



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS


147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

Benn S. Sherman, P.E.
Director

MEMORANDUM

DATE: February 15, 2023

TO: Steven Sette, Town Manager
Jeanne Daley, Capital Committee Chairman

FROM: Benn S. Sherman, P.E. 

RE: **DPW Capital Planning Requests-FY2024 Only (Version 1)**

As requested, I am providing the Department of Public Works (DPW) capital plan for consideration by the Capital Committee for FY2024. This plan considers the needs of the DPW Highway Division (General Fund) only. The DPW is continuing to work with the Town Manager on the long-range capital plan that will be incorporated into the Town-wide 5-year plan.

As has been the case in the past, the deficiencies in the Department's rolling stock are taking its toll on the Highway Division and Snow and Ice budgets. The long-range capital plan continues to be heavy with the rolling stock because a number of capital requests have fallen into the "*Previously Requested*" category. This category continues to grow every year at the same time the condition of our infrastructure, rolling stock, and other equipment continue to decline.

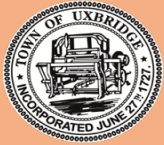
I worked with strategic staff throughout the DPW to evaluate and provide a fresh perspective on all the existing and new capital requests submitted. Attached please find the updated capital requests for the Uxbridge Department of Public Works (Highway/Parks). The summary and supporting documentation are intended to provide the additional background that should be considered with the priority requests.

The updated plan generally consists of previously requested, reprioritized requests and new items. The Department utilized the submission format provided by the Capital Committee for consistency. The cost projections include budget quotes from state contract vendors, consultants and construction estimates. We will continue to pursue many opportunities to secure funding from non-traditional sources and continue to evaluate the projects and how they impact the Department's mission.

Included with this submission are updated Special Article/Capital Project Summary Sheets for distribution to the Capital Committee. Thank you for your consideration of our plan and the support given the Department of Public Works in past years. Please let me know if this does not meet your needs or if I can provide additional details on the proposals.

CC: Paul Morante, Highway Supervisor
Jessica Messer, Treasurer/Collector

Attachment: Special Article/Capital Project Summary Sheets
FY2024 CIP Summary-General Fund
FY2024 CIP Submission Forms-General Fund



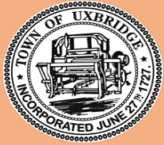
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2023 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		PROFESSIONAL SERVICES FOR HIGH STREET AREA & LINWOOD DRAINAGE DESIGNS					
MEETING:	Fall Annual Town Meeting	DATE:	10/25/22	ARTICLE:	3.3	APPROPRIATED AMOUNT:	\$ 166,000.00
SPONSOR:	Town Manager (CIP)	APPROVAL:	Yes-74, No-9 = 2/3 vote			COMMITTED AMOUNT:	\$ 166,000.00
FUNDING SOURCE:	Capital	ACCOUNT:	33-422-5880-3311PW23			REMAINING AMOUNT:	\$ -
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
CHANGES TO THE PROJECT:							
REASONS FOR CHANGES TO FINISHED DATE:							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Engineering contract executed					1/9/23	1/9/23
2	Design & Permitting					12/31/23	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



