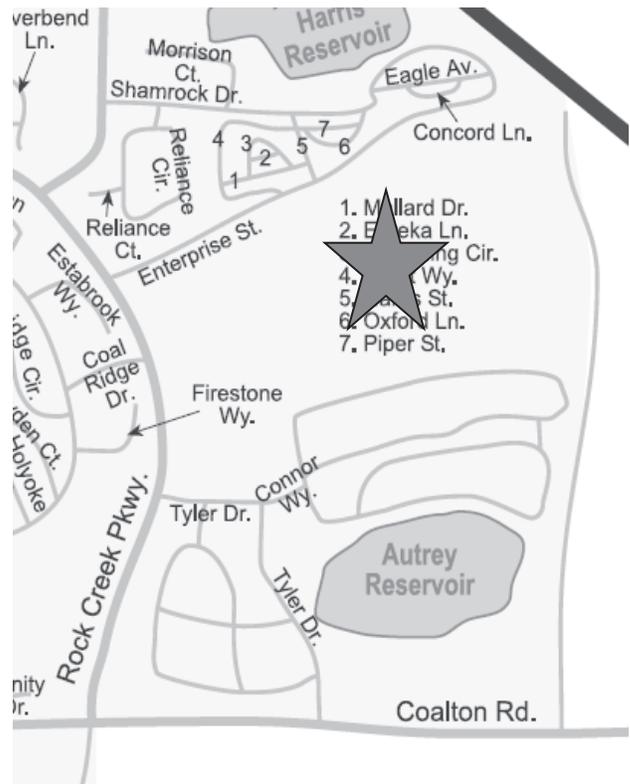
Total Cost \$ 110,000

PROJECT DESCRIPTION

This project installs a dewatering system before sending wastewater to the centrifuge to help efficiency, resulting in less chemical usage. 2020 costs are for design.

ANNUAL OPERATING BUDGET IMPACT

TBD



**2016 - 2020 Superior Metropolitan District No. 1
Storm Water Capital Improvement Program Budget Revenue (52)**

| Acct # | Revenues | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------------|-------------------------------------|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 36-6100 | Interest Income | \$2,000 | \$7,000 | \$9,000 | \$11,000 | \$13,000 |
| 36-6341 | Storm Water System Development Fees | 90,000 | 50,000 | 8,000 | 8,000 | 100,000 |
| 36-6300 | Grant Revenue | 476,000 | - | - | - | - |
| 36-6953 | Transfer from Operation User Fees | 40,000 | - | - | - | - |
| | Use of / (Addition to) Net Assets | (483,400) | (57,000) | (17,000) | (5,000) | (41,000) |
| | | \$124,600 | \$- | \$- | \$14,000 | \$72,000 |

**2016 - 2020 Superior Metropolitan District No. 1
Storm Water Capital Improvement Program Budget Expense (52-499)**

| Acct # | Expenses | 2016 Budget | 2017 Projected Budget | 2018 Projected Budget | 2019 Projected Budget | 2020 Projected Budget |
|---------------|--|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 6082 | Storm Water Manhole Steps Installation | \$40,000 | \$- | \$- | \$- | \$- |
| 6083 | Circle Park Drainage Enhancements | 80,000 | - | - | - | - |
| 6300 | Vehicle Replacement | 4,600 | - | - | 14,000 | 22,000 |
| 6421 | Building-PW/Parks Maint & Oper. | - | - | - | - | 50,000 |
| | | \$124,600 | \$- | \$- | \$14,000 | \$72,000 |

