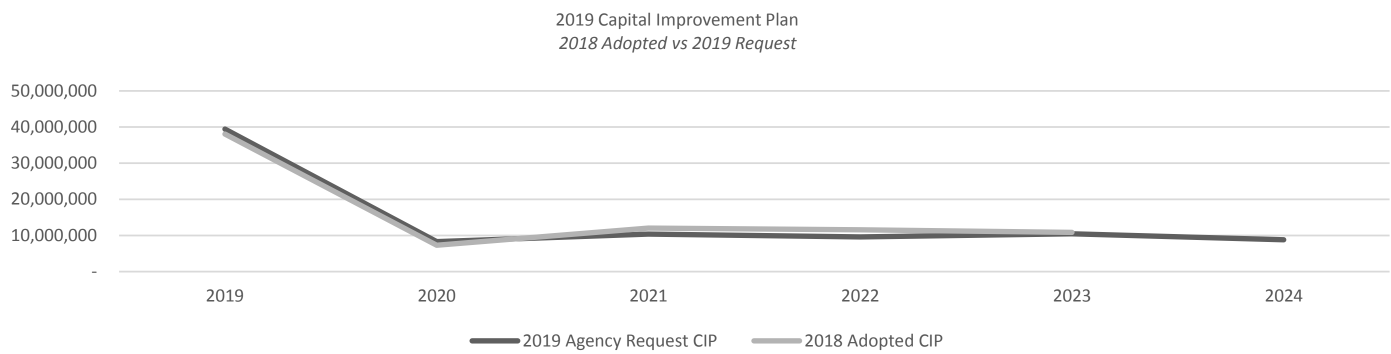
Fleet Service

Capital Improvement Plan

Project Summary

	Agency Priority	2019	2020	2021	2022	2023	2024
Fire Apparatus / Rescue Veh	1	2,635,000	2,200,000	4,100,000	3,100,000	3,780,000	1,912,500
Fleet Equipment Replacement	2	7,356,410	6,100,000	6,300,000	6,500,000	6,700,000	6,900,000
Fleet Service Relocation	4	29,162,030	-	-	-	-	-
GPS/AVL	3	275,000	-	-	-	-	-
Total		**$ 39,428,440**	**$ 8,300,000**	**$ 10,400,000**	**$ 9,600,000**	**$ 10,480,000**	**$ 8,812,500**

Changes from 2018 CIP



Program Adjustments

- Fire Apparatus/Rescue Vehicles: Program budget decreased annually in out-years ($2.28m)
- Fleet Equipment Replacement: Program budget decreased annually in out-years ($0.8m)

Department of Public Works
Fleet Service Division
Mahanth S. Joishy, Fleet Service Superintendent
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Madison, Wisconsin 53704
Phone: (608) 246-4546
www.cityofmadison.com

Date: May 8, 2018

To: David Schmiedicke, Finance Department

From: Mahanth Joishy, Fleet

Re: Fleet 2019 Budget Requests

The Fleet Service 2019 capital budget reflects a fleet that has been growing and modernizing to match the needs of city agency operations. In order to best serve the expanding Madison community, we are maintaining a strong replacement cycle for vehicles and equipment in coordination with our customer agencies for 2019, with a renewed focus on environmentally sustainable technologies at the forefront for the first time.

The top priorities for 2019 are allocating funds to construct a brand new shared fleet and radio shop facility, the replacement of nearly 100 vehicles, replacement of fire apparatus, and installing a new vehicle GPS system onto public works vehicles.

Many of the investments being made in 2019 will result in cost savings in the years to come. For example, new electric cars and hybrid cars will result in lower maintenance costs and also eliminate fuel costs. The new building construction will consolidate multiple sites into one, resulting in efficiencies with positive budget and staff time implications.

I look forward to discussing these projects and a smooth conclusion to my first capital budget process in Madison.

Submitted

Capital Budget Proposals

Section 1: Identifying Information

Agency

Fleet Service

Proposal Name

Fleet Equipment Replacemer

Project Category

Other

Project Number

17060

Proposal Description

This program provides for the continual replacement of the City's general fleet. The goal of this program is to replace vehicles in accordance with the master replacement schedule ensuring city staff have access to safe, reliable vehicles to provide their services. The program has 70 planned equipment purchases in 2018. Levy limit authority of $1.4 million, due to applying the reoffering premium on the 2017 borrowing to debt service (General Fund transfer), is itemized in 2018 to reflect the replacement of police vehicles and the bobcat replacements.