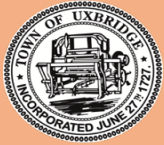
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2023 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		PROFESSIONAL SERVICES FOR NPDES STORMWATER RETROFITS AT POUT POND					
MEETING:	Fall Annual Town Meeting	DATE:	10/25/22	ARTICLE:	3.4	APPROPRIATED AMOUNT:	\$ 70,000.00
SPONSOR:	Town Manager (CIP)	APPROVAL:	Yes-74, No-9 = 2/3 vote			COMMITTED AMOUNT:	\$ 63,400.00
FUNDING SOURCE:	Capital	ACCOUNT:	33-422-5880-3312PW23			REMAINING AMOUNT:	\$ 6,600.00
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
CHANGES TO THE PROJECT:							
REASONS FOR CHANGES TO FINISHED DATE:							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Engineering contract executed					1/1/23	Ongoing
2	Design & Permitting						
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2023 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		PROFESSIONAL SERVICES FOR SUTTON STREET CULVERT DESIGN					
MEETING:	Fall Annual Town Meeting	DATE:	10/25/22	ARTICLE:	3.5	APPROPRIATED AMOUNT:	\$ 150,000.00
SPONSOR:	Town Manager (CIP)	APPROVAL:	Yes-74, No-9 = 2/3 vote			COMMITTED AMOUNT:	\$ 133,700.00
FUNDING SOURCE:	Capital	ACCOUNT:	33-422-5880-3312PW23			REMAINING AMOUNT:	\$ 16,300.00
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
CHANGES TO THE PROJECT:							
REASONS FOR CHANGES TO FINISHED DATE:							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Engineering contract executed					12/5/22	12/5/22
2	Design & Permitting					12/31/23	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



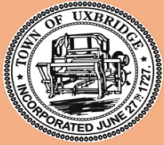
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2023 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		PROFESSIONAL SERVICES AND TRANSPORTATION/DISPOSAL OF LEGACY SOIL IN RESPONSE TO MASSDEP ENFORCEMENT					
MEETING:	Fall Annual Town Meeting	DATE:	10/25/22	ARTICLE:	3.6	APPROPRIATED AMOUNT:	\$ 1,127,500.00
SPONSOR:	Town Manager (CIP)	APPROVAL:	Yes-74, No-9 = 2/3 vote			COMMITTED AMOUNT:	\$ 63,400.00
FUNDING SOURCE:	Capital	ACCOUNT:	33-422-5890-3314PW23			REMAINING AMOUNT:	\$ 1,064,100.00
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
Disposal options for consideration of completion and disposal location change frequently, which make it difficult to plan/procure removal. We have procured the transportation and removal with multiple vendors from the state contract. Award is forthcoming and removal is anticipated to begin in March 2023.							
CHANGES TO THE PROJECT:							
Conducting additional analytical testing of material to support disposal at multiple (available) facilities.							
REASONS FOR CHANGES TO FINISHED DATE:							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Engineering compliance ongoing					Spring 2024	
2	Transportation and Disposal					7/1/23	
3	Local Environmental Permitting					Summer 2023	
4	Site Restoration					Spring 2024	
5	Projected completion (this funding phase)					Spring 2024	
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



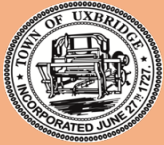
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2023 Care and Conditioning of Roads

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		FY2023 Care and Conditioning of Roads					
MEETING:	Spring Annual Town Meeting	DATE:	5/10/22	ARTICLE:	8	APPROPRIATED AMOUNT:	\$ 532,400.00
SPONSOR:	DPW Director	APPROVAL:				COMMITTED AMOUNT:	\$ 532,400.00
FUNDING SOURCE:	Raise and Appropriate	ACCOUNT:	12-422-5855-1248PW23			REMAINING AMOUNT:	\$ -
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
Restructured Pavement Management plan. Will be spending down this money in the coming months once the project is awarded.							
CHANGES TO THE PROJECT:							
Restructured Pavement Management plan. Combined monies from FY2022/23 Chapter 90, FY21 Care and Conditioning , Complete Streets Grant, & Shared Winter Streets and Spaces Grant to allow for a more comprehensive bid. Required soil testing with cold-in-place vendor indicated substandard pavement thicknesses. DPW re-evaluating method for paving of Granite/Oak section.							
REASONS FOR CHANGES TO FINISHED DATE:							
Restructured Pavement Management plan. Rolling remaining monies into FY2022/23 roadwork. Given the scope of work, project will be constructed during the summer period to minimize traffic and school impacts along Oak & Granite Streets.							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Present to BOS for approval of Road Program					3/1/22	3/28/22
2	Bid project to include FY2022/2023 roads Bid Opening completion date					6/1/22	6/15/22
3	Construction completion (remaining monies will be spend early in July 2022)					6/30/23	
4							
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



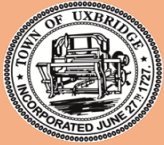
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

2016 NPDES Permit Compliance

422-DPW-Highway Division

CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		USEPA NPDES MS4 Permit Compliance					
MEETING:	Fall Town Meeting	DATE:	10/25/16	ARTICLE:	7	APPROPRIATED AMOUNT:	\$ 50,000.00
SPONSOR:	DPW Director	APPROVAL:				COMMITTED AMOUNT:	\$ 44,512.50
FUNDING SOURCE:	Stabilization	ACCOUNT:	12-422-5880-1214PW17			REMAINING AMOUNT:	\$ 5,487.50
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
USEPA permitting requirements. Working with the Central Massachusetts Stormwater Coalition to develop action plans to meet the permit requirements. Supply chain issues with procurement of equipment.							
CHANGES TO THE PROJECT:							
USEPA permitting time frames. Anticipate remaining funds to be expended by end of FY2023.							
REASONS FOR CHANGES TO FINISHED DATE:							
Supply chain issues relative to the procurement of a pole camera to be used for stormwater inspections, project development associated with FY2023 Phosphorous Construction projects.							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Completed Updates to stormwater GIS mapping					12/31/17	10/27/17
2	Ongoing MS4 permit support services					Ongoing	6/30/22
3	Ordered pole camera					4/19/22	4/19/22
4	Pole Camera Delivery					6/30/22	8/19/22
5	Completion of Stormwater Funds-PROJECT COMPLETED					6/30/23	12/1/22
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



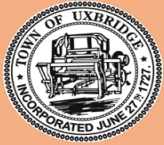
SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

2018 NPDES Permit Compliance

422-DPW-Highway Division

CONTACT: Benn Sherman

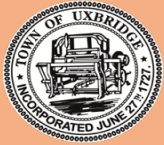
DESCRIPTION/PURPOSE:		USEPA NPDES MS4 Permit Compliance					
MEETING:	Spring Town Meeting	DATE:	5/18/18	ARTICLE:	14	APPROPRIATED AMOUNT:	\$ 50,000.00
SPONSOR:	DPW Director	APPROVAL:				COMMITTED AMOUNT:	\$ 11,171.11
FUNDING SOURCE:	Stabilization	ACCOUNT:	12-422-5880-1214PW19			REMAINING AMOUNT:	\$ 38,828.89
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
USEPA permitting requirements. Working with the Central Massachusetts Stormwater Coalition to develop action plans to meet the permit requirements.							
CHANGES TO THE PROJECT:							
USEPA permitting time frames. Anticipate expending funds by the project completion date listed in item 4 below.							
REASONS FOR CHANGES TO FINISHED DATE:							
Working with our consultant to perform FY2023 required design & construction services.							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	Completed Updates to stormwater GIS mapping					12/31/17	10/27/17
2	FY2021 MS4 permit support services					6/30/21	6/30/21
3	Ongoing FY2022 MS4 permit support services					6/30/22	6/30/22
4	FY2022/23 Field work and due date extended					6/30/23	
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	8/17/22	



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

Equipment Replacement
422-DPW-Highway Division
CONTACT: Benn Sherman

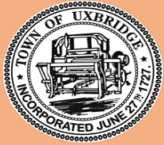
DESCRIPTION/PURPOSE:		Boom Flail attachment for the Trackless Machine					
MEETING:	Fall Town Meeting	DATE:	0/27-11/10/2	ARTICLE:	5	APPROPRIATED AMOUNT:	\$ 39,000.00
SPONSOR:	Capital Planning Committee	APPROVAL:	Yes-180, No-25 = 2/3 vote		COMMITTED AMOUNT:	\$	-
FUNDING SOURCE:		ACCOUNT:	33-423-5870-333DPW22		REMAINING AMOUNT:	\$	39,000.00
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
Vendor responded that there was a price increase. We have been working with the vendor to get the pricing corrected.							
CHANGES TO THE PROJECT:							
Product cost adjustments/changes due to market & supply chain issues.							
REASONS FOR CHANGES TO FINISHED DATE:							
Negotiations with vendor on pricing and ordering of equipment. Delivery delays from manufacturer.							
ITEM NO.	MILESTONE ACTION				PLANNED COMPLETION	ACTUAL COMPLETION	
1	Product delivery/completion				6/1/22	12/2/22	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

Vehicle Replacement
422-DPW-Highway Division
CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		(2) Sub 26,000 6-Wheel Dump Trucks with Plows to replace aging fleet					
MEETING:	Fall Town Meeting	DATE:	0/27-11/10/2	ARTICLE:	5	APPROPRIATED AMOUNT:	\$ 350,000.00
SPONSOR:	Capital Planning Committee	APPROVAL:	Yes-180, No-25 = 2/3 vote			COMMITTED AMOUNT:	\$ -
FUNDING SOURCE:		ACCOUNT:	33-423-5870-331DPW22			REMAINING AMOUNT:	\$ 350,000.00
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
Both vehicles require custom builds and take time.							
CHANGES TO THE PROJECT:							
REASONS FOR CHANGES TO FINISHED DATE:							
Vendor ordered the incorrect chassis. This was discovered when the units were delivered and sent for upfitting. Negotiations began with vendor to establish revised delivery dates. Initially, no action by the vendor to Town requests for information. DPW engaged Town Counsel to draft correspondence regarding attempted price increases due to delays, which occurred on their end. February 11, 2023, we received correspondence from Vendor they are prioritizing vehicle orders and pricing will be							
ITEM NO.	MILESTONE ACTION					PLANNED COMPLETION	ACTUAL COMPLETION
1	POs created and both order placed with vendor						11/23/21
2	Minuteman Trucks contract execution					12/31/21	1/10/22
3	Truck Delivery & buildout					Late Summer 2022	7/15/22
4	Delivery (1st round)					Fall/winter 2022	Did not occur
5	Chassis Build for end of 4th quarter					6/30/23	
6	Truck Upfitting					10/1/23	
7	Estimated Delivery					11/1/23	
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

Equipment Replacement
422-DPW-Highway Division
CONTACT: Benn Sherman

DESCRIPTION/PURPOSE:		(2) 11-foot wing plows for new D-Rated Trucks					
MEETING:	Spring Town Meeting	DATE:	5/10/22	ARTICLE:	9	APPROPRIATED AMOUNT:	\$ 46,900.00
SPONSOR:	Capital Planning Committee	APPROVAL:		COMMITTED AMOUNT:		\$ -	
FUNDING SOURCE:	TBD	ACCOUNT:	33-422-5850-331DPW22	REMAINING AMOUNT:		\$ 46,900.00	
DESCRIBE ANY ISSUES AND THEIR RESOLUTION:							
CHANGES TO THE PROJECT:							
See commentary with truck purchases							
REASONS FOR CHANGES TO FINISHED DATE:							
ITEM NO.	MILESTONE ACTION				PLANNED COMPLETION	ACTUAL COMPLETION	
1	Contract Execution				7/15/22		
2	Estimated Delivery				Fall/Winter 2022	Did not occur	
3	Chassis send for upfitting				6/30/23		
4	Estimated Delivery				11/1/23		
5							
6							
7							
8							
9							
10							
11							
12							
SUBMITTED BY:		Benn Sherman			DATE:	2/15/23	



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS

147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

DEPARTMENT OF PUBLIC WORKS CAPITAL PLAN				
LIST OF CAPITAL PROJECTS/PURCHASES BY DIVISION				
DEPARTMENT/ DIVISION	PRIORITY	PROJECT/PROGRAM	SOURCE	FY2024
ALL DPW	1	RADIO REPLACEMENT PROJECT	CAPITAL	125,000
HIGHWAY	2	NPDES PHASE 2 STORMWATER RETROFITS DESIGN	CAPITAL	165,000
HIGHWAY	3	FLEET & EQUIPMENT REPLACEMENT PROGRAM H13	CAPITAL	300,000
HIGHWAY	4	VACUUM TRAILER	CAPITAL	110,000
TOTAL - PUBLIC WORKS GENERAL FUND FY2024				700,000



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 2/15/2023 Date of Last Edit: _____

Project Title: Radio Replacement Project
Category: Infrastructure
Department: Public Works-Administration

Project: ☒ New ☐ Recurring ☐ Resubmission

☐ Multiyear Phase ☐ of ☐

Department Priority

- ☒ Urgent/Legally Required
☒ Maintain Service
☐ Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The operating budget does not have the capacity to fund the replacement for the entire DPW. Long term impacts include loss of radio communications

Recommended Financing

Funding Category	Five-Year Total	Estimated Project Costs by Fiscal Year				
		FY2024	FY2025	FY2026	FY2027	FY2028
Study/Design	\$0					
Land Acquisition	\$0					
Construction	\$125,000	\$125,000				
Equipment/Furnishings	\$0					
Contingency	\$0					
Other	\$0					
TOTAL	\$125,000	\$125,000	\$0	\$0	\$0	\$0

Funding Source(s) Check all that apply

- ☐ Tax Levy
☐ Debt
☐ Enterprise Receipts
☒ Stabilization/Capital
☐ Free Cash
☐ Revolving Fund
☐ CPA
☐ Grant(s) or Other CHAP 90

Grant Amount Requested						
CPA Amount Requested						
Net of CPA and Grants	\$0	\$0	\$0	\$0	\$0	\$0

CPA Purposes(s) Check all that apply

- ☐ Open Space
☐ Recreation
☐ Historical
☐ Housing

Operating Budget Impact

During Project						
----------------	--	--	--	--	--	--

Post-Project Annual	
Post-Project One-time	



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Radio Replacement Project
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2024

Initiation Date: 2023
Department: Public Works-Administration

Existing Conditions

The radio communications infrastructure has been updated for both Police and Fire. The DPW is currently operating on low band frequencies. The FCC is phasing out low band licensing and requiring communications to migrate to high band frequencies.

Project Description

This capital project entails the upgrade of all radio infrastructure located at the Department of Public Works. Items include: new repeater and antenna system at the main water tank site; TAIT TB9300 Repeater (DMR Digital and Analog); Battery backup system for the main water tank site; 40 Mobile radio units installed. Kenwood NX-3720HGK; Base units and remote handsets for the administrative offices and water plants; Kenwood NX-5700 & IDA Voip remotes; and 10 Portable radio units. Kenwood NX-5200.

Justification/Benefits

Required to maintain radio communications between DPW and other public safety units.

Operating Budget Discussion

Operating budget can not support the required work.

Estimate Basis

Replacement estimate was obtained through a vendor on state contract and includes pricing contingencies.

Time/Project Schedule

Estimated schedule would be to complete the upgrades by the end of FY2024.

Alternatives

Do nothing and loss radio communications.

Key Assumptions

Replacement of entire obsolete radio equipment.

Other

This upgrade is needed to be able to communicate with other public safety groups internally and externally to the Town.



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 2/15/2023 Date of Last Edit: 8/16/2022

Project Title: NPDES Phase II Stormwater Retrofits

Category: Infrastructure

Department: Public Works-Highway Division

Project: ☒ New ☐ Recurring ☐ Resubmission

☒ Multiyear Phase ☐ 2 of ☐ 2

Department Priority

☒ Urgent/Legally Required

☐ Maintain Service

☒ Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Public Works does not have the resources to fund this within the operating budget.

Recommended Financing

Funding Category	Five-Year Total	Estimated Project Costs by Fiscal Year				
		FY2024	FY2025	FY2026	FY2027	FY2028
Study/Design	\$0					
Land Acquisition	\$0					
Construction	\$165,000	\$165,000				
Equipment/Furnishings	\$0					
Contingency	\$0					
Other	\$0					
TOTAL	\$165,000	\$165,000	\$0	\$0	\$0	\$0

Funding Source(s) Check all that apply

- ☐ Tax Levy
☐ Debt
☐ Enterprise Receipts
☒ Stabilization/Capital
☐ Free Cash
☐ Revolving Fund
☐ CPA
☐ Grant(s) or Other

Grant Amount Requested						
CPA Amount Requested						
Net of CPA and Grants	\$0	\$0	\$0	\$0	\$0	\$0

CPA Purposes(s) Check all that apply

- ☐ Open Space
☐ Recreation
☐ Historical
☐ Housing

Operating Budget Impact

During Project						
----------------	--	--	--	--	--	--

Post-Project Annual	
Post-Project One-time	



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: NPDES Phase II Stormwater Retrofits

Initiation Date: 8/16/22

Project Initiator: Benn Sherman

Department: Public Works-Highway Division

Projected Fiscal Year Start/Finish: FY2023-2024

Existing Conditions

Parking lot is in disrepair. NPDES Stormwater permit requires design and installation of example best management practice (BMP) for phosphorous removal and public education. Sites were evaluated through MVP, and we selected Pout Pond parking lot to be the most advantageous project.

Project Description

Construction of the parking area with stormwater BMP's (bioretention areas) to meet the NPDES MS4 permit requirements for stormwater retrofits.

Justification/Benefits

Stormwater improvements to meet the NPDES MS4 permit requirements, parking lot reconstruction, and public education requirements.

Operating Budget Discussion

Operating budget and Chapter 90 funding are not sufficient to cover these improvements.

Estimate Basis

Developed through the MVP project and similar projects.

Time/Project Schedule

Design is anticipated to be complete by 06/30/2023 with construction to follow the following fiscal year.

Alternatives

- 1) Do nothing: Violate NPDES MS4 permit requirements
- 2) Complete improvements: Comply with permit requirements and reduce stormwater/phosphorous loadings to Pout Pond.

Key Assumptions

Refer to the findings attached from the MVP analysis.

Other

None.

Site 6 – Pout Pond Recreational Area

Pavement Reduction, Reconfiguration and Repaving of Parking Area, Bioretention

West River Road, Uxbridge, Massachusetts

Site Description

The Pout Pond Recreational Area is a popular public outdoor recreational area with a beach, playground, snack shack, and small trail around the southern shore of the pond. The parking lot serving the recreational area is aging, with large areas of pavement having broken down completely, allowing vegetation to grow through. The existing lot is unlined, so parking currently takes place haphazardly and primarily around the edges of the large existing lot. Runoff from the parking lot runs toward the beach access and Pout Pond.

Proposed Concept

- Install four bioretention basins in multiple locations, including at the end of the parking lot closest to the beach to capture runoff before it enters the beach area. Consider accessibility needs when designing the bioretention basins.
- Assess current parking needs and reconfigure the parking spaces to most efficiently make use of the available paved area to meet parking needs. Remove any unneeded pavement on the south side of the lot, restoring the pavement removal area with native vegetation, and repave the remaining parking lot.
- Install educational signage to inform visitors about the function and benefits of green stormwater infrastructure and low impact development.p

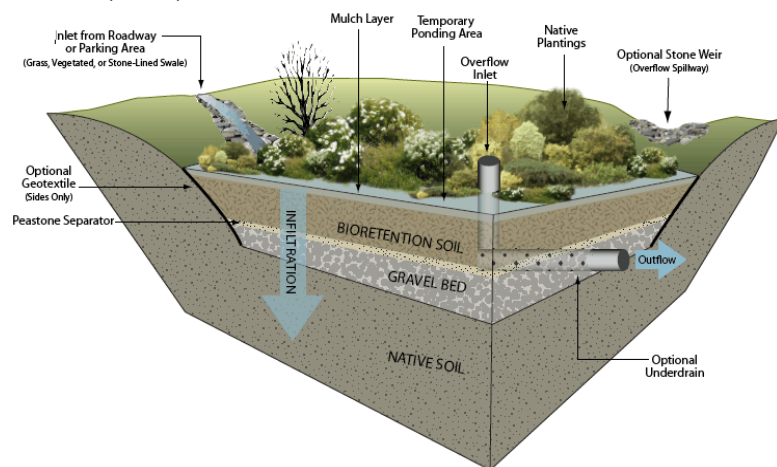


Image 2: Typical diagram of a bioretention basin. Image source: MA Clean Water Toolkit



Image 1: Example of an established bioretention basin with a concrete curb cut and concrete pretreatment structure to remove sediment before runoff enters the planted portion of the basin. Image source: Fuss & O'Neill

Pavement Reduction Concept Summary
Total Impervious Area Removed: 0.23 acres
Water Quality Volume Reduction: 1,000 ft³

Bioretention Concept Summary
Total Impervious Area: 0.55 acres
Treated Water Quality Volume: 2,380 ft³

Estimated Cost
Reconfigured and Repaved Parking Lot with
Bioretention Basins: \$164,000



Image 3: Rendering of a typical bioretention area with plantings. Image source: Johnson County Soil and Water District



POUT POND, UXBRIDGE MA

Disclaimer: This map is not the product of a Professional Land Survey. It was created by Fuss & O'Neill Inc. for General Reference and is not a legally authoritative source. Fuss & O'Neill Inc. makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map. Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services. Imagery © Google.

0 15 30 60
Feet



FUSS & O'NEILL
1550 Main Street, Suite 400
Springfield, MA 01103
413.452.0445 | www.fando.com



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 2/15/2023 Date of Last Edit: 8/16/2022

Project Title: Highway Equipment Replacement Program

Category: Equipment

Department: Public Works-Highway Division

Project: ☐ New ☒ Recurring ☒ Resubmission
☒ Multiyear Phase ☐ of ☐

Department Priority

- ☒ Urgent/Legally Required
☒ Maintain Service
☐ Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The current fleet of rolling stock is aged and tired. Continued use of budget funds to repair and keep in service is taking its toll on the staff and our ability to maintain a consistent level of service. The acquisition of these vehicles as part of the vehicle replacement program updates the DPW fleet and improves efficiency within the department. The goal is to replace equipment before the cost of ongoing repairs exceeds the vehicles usefulness. Annual updating of equipment is a useful tool in stabilizing vehicle repairs costs. Improved fuel economy, cleaner emissions and safer state of the art equipment results in a more efficient management of the fleet.



Recommended Financing

Funding Category	Five-Year Total	Estimated Project Costs by Fiscal Year				
		FY2024	FY2025	FY2026	FY2027	FY2028
Study/Design	\$0					
Land Acquisition	\$0					
Construction	\$0					
Equipment/Furnishings	\$300,000	\$300,000				
Contingency	\$0					
Other	\$0					
TOTAL	\$300,000	\$300,000	\$0	\$0	\$0	\$0

Funding Source(s) Check all that apply

- ☐ Tax Levy
☐ Debt
☐ Enterprise Receipts
☒ Stabilization/Capital
☐ Free Cash
☐ Revolving Fund
☐ CPA
☐ Grant(s) or Other

Grant Amount Requested						
CPA Amount Requested						
Net of CPA and Grants	\$0	\$0	\$0	\$0	\$0	\$0

CPA Purposes(s) Check all that apply

- ☐ Open Space
☐ Recreation
☐ Historical
☐ Housing

Operating Budget Impact

During Project						
----------------	--	--	--	--	--	--

Post-Project Annual	
Post-Project One-time	



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Highway Equipment Replacement Program

Initiation Date: 1/7/19

Project Initiator: Benn Sherman

Department: Public Works-Highway Division

Projected Fiscal Year Start/Finish: FY2024

Existing Conditions

The existing fleet is aged and tired. Rolling stock ranges from 1987 to the present.

Project Description

1987 Mack 6-Wheel Dump (H-13): The odometer has not worked in this vehicle for quite some time but it does have over 7,064 hours. This truck has a history of mechanical problems. Reliability and severe corrosion have necessitated this vehicle replacement. It will be replaced with a similar truck that is consistent with the fleet.

Justification/Benefits

Replacement of designated fleet within industry standard time frames will reduce operating budget impacts.

Operating Budget Discussion

Replacement costs exceed operating budget capacity. The Department expends a large percentage of the budget on repairing vehicles and equipment that are well beyond their useful life.

Estimate Basis

Typical state contract vehicle costs.

Time/Project Schedule

Order would be placed with state contract vendor shortly after funding approval. Based on current vehicle build schedules, we anticipate a delivery date a year later.

Alternatives

Continued use of maintenance funds to keep vehicles on the road.

Key Assumptions

Vehicle service life cycle

Other



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 2/15/2023 Date of Last Edit: _____

Project Title: Vacuum Trailer - Stormwater
Category: Equipment
Department: Public Works-Highway Division

Project: ☒ New ☐ Recurring ☐ Resubmission
☐ Multiyear Phase ☐ of ☐

Department Priority

☐ Urgent/Legally Required
☒ Maintain Service
☒ Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*
The operating budget does not have the capacity to support this request. The existing full size catch basin cleaner truck has long since exceeded its service life.

LP SGT VACUUM EXCAVATOR



Recommended Financing

Funding Category	Five-Year Total	Estimated Project Costs by Fiscal Year				
		FY2024	FY2025	FY2026	FY2027	FY2028
Study/Design	\$0					
Land Acquisition	\$0					
Construction	\$0					
Equipment/Furnishings	\$110,000	\$110,000				
Contingency	\$0					
Other	\$0					
TOTAL	\$110,000	\$110,000	\$0	\$0	\$0	\$0

Funding Source(s)
Check all that apply

☐ Tax Levy
☐ Debt
☐ Enterprise Receipts
☒ Stabilization/Capital
☐ Free Cash
☐ Revolving Fund
☐ CPA
☐ Grant(s) or Other

Grant Amount Requested						
CPA Amount Requested						
Net of CPA and Grants	\$0	\$0	\$0	\$0	\$0	\$0

CPA Purposes(s)
Check all that apply

☐ Open Space
☐ Recreation
☐ Historical
☐ Housing

Operating Budget Impact

During Project						
----------------	--	--	--	--	--	--

Post-Project Annual	
Post-Project One-time	



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Vacuum Trailer - Stormwater
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2024

Initiation Date: 2/15/23
Department: Public Works-Highway Division

Existing Conditions

The existing full size catch basin cleaner truck has long since exceeded its service life. In addition, the stormwater system has a number of proprietary treatment units that can only be maintained by a vacuum cleaner not a "dam shell" style unit.

Project Description

Purchase a trailer mounted vacuum trailer. This unit will be used inconjunction with the aging catch basin cleaner truck, in addition, to expanding our ability to maintain prioprietary treatment units.

Justification/Benefits

Required under our NPDES Ms4 permit and will be used in concert with the aging catch basin cleaner truck.

Operating Budget Discussion

The operating budget does not have the capacity to support this capital purchase.

Estimate Basis

Pricing was provided by a state contract vendor for the specific make and model requested by the DPW.

Time/Project Schedule

It is anticipated this unit would be proccured and received before the end of FY2024.

Alternatives

If not purchased, we will continue not to achieve the required catch basin cleaning requirements of our NPDES MS4 permit

Key Assumptions

State contract acquisition.

Other