Storm Water Manhole Steps Installation

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 40,000 Storm Capital

BUDGET BY YEAR

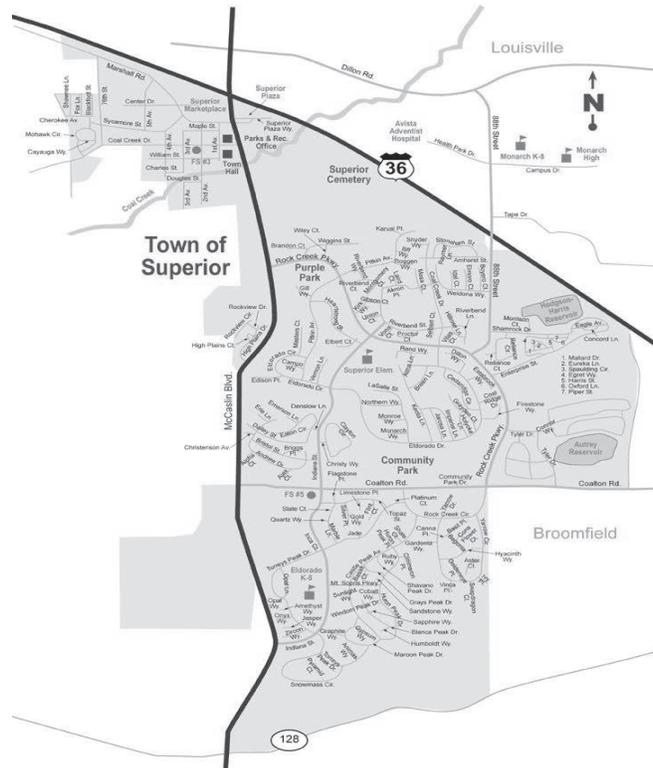
| | |
|------|-----------|
| 2016 | \$ 40,000 |
| 2017 | - |
| 2018 | - |
| 2019 | - |
| 2020 | - |

\$ 40,000 Total Cost

Total Cost \$ 40,000

PROJECT DESCRIPTION

This project provides for installation of steps in approximately 30 storm water manholes. This is necessary in order to provide maintenance access to Town staff.



ANNUAL OPERATING BUDGET IMPACT

\$ -

Circle Park Drainage Enhancements

Infrastructure Project

FIRST YEAR FUNDING SOURCE

\$ 80,000 Storm Capital

BUDGET BY YEAR

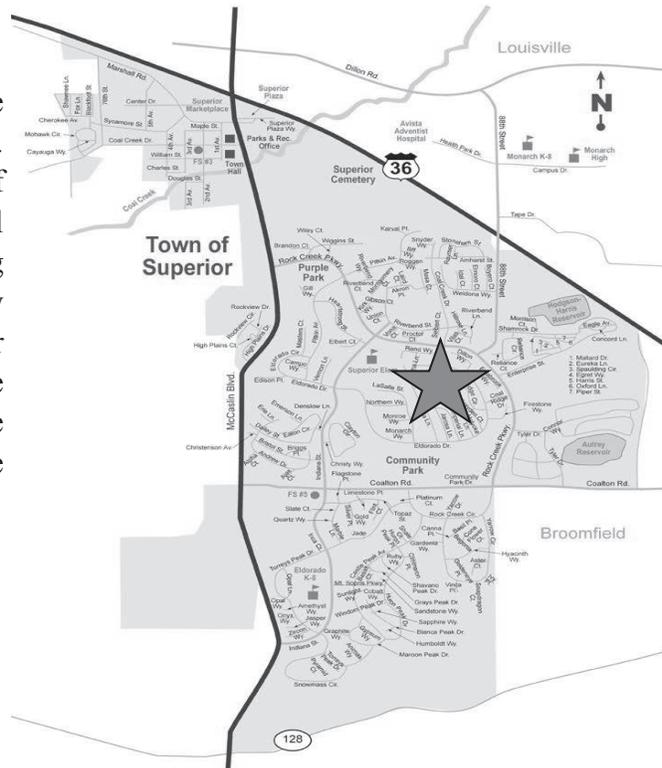
2016 \$ 80,000
 2017 -
 2018 -
 2019 -
 2020 -

\$ 80,000 **Total Cost**

Total Cost \$ 80,000

PROJECT DESCRIPTION

This project provides improvements to the drainage for the areas downstream of the Circle Park area. There has historically been a significant amount of rain and irrigation runoff from the park area. Several of the houses south of the park experienced flooding from this area in the 2013 flood event. A new underdrain will be installed near the southeast corner of the park along with a new drainage swale on the east side of the open space leading south from the park. Landscape and irrigation repairs will be required after installation of the drainage swale.



ANNUAL OPERATING BUDGET IMPACT

\$ -

(this page intentionally left blank)