Proposal Type

Program

Priority

2

Section 2: Program Budget

Prior Authorization

	Budget	*Actual*	*Difference*
2015	10,351,587	5,074,838	5,276,750
2016	5,591,295	5,462,164	129,131
2017	7,233,067	6,045,532	1,187,535
2018	7,401,410	3,419,387	3,982,023
Total	**30,577,359**	**20,001,921**	10,575,438

Budget by Year

Funding Source	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Transfer In From General Fund	1,431,410					
Non-GF GO Borrowing	5,925,000	6,100,000	6,300,000	6,500,000	6,700,000	6,900,000
Total	$7,356,410	$6,100,000	$6,300,000	$6,500,000	$6,700,000	$6,900,000

Expense Type	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Machinery and Equipment	1,431,410					
Machinery and Equipment	5,925,000	6,100,000	6,300,000	6,500,000	6,700,000	6,900,000
Total	$7,356,410	$6,100,000	$6,300,000	$6,500,000	$6,700,000	$6,900,000

Does this program have matching funds?

○ Yes ◉ No

Section 3: Minor Projects

2019

Planned Projects

Project	*Estimated Cost*	*Street Address*
Fleet Equipment Replacement	$7,356,410	200 N First St

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	*Quantity*	*Description*
Machinery and Equipment	25	Squad cars for Police
Machinery and Equipment	8	Detective cars for Police

Asset Type	Quantity	Description
Machinery and Equipment	5	Collection trucks for Streets
Machinery and Equipment	2	Semi Tractor Trailers for Streets
Machinery and Equipment	6	Utility Body Trucks Citywide Purchase
Machinery and Equipment	1	Bucket truck for Parks
Machinery and Equipment	1	Tandem Axle dump truck for Parks
Machinery and Equipment	15	Pickup Trucks Citywide Purchase
Machinery and Equipment	10	Sedans, Vans, and SUVs Citywide Purchase
Machinery and Equipment	2	Front End Loaders
Machinery and Equipment	21	Offroad Equipment Citywide Purchase

2020

Planned Projects

Project	Estimated Cost	Street Address

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2021

Planned Projects

Project	Estimated Cost	Street Address

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2022

Planned Projects

Project	Estimated Cost	Street Address

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2023

Planned Projects

Project	Estimated Cost	Street Address

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	*Quantity*	*Description*

2024

Planned Projects

Project	*Estimated Cost*	*Street Address*

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	*Quantity*	*Description*

Section 4: Program Justification

What is the program's desired outcome for the customer?

Fleet Service purchases vehicles and equipment on behalf of customer agencies in order to enable them to fulfill their mission. All of these agency operations rely on vehicles and equipment.

How is the outcome currently being measured?

Fleet Service is constantly evaluating the health of each agency's fleet operation based on maintenance history, mileage, engine hours, and age of equipment. Replacement cycles are also considered carefully.

Notes

Notes:

Submitted

Capital Budget Proposals

Section 1: Identifying Information

Agency

Fleet Service

Proposal Name

Fire Apparatus / Rescue Veh

Project Category

Other

Project Number

12504

Proposal Description

This program provides funding to purchase Fire apparatus and rescue vehicles. The goal of the program is to maintain a high quality fleet of fire apparatus and emergency vehicles. Progress is measured by analyzing daily availability rates of the Fire fleet. In 2018, the program plans to purchase two fire trucks. In 2021 and 2022, the increased funding is representative of an increased number of Fire vehicle replacements based on the life cycle of the current assets.

Proposal Type

Program

Priority

1

Section 2: Program Budget

Prior Authorization

	Budget	*Actual*	*Difference*
2015	1,488,000	1,362,345	125,655
2016	2,011,000	1,476,987	534,013
2017	2,467,000	2,792,660	-325,660
2018	1,151,300	1,087,693	63,607
Total	**7,117,300**	**6,719,684**	397,616

Budget by Year

Funding Source	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Non-GF GO Borrowing	2,635,000	2,200,000	4,100,000	3,100,000	3,780,000	1,912,500
Total	$2,635,000	$2,200,000	$4,100,000	$3,100,000	$3,780,000	$1,912,500

Expense Type	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Machinery and Equipment	2,635,000	2,200,000	4,100,000	3,100,000	3,780,000	1,912,500
Total	$2,635,000	$2,200,000	$4,100,000	$3,100,000	$3,780,000	$1,912,500

Does this program have matching funds?

○ **Yes** ◉ **No**

Section 3: Minor Projects

2019

Planned Projects

Project	*Estimated Cost*	*Street Address*
2019 Fire Apparatus	$2,635,000	200 N First St

Service Level

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	*Quantity*	*Description*
Machinery and Equipment	1	Ladder 2 Replacement
Machinery and Equipment	1	Lake Rescue ATV Replacement
Machinery and Equipment	1	Utility Towing 5th wheel truck for trailers
Machinery and Equipment	1	

Asset Type	Quantity	Description
		Ambulance remount on same chassis
Machinery and Equipment	2	Additional ambulances
Machinery and Equipment	1	Electric plug-in sedan

2020

[Planned Projects](#)

Project	Estimated Cost	Street Address

[Service Level](#)

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2021

[Planned Projects](#)

Project	Estimated Cost	Street Address

[Service Level](#)

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2022

[Planned Projects](#)

Project	Estimated Cost	Street Address

[Service Level](#)

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2023

[Planned Projects](#)

Project	Estimated Cost	Street Address

[Service Level](#)

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

2024

[Planned Projects](#)

Project	Estimated Cost	Street Address

[Service Level](#)

What are the end products (asset or infrastructure type) provided by this program?

Asset Type	Quantity	Description

Asset Type	Quantity	Description

Section 4: Program Justification

What is the program's desired outcome for the customer?

Fire Department is involved in thousands of emergency calls, including fires, medical conditions, search and rescue, and HAZMAT conditions. This work requires fire apparatus and ambulances to respond to the jobs effectively. Fleet Service supports these operations through equipment acquisitions in coordination with Fire Department.

How is the outcome currently being measured?

Fleet Service meets regularly with Fire Department personnel to assess the equipment needed to safely fulfill their mission each year. Fleet Service also regularly inspects and assesses the equipment to ensure that units are able to stay in service, and to inform replacement decisions.

Notes

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Submitted

Capital Budget Proposals

Section 1: Identifying Information

Agency

Fleet Service

Proposal Name

Fleet Service Relocation

Project Category

Facility

Project Number

10305

Proposal Description

This project is for the construction of a new comprehensive Fleet facility at Nakoosa Trail. The new facility will house the City's Central Garage, Fire Maintenance, and the Radio Shop. The goal of the project is to improve the efficiency of fleet service operations by providing them out of a single location in contrast to the current approach that is spread across three facilities. Design began in 2016 and will be completed in 2018. Construction will begin in 2019 and be completed in 2020.

Proposal Type

Project

Priority

4

Section 2: Project Budget

Total Project Budget $32,807,500

Prior Appropriation $3,645,470

Budget by Year

Funding Source	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Non-GF GO Borrowing	29,162,030					
Total	$29,162,030	$0	$0	$0	$0	$0

Expense Type	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Building	29,162,030					
Total	$29,162,030	$0	$0	$0	$0	$0

What is the methodology used to determine the budget for this project?

This budget is based on the recommendation of Engineering Department, which is leading the construction project management for the new building. This is based on current design plans and square footage.

Are any fleet equipment or vehicles being purchased within this project budget?

○ Yes ◉ No

Have matching funds been secured for any projects within the program?

○ Yes ◉ No

Section 3: Project Justification

Is this project called for in an approved master plan?

○ Yes ◉ No

What is the desired outcome of the proposed project?

CONSISTENT WITH THE LONG RANGE FACILITY REPORT, RELOCATION OF FLEET SERVICE ALONG WITH THE RADIO SHOP OPERATIONS FROM SAYLE STREET WOULD PROVIDE FOR CONSIDERABLE EFFICIENCIES. CONSIDERABLE TRAVEL TIME IS NECESSARY BETWEEN FLEET SERVICES AND THE RADIO SHOP TO INSTALL AND REPAIR RADIOS IN VARIOUS CITY VEHICLES.

How will this outcome be measured?

MORE EFFICIENT OPERATION BY CONSOLIDATING OPERATIONS TOGETHER. REDUCTION OF REDUNDANT EQUIPMENT NEEDED BY CONSOLIDATION OF MULTIPLE PHYSICAL SERVICE LOCATIONS INTO ONE FACILITY. THE LONG RANGE FACILITIES PLANNING REPORT DETAILS ASSESMENT OF MULTIPLE DEPARTMENT NEEDS. THIS PROJECT IS VITAL TO THE NEEDS OF MULTIPLE DEPARTMENTS AND PROVIDES THE OPPORTUNITY FOR CONSOLIDATION WHILE IMPROVING EFFICIENCIES AND REDUCING EXPENSE OF MAINTAINING MULTIPLE AGED BUILDINGS.

MAINTENANCE AND TRAVEL TIME OUTCOMES WILL BE MEASURED FOR IMPROVEMENT BEGINNING IN 2020.

Section 4: Project Scope & Status

What is the scope of project?

Can this project be mapped?

◉ Yes ○ No **What is the street address of the project?**

4141 Nakoosa Trail, Madison WI 53714

Is this project on the Project's Portal?

◉ Yes ○ No **Project Portal Link:**

https://www.cityofmadison.com/engineering/projects/fleet-fire-radio-shop-facility

What is the total project timespan (all years for all phases)?

Start Year: 2016 **End Year:** 2020

What is the current status of the project?

Design Completion

Planned Schedule

	2019	*2020*	*2021*	*2022*	*2023*	*2024*
Project Status	Construction	Construction Completion				

Section 5: Operating Costs

What is the estimated annual operating costs associated with the project? $1,000,000

Personnel

# of FTEs	*Annual Cost*	*Description*
		This project has no impact on Fleet Service's personnel costs.

Non-Personnel

Major	*Amount*	*Description*
56	2,300,000	When the new Fleet building is completed, the annual depreciation cost of the building to the Fleet fund over 30 years is anticipated to be $1,000,000. Assuming 20-year GO Borrowing for the $33 million project with an annual interest rate of 3%, an anticipated intial annual principle payment of $1,250,000 and an annual interest payment of $950,000 will be charged to the Fleet fund.

Notes

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Submitted

Capital Budget Proposals

Section 1: Identifying Information

Agency

Fleet Service

Proposal Name

GPS/AVL

Project Category

Other

Project Number

17061

Proposal Description

This project will install Automatic Vehicle Location (AVL) and Global Positioning Systems (GPS) on the Public Works fleet. The goal of this project is to provide operational efficiencies for Public Works by using the technology to optimize routes for refuse collection, snow plowing operations, and other logistical operations. This project will be implemented over two years starting in 2018; the project budget was increased by Council Amendment #6.

Proposal Type

Project

Priority

3

Section 2: Project Budget

Total Project Budget $555,000

Prior Appropriation $280,000

Budget by Year

Funding Source	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Non-GF GO Borrowing	275,000					
Total	$275,000	$0	$0	$0	$0	$0

Expense Type	*2019*	*2020*	*2021*	*2022*	*2023*	*2024*
Machinery and Equipment	275,000					
Total	$275,000	$0	$0	$0	$0	$0

What is the methodology used to determine the budget for this project?

Fleet Service and Engineering are leading an initiative to install GPS units on public works vehicles. Projections for 2018 and 2019 were estimated based upon Engineering GPS vendor costs.

Are any fleet equipment or vehicles being purchased within this project budget?

○ Yes ◉ No

Have matching funds been secured for any projects within the program?

○ Yes ◉ No

Section 3: Project Justification

Is this project called for in an approved master plan?

○ Yes ◉ No

What is the desired outcome of the proposed project?

GPS will be used for the following: (1) Vehicle location and routing (2) Vehicle safety (3) Maintenance Diagnostics (4) Fuel savings and other reasons.

How will this outcome be measured?

Vehicle GPS will provide the Public Works Team a large amount of data to analyze on the above indicators.

Section 4: Project Scope & Status

What is the scope of project?

All of the eligible on road vehicles belonging to Public Works agencies will be outfitted with GPS units.

Can this project be mapped?

○ Yes ◉ No

Is this project on the Project's Portal?

○ Yes ◉ No

What is the total project timespan (all years for all phases)?

Start Year: 2018 **End Year:** 2019

What is the current status of the project?

Planning

Planned Schedule

	2019	2020	2021	2022	2023	2024
Project Status						

Section 5: Operating Costs

What is the estimated annual operating costs associated with the project?

Personnel

# of FTEs	*Annual Cost*	*Description*

Non-Personnel

Major	*Amount*	*Description*

Notes

Notes: