

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**
PROJECT STATUS:

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**

Properties on Bethany Road, Barbieri Road, and Daisley Place abut Waushakum Pond, and are currently not serviced by the City's public sewers, instead rely on onsite wastewater disposal systems (septic systems) for disposal of sewage. Septic systems located in close proximity to the pond increase nutrient loads entering the pond and contribute to reduced water quality, particularly in the warm months. In an effort to improve water quality in Waushakum Pond and reduce beach closures, this appropriation would fund the design of extending new sewers onto Bethany Road from Winthrop Street to the City limit, on Barbieri Road and on Daisley Place. This appropriation would also fund the design of a new sewer pump station to collect wastewater from this service area, pumping it to the upstream gravity sewer, and provide a design for improvements to the receiving sewer, as necessary. This project would have the potential to provide new sewer service to at least 30 unserved properties, one of which is the future potential location of the new Bethany School. The new Bethany Road Area sewers would be designed with capacity to serve the new school building and facilities.

PROJECT ADDITIONS/CHANGES JUSTIFICATION:

New project to improve Lake Waushakum water quality and provide sewer service to proposed new school.

(3) **PURPOSE OF PROJECT:**

<input type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input checked="" type="checkbox"/>	New infrastructure
<input checked="" type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility	100,000					
c. Design						
d. Construction						
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	100,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/> health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input type="checkbox"/> level service maintenance	maintains City desired level of service
c. <input type="checkbox"/> economic development	adds to the City's economic vibrancy
d. <input type="checkbox"/> service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	YEARS 29-33
Personnel							
Operating							

<p>(7) PROPOSED FUNDING SOURCE(S):</p> <p>1) Bond</p> <p>2)</p> <p>3)</p>	<p>(10) PROJECT OR EQUIPMENT LOCATION:</p> <p>Bethany Road</p> <p>(11) ASSET TYPE:</p>
<p>(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)</p>	
<p>(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)</p> <p>Robert A. Lewis</p>	
<p>(9) FINANCE DEPARTMENT NOTES:</p>	

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) PROJECT NAME:
PROJECT STATUS:

<p>(2) PROJECT DESCRIPTION AND JUSTIFICATION:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Vehicle and equipment per Public Work's vehicle management and replacement schedule. The procurement and upkeep of equipment is a significant factor in providing cost-effective and reliable service for systems operation, maintenance, repair, rehabilitation and replacements. All vehicles and equipment are managed through the Fleet Department and included within a replacement schedule according to specific criteria, such as age, mileage, and major repairs needed for continued reliable service. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, nearly all vehicles and equipment are used for the Department's snow and ice management program which is particularly destructive to vehicles.</p> </div> <p>PROJECT ADDITIONS/CHANGES JUSTIFICATION:</p> <input type="text"/>	<p>(3) PURPOSE OF PROJECT:</p> <table border="0"> <tr><td><input type="checkbox"/></td><td>Replace existing infrastructure</td></tr> <tr><td><input type="checkbox"/></td><td>Replace existing capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>Replace existing vehicle</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Replace equipment</td></tr> <tr><td><input type="checkbox"/></td><td>New infrastructure</td></tr> <tr><td><input type="checkbox"/></td><td>New capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>New vehicle</td></tr> <tr><td><input type="checkbox"/></td><td>New equipment</td></tr> <tr><td><input type="checkbox"/></td><td>Strategic/Comprehensive/Master plan</td></tr> </table>	<input type="checkbox"/>	Replace existing infrastructure	<input type="checkbox"/>	Replace existing capital asset	<input type="checkbox"/>	Replace existing vehicle	<input checked="" type="checkbox"/>	Replace equipment	<input type="checkbox"/>	New infrastructure	<input type="checkbox"/>	New capital asset	<input type="checkbox"/>	New vehicle	<input type="checkbox"/>	New equipment	<input type="checkbox"/>	Strategic/Comprehensive/Master plan
<input type="checkbox"/>	Replace existing infrastructure																		
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<input type="checkbox"/>	New vehicle																		
<input type="checkbox"/>	New equipment																		
<input type="checkbox"/>	Strategic/Comprehensive/Master plan																		

(4) BUDGET REQUEST BY YEAR:

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction						
e. Equipment/Vehicles	490,000	225,000	538,000	305,000	85,000	
f. Contingency						
g. Other						
TOTAL	490,000	225,000	538,000	305,000	85,000	-

(5) PRIORITY:

a.	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b.	level service maintenance	maintains City desired level of service
c.	economic development	adds to the City's economic vibrancy
d.	service improvement	new or improved service to meet demand

(6) EFFECTS ON ANNUAL OPERATING BUDGET:

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	YEARS 29-33
Personnel							
Operating							

(7) PROPOSED FUNDING SOURCE(S):

- 1)
- 2)
- 3)

(10) PROJECT OR EQUIPMENT LOCATION:
(11) ASSET TYPE:

(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)

(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)

Robert A. Lewis

(9) FINANCE DEPARTMENT NOTES:

Public Works - Proposed FY2024 Vehicle & Equipment Capital Requests

GENERAL FUND

Priority	Unit #	Division Assignment	Year	Make	Description	Life (Yrs)	Replacement Due	Replacement Amount
1	517	Sanitation	2015	PETERBILT	72,000 GVW C & C W/SIDE LOADER PACKER & PLOW	8	2023	\$410,000.00
2	230	Lighting & Signals	1995	IHC	40' AERIAL LIFT W/SERVICE BODY	15	2010	\$320,000.00
3	501	Sanitation	2012	FORD	F150-7,700 GVW 4WD P/U TRK	10	2022	\$55,000.00
4	409	Highway	2008	FORD	F550-15,000 GVW 4 WD C&C W/RACK BODY&PLOW	15	2023	\$75,000.00
5	410	Highway	2012	FORD	F550-15,000 GVW 4WD C&C W/DUMP BODY&PLOW	12	2024	\$75,000.00
6	418	Highway	2012	FORD	F350-11,000 GVW 4 WD C&C W/UTL BODY & PLOW	12	2024	\$75,000.00
7	810	Admin.	2010	FORD	TAURUS (PROPOSED - FORD EXPLORER HYBRID)	12	2022	\$50,000.00
8	467	S & I Sidewalk	2006	HOLDER	SIDEWALK TRACTOR - WHEELED	15	2021	\$180,000.00
9	301	Fleet	2006	FORD	15,000 GVW 4 WD C&C W/UTILITY BODY	15	2021	\$140,000.00
10	496	Highway / Specialty Equip	1989	INGERSOL	PORTABLE AIR COMPRESSOR	20	2009	\$30,000.00
11	429	Snow & Ice	2001	VOLVO	ACL-65,000 GVW C&C W/SANDER&PLOW	20	2021	\$250,000.00
12	48	Highway	2011	FORD	F150-7,700 GVW 4WD P/U TRK	12	2023	\$55,000.00
13	520	Sanitation	1999	VOLVO	68,000 GVW C & C W/ROLLOFF FRAME	15	2014	\$225,000.00
General Fund Total								\$1,940,000.00

SEWER ENTERPRISE FUND

Priority	UNIT #	Division Assignment	YEAR	CURRENT	DESCRIPTION	LIFE YRS	REPLACE DUE	2024
1	71	Sewer	2012	FORD	F150-7,700 GVW 4WD PICKUP TRK	10	2022	\$55,000.00
2	704	Sewer	2008	FORD	F350-11,000 GVW 4WD C&C UTL BODY W/PLOW	10	2018	\$75,000.00
3	725	Sewer	2008	FORD	F350-11,000 GVW 4 WD C&C UTL BODY & PLOW	10	2018	\$75,000.00
4	72	Sewer	2012	FORD	F350-11,000 GVW 4WD C&C UTL BODY W/PLOW	10	2022	\$75,000.00
5	797	Sewer / Sm. Specialty	2003	CAT	AC GENERATOR	20	2023	\$150,000.00
6	795	Sewer / Sm. Specialty	2003	GODWIN	6" GODWIN PUMP	20	2023	\$60,000.00
Sewer Enterprise Fund Total								\$490,000.00

WATER ENTERPRISE FUND

Priority	UNIT #	Division Assignment	YEAR	CURRENT	DESCRIPTION	LIFE YRS	REPLACE DUE	2024
1	601	Water	2012	FORD	11,000 GVW 4 WD C&C W/SERVICE BODY & PLOW	10	2022	\$75,000.00
2	608	Water	2012	FORD	15,000 GVW 4 WD C&C W/GATE TURNER	10	2022	\$250,000.00
3	617	Water	2012	FORD	11,000 GVW 4 WD C&C W/SERVICE BODY & PLOW	10	2022	\$75,000.00
4	619	Water	2012	FORD	11,000 GVW 4 WD C&C W/SERVICE BODY & PLOW	10	2022	\$75,000.00
5	634	Water	2005	MACK	72,000 GVW C & C W/ DUMP BODY W/PLOW	15	2020	\$250,000.00
6	644	Water	2011	FREIGHTLINER	35,000 GVW C & C W/CONSTRUCTION BODY	10	2021	\$220,000.00
7	695	Wtr. Sm. Specialty	2003	MGS	6" GODWIN PUMP	20	2023	\$100,000.00
8	688	Wtr. Sm. Specialty	2004	MAGNUM	LIGHT TOWER	20	2024	\$25,000.00
Water Enterprise Fund Total								\$1,070,000.00



CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | ADMINISTRATION

DPW ADMINISTRATION & ENGINEERING BUILDING
110 Western Avenue
Framingham, MA 01702

508-532-5600
dpwgeneral@framinghamma.gov
www.framinghamma.gov

MEMORANDUM

DATE: October 15, 2022

TO: Louise Miller, Chief Financial Officer

FROM: Robert Lewis, Director of Public Works

RE: **FY24 Capital Vehicle Request Pricing Information**

This memo is to summarize the process for which Public Works utilizes when determining the costs to use for the FY24 Capital Budget request for the General Fund, along with the Water, and Wastewater Enterprise Funds consolidated vehicle requests.

Given the nature of the business market, supply chain issues and the like, we are unable to obtain quotes in the Fall of 2022 and get an exact cost for new vehicles intended to be purchased after July 2023. To determine what price to use for capital budget planning, we first start with the known cost in today's dollars. This may be from a recent vehicle purchase that was ordered in our currently approved vehicle budget or, in the case of a specialized piece of equipment, we were able to get a quote for what that vehicle would cost today.

Once we have the cost of the vehicle being replaced in today's dollars, we then add a percentage increase based on what the market trends have shown these vehicles increase in price over the course of a year. Regarding the FY24 budget submission, we utilized a 10% markup from today's costs.

If you have any questions or require any additional information please do not hesitate to let me know.

Cc: Michael Tusino | COO
Bill Sedewitz | Chief Engineer
Jeff Rousseau | Director of Fleet and Facilities

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) PROJECT NAME:	Edgell Road Force Main Abandonment and Sewer Replacement - Design and Construction FY24
PROJECT STATUS:	Existing in Edmunds

<p>(2) PROJECT DESCRIPTION AND JUSTIFICATION:</p> <p>Eliminating the last 560 feet of the Woodland Drive Sewer Pump Station's asbestos-cement force main installed in 1955 will improve sewer operations and eliminate dependency on old and vulnerable infrastructure. This appropriation will fund completion of the final section between two previous projects that realigned and replaced the force main for the Woodland Drive Pump Station. The DPW intends to engaged the current unit-price utility contractor, and using DPW resources, complete the project in a cost-effective, expedited manner, while maintaining high quality results. The 2019 Woodland Force Main Replacement Project (the "northern project") rerouted the force main that was buried beneath I-90 to a more accessible location along Edgell Road, connecting to the original force main just south of I-90. The 2020 Edgell Road – Central Street Utility Improvement Project ("southern project") upgraded water and sewer infrastructure from the Edgell-Central intersection north to within 560 feet of the end of the northern project. The northern project replaced the force main with new pipe. The southern portion eliminated the force main by moving its terminus north and upsizing the gravity sewer along the way to accommodate the added flow from the force main. The DPW requests funding to complete the work between the two previous projects by moving the force main terminus north to the point where the northern project ended. This project will upgrade and upsize the gravity sewer, shorten the force main, and eliminate 560 feet of the original asbestos-cement force main. Shortening a force main's length reduces the potential for formation of hydrogen sulfide, a source of corrosion that causes damage to downstream sewers.</p> <p>PROJECT ADDITIONS/CHANGES JUSTIFICATION:</p> <p>Significant escalation in material prices.</p>	<p>(3) PURPOSE OF PROJECT:</p> <table border="1"> <tr><td><input checked="" type="checkbox"/></td><td>Replace existing infrastructure</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Replace existing capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>Replace existing vehicle</td></tr> <tr><td><input type="checkbox"/></td><td>Replace equipment</td></tr> <tr><td><input type="checkbox"/></td><td>New infrastructure</td></tr> <tr><td><input type="checkbox"/></td><td>New capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>New vehicle</td></tr> <tr><td><input type="checkbox"/></td><td>New equipment</td></tr> </table> <p>Strategic/Comprehensive/Master plan</p>	<input checked="" type="checkbox"/>	Replace existing infrastructure	<input checked="" type="checkbox"/>	Replace existing capital asset	<input type="checkbox"/>	Replace existing vehicle	<input type="checkbox"/>	Replace equipment	<input type="checkbox"/>	New infrastructure	<input type="checkbox"/>	New capital asset	<input type="checkbox"/>	New vehicle	<input type="checkbox"/>	New equipment
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<input type="checkbox"/>	New infrastructure																
<input type="checkbox"/>	New capital asset																
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<input type="checkbox"/>	New equipment																

(4) BUDGET REQUEST BY YEAR:

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	835,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	835,000	-	-	-	-	-

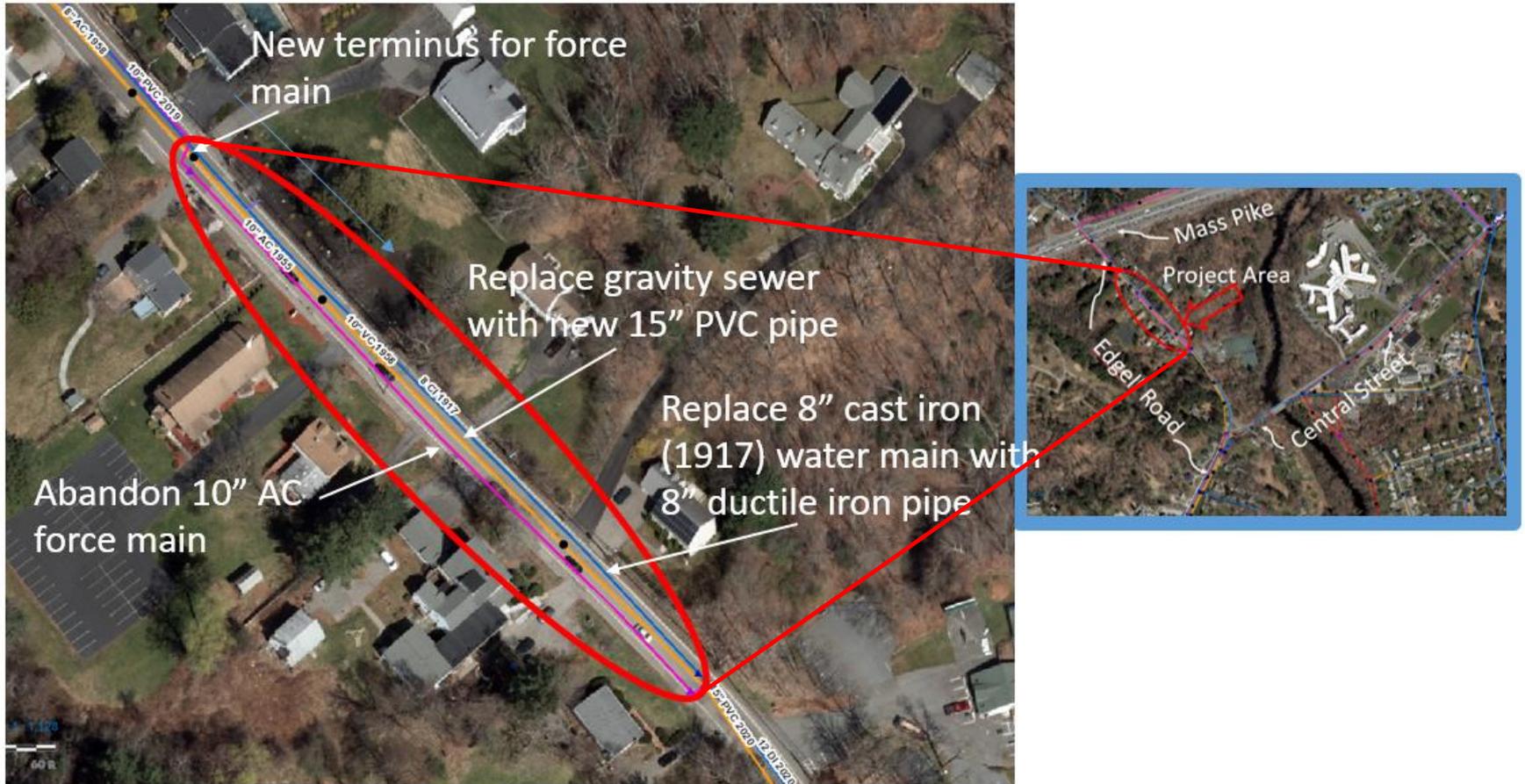
(5) PRIORITY:

a. <input checked="" type="checkbox"/> health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
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b.	level service maintenance	maintains City desired level of service						
c.	economic development	adds to the City's economic vibrancy						
d.	service improvement	new or improved service to meet demand						
(6) EFFECTS ON ANNUAL OPERATING BUDGET:								
		FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	YEARS 29-33
Personnel		20,000						
Operating								
(7) PROPOSED FUNDING SOURCE(S):					(10) PROJECT OR EQUIPMENT LOCATION:			
1)	Bond				Edgell Road between Central Street and I-90 Overpass			
2)					(11) ASSET TYPE:			
3)								
(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)								
(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)								
Robert A. Lewis								
(9) FINANCE DEPARTMENT NOTES:								

Edgell Road South of I-90 Overpass

Force Main Abandonment, Sewer Replacement, and Water Main improvements



Replacing the last 10" asbestos-cement segment of the force main (1955) and installing new, larger diameter gravity sewer will increase reliability and help protect downstream sewers from odor and corrosion. Upgrading the 8" cast iron water main (1917) in the same corridor will improve reliability and minimize potential for failure.

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**
PROJECT STATUS:

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**
 The Flanagan Drive Sewer Pump Station is in need of being replaced and upgraded. This project will replace the existing pump station that is under-sized and relies on outdated technology to serve a large residential community. The station is one of the highest priority pump station projects, based on population served, maintenance risks, sewer infrastructure needs, and benefits to the community upon installation and start-up of the replacement systems. The new facilities can be accommodated within the footprint of City-owned property near a walking path just off Flanagan Drive. The existing station uses a compressed air system to discharge collected wastewater to the downstream sewer. This technology is not only outdated but also a significant maintenance risk. Access to valves, piping, and compressors is very challenging. The air compressor frequently fails. The discharge check valves are prone to sticking and need to be maintained frequently. This type of station is so difficult to access that there may be other plugging or deterioration in areas that cannot be found without completely dismantling the buried station. There is no way to clean or vacator the station. Maintenance is difficult and a safety concern. The technology is entirely outdated, but even when it was originally installed, this type of station was for a much smaller service area. That service area has since grown substantially, forcing the system to be pumping almost constantly. The air-compressor pumping uses much more power than a conventional pump system. Some sections of the sewers feeding the station need to be replaced or relined, because they run through wetlands and are prone to infiltration of clean water through leaky pipe joints, increasing demands on the station. The force main that discharges to a manhole on Belknap Road has experienced multiple breaks in recent years and must be replaced as part of this project.

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input checked="" type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan

PROJECT ADDITIONS/CHANGES JUSTIFICATION:

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	2,050,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						

	TOTAL	2,050,000	-	-	-	-	-
(5)	PRIORITY:						
a.	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc					
b.	level service maintenance	maintains City desired level of service					
c.	economic development	adds to the City's economic vibrancy					
d.	service improvement	new or improved service to meet demand					
(6)	EFFECTS ON ANNUAL OPERATING BUDGET:						
		FY 24	FY 25	FY 26	FY 27	FY 28	FY29
							YEARS 29-33
	Personnel	10,000					
	Operating						
(7)	PROPOSED FUNDING SOURCE(S):					(10) PROJECT OR EQUIPMENT LOCATION:	
	1) Grants					Next to 6 Flanagan Drive	
	2)					(11) ASSET TYPE:	
	3)						
(7a)	POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)						
	ARPA						
(8)	PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)						
	Robert A. Lewis						
(9)	FINANCE DEPARTMENT NOTES:						

City of Framingham
 Flanagan Drive Pump Station Replacement
 Opinion of Probable Construction Cost
 September 2022

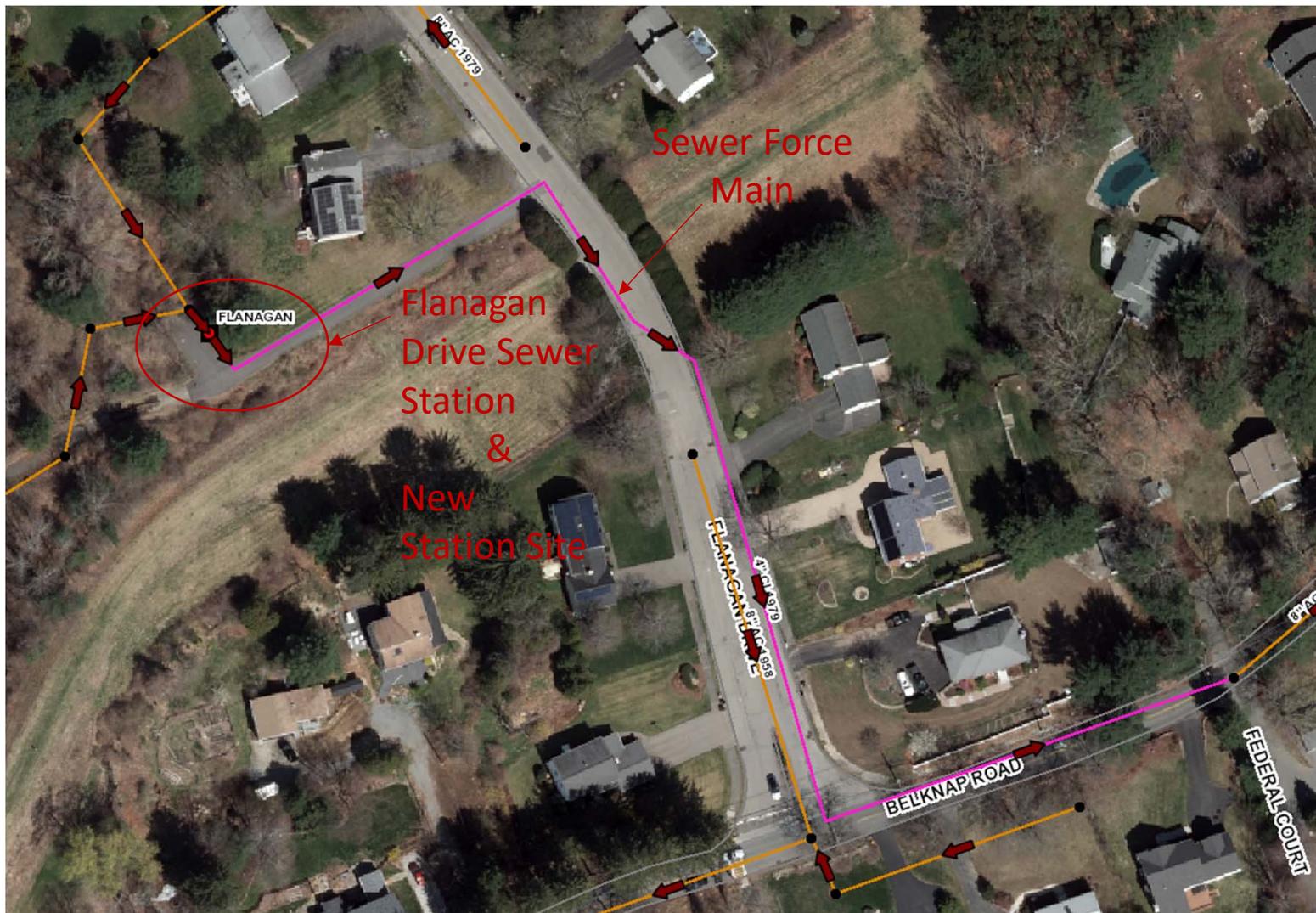
Item No.	Item Description	Units	Unit Price	Estimated Quantity	Extended Amount
1	Mobilization/Demobilization (5%)	LS	\$60,100.00	1	\$60,100.00
2	Pump Station Demolition	LS	\$30,000.00	1	\$30,000.00
3	New Suction Lift Sewer Pump Station ⁴	LS	\$300,000.00	1	\$300,000.00
4a	8-inch PVC Gravity Sewer Pipe	LF	\$450.00	20	\$9,000.00
4b	4-inch PVC Sewer Force Main	LF	\$225.00	1,050	\$236,250.00
5a	5-foot diameter Sewer Manhole	VF	\$750.00	11	\$8,250.00
5b	5-foot diameter Combination Air Valve Manhole	EA	\$30,000.00	1	\$30,000.00
5c	5-foot diameter Cleanout Manhole	EA	\$25,000.00	1	\$25,000.00
5d	Manhole Frame and Cover	EA	\$1,500.00	3	\$4,500.00
6a	8-inch CIPP Lining	LF	\$65.00	1,225	\$79,625.00
6b	Lateral Seal	EA	\$2,000.00	6	\$12,000.00
6c	Sewer Manhole Cementitious Lining	VF	\$200.00	90	\$18,000.00
6d	Sewer Manhole Epoxy Lining	VF	\$400.00	25	\$10,000.00
6e	Rebuild Existing Sewer Manhole Invert	EA	\$3,000.00	3	\$9,000.00
7	Pre-Lining 8-inch Sewer CCTV Inspection	LF	\$10.00	1,225	\$12,250.00
8	Temporary Sewer Bypass	LS	\$25,000.00	1	\$25,000.00
9a	AC Pipe Removal and Disposal	LF	\$75.00	50	\$3,750.00
9b	Management and Disposal of Crushed AC Pipe and AC Impacted Soil ³	CY	\$400.00	25	\$10,000.00
9c	Removal and Disposal of Unforeseen Asbestos ³	ALLOW	\$20,000.00	1	\$20,000.00
9d	Soil Management Plan ³	LS	\$2,500.00	1	\$2,500.00
9e	Removal and Disposal of Background of Unregulated Soil Management ³	TON	\$20.00	100	\$2,000.00
9f	Removal and Disposal of Impacted Materials ³	TON	\$25.00	50	\$1,250.00
9g	Removal and Disposal of Unlined Landfill Material ³	TON	\$45.00	50	\$2,250.00
9h	Removal and Disposal of Lined Landfill Material ³	TON	\$50.00	50	\$2,500.00
10a	Exploratory Excavation ³	CY	\$50.00	75	\$3,750.00
10b	Vacuum Excavation ³	CY	\$25.00	25	\$625.00
11a	Common Fill ³	CY	\$20.00	100	\$2,000.00
11b	Select Fill	CY	\$40.00	100	\$4,000.00
11c	Controlled Density Fill (CDF)	CY	\$150.00	25	\$3,750.00
12	Rock Excavation	CY	\$300.00	100	\$30,000.00
13a	Temporary Trench Pavement, 4-in thick	SY	\$70.00	325	\$22,750.00
13b	Temporary Trench Pavement, 6-in thick	SY	\$90.00	175	\$15,750.00
13c	2-inch Milling (Full Width)	SY	\$10.00	3,225	\$32,250.00
13d	2-inch Overlay (Full Width)	TN	\$150.00	370	\$55,500.00
13e	Pavement for Sidewalks and Driveways	TN	\$200.00	25	\$5,000.00
13f	Remove and Reset Granite Curb	LF	\$50.00	25	\$1,250.00
13g	4-inch Pavement for Road Reconstruction	TN	\$200.00	20	\$4,000.00
13h	Full Depth Reclamation	SY	\$30.00	100	\$3,000.00
14	Restoration of Growth	SY	\$50.00	300	\$15,000.00
15a	Filter Sock	LF	\$10.00	575	\$5,750.00
15b	Silt Sack	EA	\$200.00	5	\$1,000.00
16a	Traffic Management	LS	\$10,000.00	1	\$10,000.00
16b	Portable Changeable Message Sign	BOARD-WEEKS	\$225.00	4	\$900.00
17	Police Detail Allowance ²	ALLOW	\$55.00	480	\$26,400.00
18	Abutter Relocation	ALLOW	\$5,000.00	1	\$5,000.00
19	Electrical	LS	\$50,000.00	1	\$50,000.00
20	Utility Backcharge Allowance	ALLOW	\$40,000.00	1	\$40,000.00
21	Miscellaneous Items	LS	\$10,000.00	1	\$10,000.00

- Quantities are rounded up to nearest 5.
- Total based on 6 weeks of roadwork construction x 2 details per day.
- Allowance Only.
- All cost are in September 2022 dollars.

Construction Subtotal		\$1,260,900.00
Construction Contingency (20%)		\$252,180.00
Escalation to Construction Midpoint (15%)		\$189,135.00
Construction Total		\$1,702,215.00
Engineering (15%)		\$340,443.00
Project Total		\$2,042,658.00



Flanagan Sewer Pump Station Replacement – FY24 Capital Project Submission



The Flanagan Sewer Pump Station pumps sewage from the Flanagan Drive neighborhood via the 4" cast-iron sewer force main (shown) out to Belknap Road.

Flanagan Sewer Pump Station Replacement – FY24 Capital Project Submission



*Flanagan Drive air ejector station
& Proposed station site*



Aged air compressors (outdated technology)



Aged station controls



*Route for proposed
sewer force main*

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:** Private inflow removal from sanitary sewer system
FY24
PROJECT STATUS: NEW Project This Year

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**
The City is prohibited from having basement sump pumps discharge to the sanitary sewer system. Field investigations led to private home inspections that confirmed there are existing connections in place. The City has agreed to work on a pilot program to reimburse private property owners to disconnect and redirect sump pump discharges away from the sanitary sewers.

PROJECT ADDITIONS/CHANGES JUSTIFICATION:
The DPW's pilot program requires funding to reimburse property owners, delayed from implementation as a result of the pandemic.

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	125,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	125,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input type="checkbox"/>	level service maintenance	maintains City desired level of service
c. <input type="checkbox"/>	economic development	adds to the City's economic vibrancy
d. <input type="checkbox"/>	service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

-
-
-

(10) **PROJECT OR EQUIPMENT LOCATION:**

(11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**
PROJECT STATUS:

<p>(2) PROJECT DESCRIPTION AND JUSTIFICATION:</p> <p>The sewer mains on Taralli Terrace and Second Street are 8" vitrified clay pipe (1916 and 1941). They are sufficiently sized for the flows received, but the sewer is beyond its useful life due to its age and condition. The Taralli Terrace and Second Street Sewer mains have a history of requiring preventative maintenance as well as emergency response due to sewer blockages, at least one caused by sewer collapse. Funding from this appropriation will be used to clean and line the existing 8" vitrified clay sewer mains, extending the useful live of the Taralli Terrace and Second Street sewers. The work of the project will include repairs and sealing of structures and replacement of sewer castings as needed. The proposed upgrade to the sewers is proposed in advance of the planned roadway improvements in the area. Sewer main lining will minimize the likelihood of sewer breaks and blockage and should be done before paving upgrades. This work will be performed at teh same time as the area's water main improvements.</p> <p>PROJECT ADDITIONS/CHANGES JUSTIFICATION:</p> <p>Sewer improvements need to be undertaken in advance of road work associated with Safe Route to School grant.</p>	<p>(3) PURPOSE OF PROJECT:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td><input checked="" type="checkbox"/></td><td>Replace existing infrastructure</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>Replace existing capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>Replace existing vehicle</td></tr> <tr><td><input type="checkbox"/></td><td>Replace equipment</td></tr> <tr><td><input type="checkbox"/></td><td>New infrastructure</td></tr> <tr><td><input type="checkbox"/></td><td>New capital asset</td></tr> <tr><td><input type="checkbox"/></td><td>New vehicle</td></tr> <tr><td><input type="checkbox"/></td><td>New equipment</td></tr> <tr><td><input type="checkbox"/></td><td>Strategic/Comprehensive/Master plan</td></tr> </table>	<input checked="" type="checkbox"/>	Replace existing infrastructure	<input checked="" type="checkbox"/>	Replace existing capital asset	<input type="checkbox"/>	Replace existing vehicle	<input type="checkbox"/>	Replace equipment	<input type="checkbox"/>	New infrastructure	<input type="checkbox"/>	New capital asset	<input type="checkbox"/>	New vehicle	<input type="checkbox"/>	New equipment	<input type="checkbox"/>	Strategic/Comprehensive/Master plan
<input checked="" type="checkbox"/>	Replace existing infrastructure																		
<input checked="" type="checkbox"/>	Replace existing capital asset																		
<input type="checkbox"/>	Replace existing vehicle																		
<input type="checkbox"/>	Replace equipment																		
<input type="checkbox"/>	New infrastructure																		
<input type="checkbox"/>	New capital asset																		
<input type="checkbox"/>	New vehicle																		
<input type="checkbox"/>	New equipment																		
<input type="checkbox"/>	Strategic/Comprehensive/Master plan																		

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	135,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	135,000	-	-	-	-	-

(5) **PRIORITY:**

<input type="checkbox"/>	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
<input type="checkbox"/>	level service maintenance	maintains City desired level of service
<input type="checkbox"/>	economic development	adds to the City's economic vibrancy
<input type="checkbox"/>	service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel	20,000						
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**
 1)

(10) **PROJECT OR EQUIPMENT LOCATION:**

2)		(11) ASSET TYPE:
3)		
(7a)	POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)	
	Safe Route to School Grant for surface improvements.	
(8)	PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)	
	Robert A. Lewis	
(9)	FINANCE DEPARTMENT NOTES:	



CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | OPERATIONS

OPERATIONS CENTER
100 Western Avenue
Framingham, MA 01702

508-532-6050
water@framinghamma.gov
www.framinghamma.gov

MEMORANDUM

DATE: October 12, 2022

TO: William Sedewitz
Chief Engineer

FROM: Stephen J. Leone
Director, Water & Wastewater

RE: Preselected Utility Contractor Water Main Improvements - Cost Estimates

Cost estimates for projects using the City's preselected utility contractor are developed by taking into consideration multiple factors. The first is utilizing the unit price contract for the Water and Wastewater preselected utility contractor, PW-482. Previous projects utilizing the preselected utility contractor are looked at and an average cost per linear foot of \$381/LF was developed for FY2024 using the total cost of those projects and the quantity of pipe that was installed. Specifics of each new project are then compared to determine the relative complexity of the project, and a price per linear foot for each individual project is estimated. For FY2024, Second Street will require a more complex bypass system and both Mt. Wayte Avenue and Second Street require significant traffic management, and some night work – which often exceeds the 8-hour work day, after which labor rates increase, so the prices per linear foot for Second Street and Mt. Wayte Avenue were estimated above the average price per linear foot.

The next factor that is taken into consideration is the materials costs. This is done by estimating the quantity of materials and the unit costs, utilizing contracts PW-474 and PW-475 for pipe and fittings. PW-464 contract prices are utilized for stone, sand, and gravel and PW-430 is utilized for asphalt prices. Once a cost for materials is developed, and the amount of work is projected, the price per linear foot estimated from PW-482 is evaluated to ensure the estimate is sufficient to cover the cost of materials and contractor combined. This is done as a check and balance for the price per linear foot.

A cost for inflation of approximately 10 percent is also added to the total cost. This is to account for the materials contracts going out to re-bid prior to the project start dates and unit prices being expected to increase. Also, the price per linear foot calculations are based on the previous contract with the preselected utility contractor (PW-415), and unit prices have increase in the new contract (PW-482). Contract PW-415 is expiring and the new contract PW-482 will be utilized for FY2024 projects.

A contingency of 20% is also added to the total cost. This is to account for any unknowns and unexpected situations that come up during any construction project.

Similar capital appropriation requests that were estimated this way were the Flagg Drive Water Main Improvements and the Cedar Street Area Water Main Improvements. Flagg Drive was completed successfully on time and on budget, and materials have been ordered for the Cedar Street project, which will kick off in the 2023 construction season.

This approach to completing water and wastewater utility projects saves the City on engineering and consulting costs by eliminating the need for a design as well as construction oversight. This approach is appropriate for straightforward installation and replacement projects, where designs to address capacity issues or major changes and realignment of utilities is not necessary. The only engineering services required are drafting as-built drawings and tie cards for records; a minimal cost. Construction oversight is performed by the department's Construction Coordinator, who is competent at running a utility construction crew and is familiar with Framingham Construction Standards – holding the contractor to work efficiently and effectively to Framingham's standards.

Projects using the preselected utility contractor have also proven to cost less per linear foot than traditional bid projects. This approach allows the work to be performed on a schedule that is advantageous to the City and often allows utility work to be performed quickly in advance of other roadway improvement projects. The work can be completed on an accelerated schedule compared to traditional design, bid, build projects.

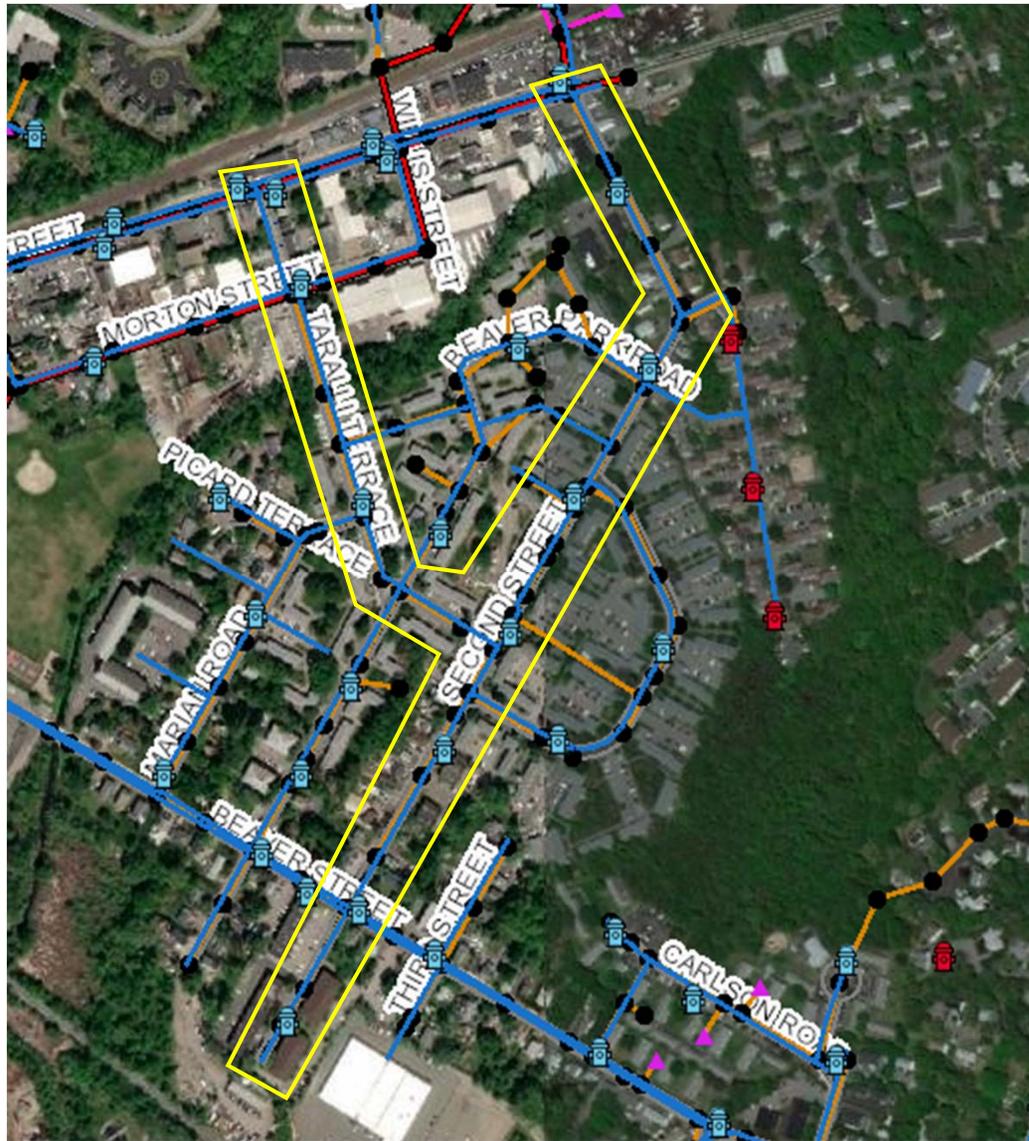
Sincerely,



Stephen J. Leone

cc: Robert Sheldon, Director of Capital Projects
Alex MacKenzie, Assistant Director of Water & Wastewater
Stephanie Tarves, Senior Water & Wastewater Engineer

Second Street Water & Sewer Improvements – FY24 Capital Project Submission



Second Street & Taralli Terrace Water & Sewer Mains

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:** Sewer Defects Repairs Ph 4 – Design & Construction
FY24
PROJECT STATUS: Existing in Edmunds

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**
 This funding request will allow the city to continue addressing high priority sewer main and manhole defects. Whenever possible, pipes will be rehabilitated using cured-in-place pipe (CIPP) or lining techniques. This is more cost effective and doesn't require excavation of the road. When lining is not possible, sections of pipe will be replaced. Manholes can also be lined in many cases but would be replaced when necessary. Framingham has evaluated the condition of approximately 50% of its sewer system within the last decade, with a focus on identifying high priority sewer repairs. These high priority repairs include rectifying defects that contribute to infiltration, as well as spot repairs and rehabilitation that will extend the reliable service life of the sewer assets. Infiltration is clean water, such as groundwater, that enters the sanitary sewer system and, in turn, reduces the capacity for wastewater flow. This capacity reduction can result in system backups and overflows, as well as fee increases from the MWRA, which is based on total wastewater flow from Framingham. The City has over \$1.4 M available in the account with the MWRA through the MWRA's Infiltration/ Inflow (I&I) Local Financial Assistance program, which could be applied in total to this project.

PROJECT ADDITIONS/CHANGES JUSTIFICATION:
 Advanced from FY25. Needed to meet MassDEP I/I requirements.

(3) **PURPOSE OF PROJECT:**

<input type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	400,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	400,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input type="checkbox"/>	level service maintenance	maintains City desired level of service
c. <input type="checkbox"/>	economic development	adds to the City's economic vibrancy
d. <input type="checkbox"/>	service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							

Operating							
(7) PROPOSED FUNDING SOURCE(S):	(10) PROJECT OR EQUIPMENT LOCATION:						
1) Bond	City-wide - see list in supporting documentation						
2) Grants	(11) ASSET TYPE:						
3)							
(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)							
	MWRA I/I assistance account						
(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)							
	Robert A. Lewis						
(9) FINANCE DEPARTMENT NOTES:							

SEWER PIPES I&I CIPP (prices under current contract 2022)

ALL NEW CIPP - I / I LOCATIONS															
LOCATION	LENGTH	EST GPM	PIPE SIZE	DEPTH	NOTES	CIPSR	CIPP	Lat. Re-instate	Grout T&S	Lat. Grout	Clean & TV/Day	Manhole Lining	Date Complete	SSES	Est. Costs
upper joclyn (whole st)	1300	2+brk	8	8	vcp main-8 pipe segents- 16 lats-10 m.h.s from 1000767 to 1000771		\$ 42,000.00	\$ 4,000.00				\$ 12,000.00			\$ 58,000.00
joclyn rd -easment to merlin	1000	5+brk	8	7	vcp main-5 pipe segents-20 lats-5 m.h.s.-from 1000773 to 1000785		\$ 33,000.00	\$ 4,000.00				\$ 6,000.00			\$ 43,000.00
scott dr to brook(easment)	1300	5+ro	10	6	ACP main-6 pipe segments-no lats-7 m.h.s -from 1005885 to 1002362		\$ 44,000.00	na				\$ 8,000.00			\$ 52,000.00
singaltary rd (easment)	1900	4+ro	8	5	ACP main-8 pipe segments-3 lats-9 m.h.s.-from 1001792 TO 1001786		\$ 63,000.00	\$ 500.00				\$ 12,000.00			\$ 75,500.00
hodder rd (easment)	1200	3+brks	8	6	ACP main-5 pipe segents-6 lats-6 m.h.s -from 1001833 TO 1001796		\$ 40,000.00	\$ 1,200.00				\$ 8,000.00			\$ 49,200.00
griffin rd (easment aquaduct)	400	2+brks	10	6	vcp main-2 pipe segments-2 lats-3 .m.h.s.-from 1008288 to 1000378		\$ 14,000.00	\$ 330.00				\$ 2,500.00			\$ 16,830.00
griffin to joseph (easment)	600	8+ brks	10	8	vcp main-3 pipe segments-4 lats- 4 m.h.s -from 1003313 to 1003654		\$ 20,000.00	\$ 800.00				\$ 5,000.00			\$ 25,800.00
hirum (easment #5-#29)	1700	4+ro	8	7	ACPmain-7 pipe segments-3 lats-8 m.h.s.-from 1002200 to 1005831		\$ 57,000.00	\$ 500.00				\$ 9,200.00			\$ 66,700.00
hirum (easmentculdesac to woods)	350	4+Bbrks	8	8	ACP main-2 pipe segments-lats-na-m.h.s.-3-from-1006827 to 1006338		\$ 12,000.00	na				\$ 2,000.00			\$ 14,000.00
janebar to hemingway p/s	1200	8+	8	7	ACP main-6 pipe segents-1 lat-7 m.h.s.-from 1001828 to 1007330		\$ 40,000.00	\$ 165.00				\$ 8,000.00			\$ 48,165.00
mcAdas to westview	700	4=ro	8	7	ACP main-2 pipe segments-2 lats-3 m.h.s.-from 1001999 to 1001600		\$ 24,000.00	\$ 330.00				\$ 3,000.00			\$ 27,330.00
westview to lyman(easent)	900	4+brks	8	8	ACP main-5 pipe segments-1 lat--6 m.h.s.-from 1001600 to 1001582 to 1001577		\$ 30,000.00	\$ 165.00				\$ 10,000.00			\$ 40,165.00
ruthellen to edgell(easment)	1100	4+brks	10	6	ACP main-5 pipe segments-3 lats-6 m.h.s.-from-1001313 to 100589		\$ 37,000.00	\$ 500.00				\$ 6,000.00			\$ 43,500.00
pleasant to masspike (easment)	900	4+brks	12	8	vcp main-3 pipe segments-2 lats-4 m.h.s.- from 1005040 to 1000275 (teple)		\$ 30,000.00	\$ 330.00				\$ 5,000.00			\$ 35,330.00
sunvally @pike to e/bcavatorata	1300	4+brks	12	8	vcp main-7 pipe segments-8 lats-8 m.h.s.-from-1005192 to 1001297		\$ 43,000.00	\$ 1,500.00				\$ 10,000.00			\$ 54,500.00
donovan dr(easment)	1500	6+brks	12	8	ACP main--7 pipe segments-7-lats-8 m.h.s.- from 1007213 to 1001829		\$ 50,000.00	\$ 1,200.00				\$ 15,000.00			\$ 66,200.00
whiting ave (easment)	600	4+brks	8	7	ACP main-2 pipe segments-2-lats-3 m.h.s.-from-1002287 to 1000331		\$ 20,000.00	\$ 330.00				\$ 2,500.00			\$ 22,830.00
pleasantview to bosworth(esmt)	550	2+brks	8	6	ACP main-3 pipe segments-3 lats -4 m.h.s.-from 1001069 to 1000808		\$ 20,000.00	\$ 500.00				\$ 5,000.00			\$ 25,500.00
union ave terr-(whole st)	450	brks	15	8	vcp main-3 pipe segments-9 lats -4 m.h.s.-from 1008342 to 1000117		\$ 26,000.00	\$ 1,500.00				\$ 3,000.00			\$ 30,500.00
rte 9 (natick line crossover)	140	2+brks	10	7	vcp main-1 pipe segent-no lats-2 m.h.s.-from 1005268 to 1005427		\$ 5,000.00	na				\$ 3,000.00			\$ 8,000.00
beaver st leland to bridge	2400	3+brks	8	8	vcp main-14 pipe segments-45 lats-15 m.h.s.-from 1005813 to 1006517		\$ 80,000.00	\$ 900.00							\$ 80,900.00
beaver st @ bridge to park lot	400	2+brks	10	7	vcp main-2 pipe segments-4 lats-3 m.h.s.-from 1006208 to 1006205		\$ 14,000.00	\$ 800.00				\$ 4,000.00			\$ 18,800.00
hartford st (top section)	500	3+brks	8	7	vcp main-3 pipe segments-11 lats-4 m.h.s.-from 1004719 to 1007890		\$ 18,000.00	\$ 3,000.00				\$ 6,000.00			\$ 27,000.00
hartford st (middle section)	1200	3+brks	8	7	vcp main-8 pipe segments-30 lats -9 m.h.s.-from-1004707 to 1000442		\$ 41,000.00	\$ 6,000.00				\$ 12,000.00			\$ 59,000.00
hartford st (bottom section)	250	3+brks	8	8	vcp main-1 pipe segment-5 lats-2 .m.h.s.-from 1004706 to 1005921		\$ 9,000.00	\$ 1,000.00				\$ 2,000.00			\$ 12,000.00
rte 9 @lockland to frazer(esmnt)	1000	3+brks	8	9	vcp main-4 pipe segments-3 lats-5 m.h.s.-from 1005465 to 1003325		\$ 34,000.00	\$ 500.00				\$ 8,000.00			\$ 42,500.00
lockland @ d/e m.h to rte 9w/b	1500	3+brks	8	8	vcp main-5 pipe segments-40 lats-6 m.h.s.-from 1001187 to 1005466		\$ 50,000.00	\$ 8,000.00				\$ 12,000.00			\$ 70,000.00
st bridgets acces rd to rte 9 bridge	1100	5+brks	12	8	vcp main-4 pipe segments-9 lats-5 m.h.s.-from-1005564 -1005563 +1000136 to 1000137		\$ 40,000.00	\$ 2,000.00				\$ 9,000.00			\$ 51,000.00
rte 9@rte30 w/b to beacon st	1700	3+brks	8	7	vcp main-8 pipe segments-20 lats-9 m.h.s.-from 1004656 to 1005447		\$ 58,000.00	\$ 4,000.00				\$ 12,000.00			\$ 74,000.00
rte 30@126 d/e m.h to burgerking	950	5+brks	8	7	ACP main-3 piipe segments-10 lats-3 m.h.s.-from-#209 rte 30 to 1006649(top m.h not on vvieworks		\$ 31,000.00	\$ 2,000.00				\$ 3,500.00			\$ 36,500.00

SEWER PIPES I&I CIPP (prices under current contract 2022)

ALL NEW CIPP - I/I LOCATIONS															
LOCATION	LENGTH	EST GPM	PIPE SIZE	DEPTH	NOTES	CIPSR	CIPP	Lat. Re-instate	Grout T&S	Lat. Grout	Clean & TV/Day	Manhole Lining	Date Complete	SSES	Est. Costs
rte 30 @259 to masspike trunk line	4300	5+brks	12	8	ACP main-18 pipe segents-15 lats-19 m.h.s-from 1006649 to 1000076		\$ 142,000.00	\$ 3,000.00				\$ 27,000.00			\$ 172,000.00
arlene rd(emily to ocp)	1100	3+brks	8	6	ACPmain-4 pipe segments-11 lats-6 m.h.s-from-1006164 to 1005927		\$ 37,000.00	\$ 2,000.00				\$ 6,000.00			\$ 45,000.00
green leaf cir+easentto burr	1900	3+brks		8	ACP main-8 pipe segments-25 lats-9 m.h.s-1004625 to1005928(burr st)		\$ 64,000.00	\$ 4,500.00				\$ 11,000.00			\$ 79,500.00
rte9 @exit 12 to gates p/s(easmnt	2400	4+brks	10	8	ACP main-11 pipe segments-4 lats-13 m.h.s-from-1005161 to 1007532		\$ 81,000.00	\$ 800.00				\$ 15,000.00			\$ 96,800.00
phippis st to rr tracks(easent)	950	3+brks	10	6	vcp main-4 pipe segments-8 lats-5 m.h.s-from-1004287 to 1004298		\$ 32,000.00	\$ 1,500.00				\$ 8,000.00			\$ 41,500.00
long ave to dudley rd (easment)	2000	5+brks	8	7	ACP+VCP main-9 pipe segments-no lats-10 m.h.s-from 1001756 to 1006889-(there is8+12 in main		\$ 67,000.00	na				\$ 10,000.00			\$ 77,000.00
bantry to lohnes(easment)	700	4+brks	10	7	vcp main-4 pipe segments-4 lats-6 m.h.s-from 1000800 to 1000916		\$ 24,000.00	\$ 1,000.00				\$ 6,500.00			\$ 31,500.00
leornard to indian head(easment)	700	6+brks	10	7	ACP + VCP main-2 pipe segments-3 lats-3 .h.s-1008228 to 1001142		\$ 25,000.00	\$ 500.00				\$ 3,000.00			\$ 28,500.00
indian head to highgate (easment)	600	6+brks	10	7	ACP main-3 pipe segments-5 lats-4 m.h.s-1001142 to 1008885		\$ 21,000.00	\$ 1,000.00				\$ 5,000.00			\$ 27,000.00
waverly st (wilson to palmeto)	1200	4+brks	8	15	vcp+ci main-7 pipe segments-10 lats-10 m.h.s.-from 1005813 to 1004809		\$ 41,000.00	\$ 2,000.00				\$ 15,000.00			\$ 58,000.00
waverly st(#866 to att easent)	400	4+brks	8	15	vcp main--2 pipe segments-9 lats-3 m.h.s-from-1004921 to 1004810		\$ 14,000.00	\$ 2,000.00				\$ 4,000.00			\$ 20,000.00
waverly st @#790 to daytona)	700	3+brks	8	7	vcp main-4 pipe segents-11 lats-5 m.h.s-from 1006842 to 1004810		\$ 25,000.00	\$ 2,000.00				\$ 5,800.00			\$ 32,800.00
waverly st at@t easment	250	3+brks	10	8	vcp main-2 pipe segents -no lats-3 .h.s-from 1004389 to 1004388		\$ 9,000.00	na				\$ 3,000.00			\$ 12,000.00
larrabee to waverly st (whole st)	800	4+brks	8	6	vcp main-3 pipe segments-16 lats-4 m.h.s-from 1002473 to 1004923		\$ 28,000.00	\$ 3,500.00				\$ 5,000.00			\$ 36,500.00
waverly st @winthrop to bethany	370	3+brks	8	10	vcp main-1 pipe segment-8 lats-2 m.h.s-fro 1002477 to 1004811		\$ 13,000.00	\$ 1,400.00				\$ 4,000.00			\$ 18,400.00
waverly st @monick to bethany	500	3+brks	10	10	vcp main-3 pipe segents-5 lats-4 m.h.s-from 1004932 to 1004935		\$ 17,000.00	\$ 1,000.00				\$ 10,000.00			\$ 28,000.00
waverly st-bethany to mellon	1000	4+brks	12	8	vcp main-5 pipe segments-14 lats-6 m.h.s-from 1005795 to 1007721		\$ 35,000.00	\$ 3,000.00				\$ 10,000.00			\$ 48,000.00
waverly st(mellon to casey crt)	1100	4+brks	15	8	vcp+ci main-4 pipe segments-22 lats-5 m.h.s. from-1007721 to 1005366		\$ 50,000.00	\$ 4,000.00				\$ 7,000.00			\$ 74,000.00
CEDAR ST	1200	3+brks	6+8	3 to 10	vcp main- 6 pipe segments 1002526 to 1002530 then1002533 to 1005983-33 lats-3 m.hs		\$ 41,000.00	\$ 5,600.00				\$ 3,000.00			\$ 47,600.00
LIVOLI RD	1300	4+brks	8	9	ACP main-6 pipe segmentsfrom 1002006 to 1001810 -16 lats -7 m.h.s		\$ 44,000.00	\$ 4,000.00				\$ 10,000.00			\$ 58,000.00
CYPRESS ST	625	10+brks	8	5	ACP main -3 pipe segments 1002520 to 1007511 -6 lats 4 m.h.s-30 vf -grouting (H.P)		\$ 22,000.00	\$ 1,000.00	2000			\$ 4,000.00			\$ 30,000.00

FY2024 Construction Cost	\$ 2,368,250.00
FY2024 DPW Costs	\$ 80,000.00
TOTAL APPROPRIATION REQUEST	\$ 400,000.00

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) PROJECT NAME:
PROJECT STATUS:

(2) PROJECT DESCRIPTION AND JUSTIFICATION:
PROJECT ADDITIONS/CHANGES JUSTIFICATION:

(3) PURPOSE OF PROJECT:

- Replace existing infrastructure
- Replace existing capital asset
- Replace existing vehicle
- Replace equipment
- New infrastructure
- New capital asset
- New vehicle
- New equipment
- Strategic/Comprehensive/Master plan

(4) BUDGET REQUEST BY YEAR:

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction						
e. Equipment/Vehicles						
f. Contingency						
g. Other	375,000	375,000	375,000	375,000	375,000	
TOTAL	375,000	375,000	375,000	375,000	375,000	-

(5) PRIORITY:

- a. **health and safety** safety concern, hazardous condition, agency compliance, non-functional, etc
- b. **level service maintenance** maintains City desired level of service
- c. **economic development** adds to the City's economic vibrancy
- d. **service improvement** new or improved service to meet demand

(6) EFFECTS ON ANNUAL OPERATING BUDGET:

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							
Operating							

(7) PROPOSED FUNDING SOURCE(S):

- 1)
- 2)
- 3)

(10) PROJECT OR EQUIPMENT LOCATION:
(11) ASSET TYPE:

(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)

(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)

(9) FINANCE DEPARTMENT NOTES:

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**
PROJECT STATUS:

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**

PROJECT ADDITIONS/CHANGES JUSTIFICATION:

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input checked="" type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design	580,000					
d. Construction						
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	580,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input type="checkbox"/>	level service maintenance	maintains City desired level of service
c. <input type="checkbox"/>	economic development	adds to the City's economic vibrancy
d. <input type="checkbox"/>	service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

-
-
-

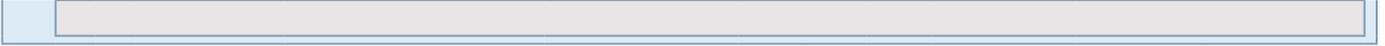
(10) **PROJECT OR EQUIPMENT LOCATION:**

(11) **ASSET TYPE:**

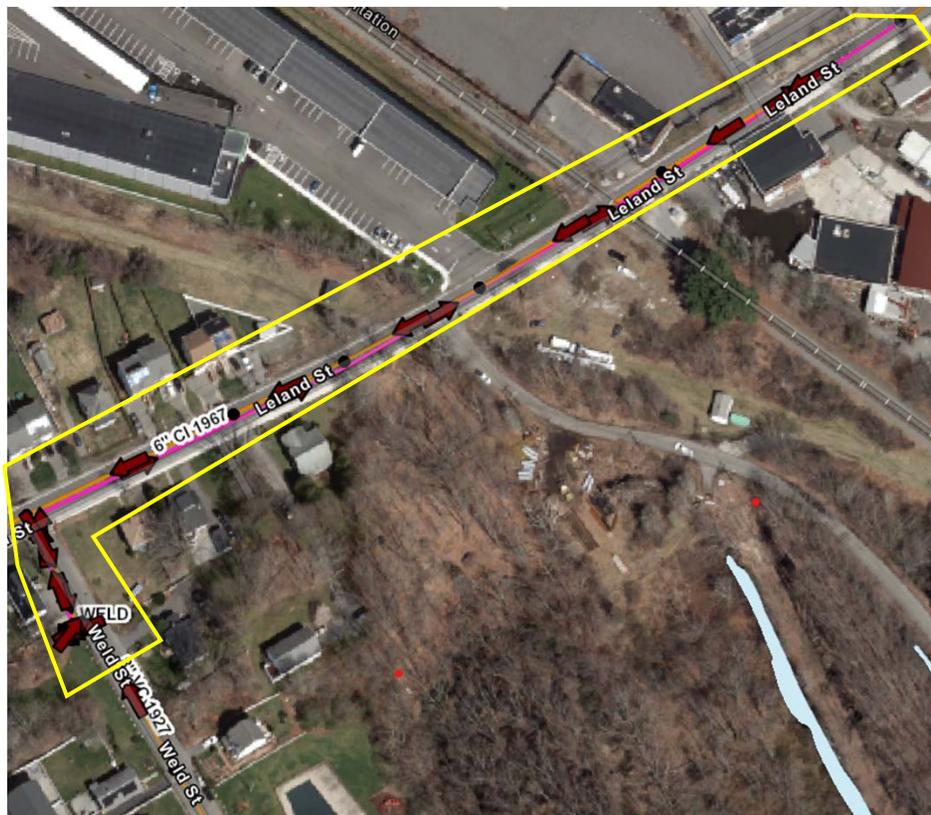
(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**



Weld Street & Victor Road Sewer Pump Stations – FY24 Capital Project Submission



Weld St Station location and force main route



Victor Rd Station location and force main route

Weld Street & Victor Road Sewer Pump Stations – FY24 Capital Project Submission



Weld St Station – Exterior corrosion



Weld St Station – Pumps in poor condition



Weld St Station – Security fence compromised



Weld St Station – Chronic grease buildup in wet well

Weld Street & Victor Road Sewer Pump Stations – FY24 Capital Project Submission



Victor Rd Station – Problematic accessibility & hazardous confined space entry



Victor Rd Station – Hazardous electrical service requiring replacement



Victor Rd Station – Air compressors (outdated technology) & aged controls

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:** Walnut St Sewer Force Main and sewer gravity to EFSIP
(Grant St) Design FY24
PROJECT STATUS: Existing in Edmunds

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**
 The study and design of new force main from the Worcester Road Sewer Pump Station will lead to a cost-effective means of rerouting the discharge away from the western Farm Pond Interceptor to the eastern EFSIP interceptor while also reducing the risk of failure of the existing main. The current route has two major disadvantages: it takes up capacity in the Farm Pond Interceptor, and its location near its terminus on Mt. Wayte Avenue is dangerously close to the newly constructed Buckley Apartment buildings. Having added capacity in the Farm Pond Interceptor will help minimize limitations to growth for the Tech Park area and vicinity. Upgrading the pipe and relocating it to a route that is away from buildings will substantially reduce risk to the City, its residents, and businesses. As demonstrated by the pipe break in the spring of 2022 at a location about 200 feet south of the pump station, the main is indeed vulnerable to failure.
PROJECT ADDITIONS/CHANGES JUSTIFICATION:
 Need to do the design first. Construction to be in later year.

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input checked="" type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design	463,000					
d. Construction						
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	463,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/> health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input type="checkbox"/> level service maintenance	maintains City desired level of service
c. <input type="checkbox"/> economic development	adds to the City's economic vibrancy
d. <input type="checkbox"/> service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- Bond**
-
-

(10) **PROJECT OR EQUIPMENT LOCATION:**

 (11) **ASSET TYPE:**

(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)

(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)

Robert A. Lewis

(9) FINANCE DEPARTMENT NOTES:

Walnut Street Sewer Force Main and Gravity Sewer Rerouting to East Framingham Sewer Interceptor

Rerouting the discharge from the Worcester Road Sewer Pump Station to the east will increase the capacity of the Farm Pond Interceptor by changing the discharge point to the East Framingham Sewer Interceptor, which has more than enough capacity.



Receiving manhole at East Framingham Sewer Interceptor for rerouted Worcester Road Sewer Pump Station discharge

-  Worcester Road Sewer Pump Station Catchment Area
-  Farm Pond Catchment Area, Excluding Worcester Road Sewer Pump Station Catchment Area

**CITY OF FRAMINGHAM
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2024-2033 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**
PROJECT STATUS:

<p>(2) PROJECT DESCRIPTION AND JUSTIFICATION:</p> <div style="border: 1px solid black; padding: 5px;"> <p>This project will replace and upgrade approximately 1,600 feet of old clay sewer on Worcester Road (Route 9) Westbound between Concord Street and the Caldor Road, complete with manholes and services. Some segments between manholes are planned to be lined, provided that the condition of the pipe does not further deteriorate prior to execution of the construction. The existing infrastructure is in poor condition and, being 70 to 100 years old, has exceeded its service life. As a result, it poses a significant risk of failure and is in need of increased DPW resources to maintain service. This sewer infrastructure serves major portions of Framingham's retail businesses, where emergency repairs and traffic disruption are especially expensive and disruptive because of its location within State road limits. Increasing the size of sewers will enable the City to manage future flows. New pipes and manholes will reduce unwanted inflow/infiltration, improve reliability, reduce maintenance costs and demands on DPW resources, and reduce the potential and frequency of sewer service backups. This project is also an opportunity to address sewer and water needs together as part of a single construction package, resulting in reduced impacts to the businesses in the area and those who travel on this busy roadway.</p> </div> <p>PROJECT ADDITIONS/CHANGES JUSTIFICATION: <input type="text" value="Recommend moving forward from FY2026."/></p>	<p>(3) PURPOSE OF PROJECT:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;"><input checked="" type="checkbox"/></td><td>Replace existing infrastructure</td></tr> <tr><td style="text-align: center;"><input checked="" type="checkbox"/></td><td>Replace existing capital asset</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>Replace existing vehicle</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>Replace equipment</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>New infrastructure</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>New capital asset</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>New vehicle</td></tr> <tr><td style="text-align: center;"><input type="checkbox"/></td><td>New equipment</td></tr> <tr><td style="text-align: center;"><input checked="" type="checkbox"/></td><td>Strategic/Comprehensive/Master plan</td></tr> </table>	<input checked="" type="checkbox"/>	Replace existing infrastructure	<input checked="" type="checkbox"/>	Replace existing capital asset	<input type="checkbox"/>	Replace existing vehicle	<input type="checkbox"/>	Replace equipment	<input type="checkbox"/>	New infrastructure	<input type="checkbox"/>	New capital asset	<input type="checkbox"/>	New vehicle	<input type="checkbox"/>	New equipment	<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan
<input checked="" type="checkbox"/>	Replace existing infrastructure																		
<input checked="" type="checkbox"/>	Replace existing capital asset																		
<input type="checkbox"/>	Replace existing vehicle																		
<input type="checkbox"/>	Replace equipment																		
<input type="checkbox"/>	New infrastructure																		
<input type="checkbox"/>	New capital asset																		
<input type="checkbox"/>	New vehicle																		
<input type="checkbox"/>	New equipment																		
<input checked="" type="checkbox"/>	Strategic/Comprehensive/Master plan																		

(4) **BUDGET REQUEST BY YEAR:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29-33
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	3,732,700					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
TOTAL	3,732,700	-	-	-	-	-

(5) **PRIORITY:**

a.	health and safety	safety concern, hazardous condition, agency compliance, non-functional, etc
b.	level service maintenance	maintains City desired level of service
c.	economic development	adds to the City's economic vibrancy
d.	service improvement	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 24	FY 25	FY 26	FY 27	FY 28	FY29	YEARS 29-33
Personnel							

Operating							
(7) PROPOSED FUNDING SOURCE(S):				(10) PROJECT OR EQUIPMENT LOCATION:			
1) Bond				Worcester Road bewteen Concord Street and Caldor Road			
2)				(11) ASSET TYPE:			
3)							
(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)							
(8) PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)	Robert A. Lewis						
(9) FINANCE DEPARTMENT NOTES:							

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
City of Framingham, MA
254-1904

100% Design Opinion of Probable Construction Cost - Water and Sewer
Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
Construction Midpoint - December 2022

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$284,546.50	\$284,546.50
2	Preconstruction Video and Photographs	LS	1	\$32,000.00	\$32,000.00
3	WATER MAINS				
3a	12-Inch DI Water Main	LF	15	\$380.00	\$5,700.00
3b	8-Inch DI Water Main	LF	2630	\$340.00	\$894,200.00
3c	6-Inch DI Water Main	LF	100	\$330.00	\$33,000.00
4	GATE VALVES AND BOXES				
4a	8-Inch Gate Valves and Boxes	EA	19	\$3,250.00	\$61,750.00
4b	6-Inch Gate Valves and Boxes	EA	6	\$1,850.00	\$11,100.00
5	Hydrant Assemblies	EA	5	\$13,250.00	\$66,250.00
6	WATER SERVICE TAPS AND CURB BOXES				
6a	1-Inch Water Service Taps and Curb Boxes	EA	4	\$1,250.00	\$5,000.00
6b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,700.00	\$3,400.00
6c	2-Inch Water Service Taps and Curb Boxes	EA	4	\$1,750.00	\$7,000.00
7	WATER SERVICES				
7a	1-Inch Water Services	LF	75	\$140.00	\$10,500.00
7b	1.5-Inch Water Services	LF	40	\$150.00	\$6,000.00
7c	2-Inch Water Services	LF	75	\$160.00	\$12,000.00
8	FIRE SERVICES				
8a	4-Inch Fire Service Connection	LF	25	\$250.00	\$6,250.00
8b	6-Inch Fire Service Connection	LF	65	\$175.00	\$11,375.00
8c	8-Inch Fire Service Connection	LF	20	\$300.00	\$6,000.00
9	TEMPORARY BYPASS SYSTEMS				
9a	6-Inch Temporary Bypass Piping	LF	1220	\$160.00	\$195,200.00
9b	8-Inch Temporary Bypass Piping	LF	2340	\$170.00	\$397,800.00
10	Additional Fittings	LB	1500	\$5.50	\$8,250.00
11	GRAVITY SEWERS				
11a	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	1070	\$465.00	\$497,550.00
11b	8-Inch SDR 21 PVC Gravity Sewer Pipe	LF	195	\$475.00	\$92,625.00
11c	10-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	185	\$315.00	\$58,275.00
11d	8-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	140	\$305.00	\$42,700.00
12	SEWER SERVICE CONNECTIONS				
12a	8-inch PVC Gravity Sewer Service	LF	30	\$630.00	\$18,900.00
12b	6-Inch PVC Gravity Sewer Service (Westbound Side)	LF	205	\$610.00	\$125,050.00
12c	6-Inch Epoxy Lined DI Sewer Service (Westbound Side)	LF	65	\$610.00	\$39,650.00
13	SEWER MANHOLES				
13a	4-foot Diameter Sewer Manhole	VF	50	\$1,050.00	\$52,500.00
13b	5-foot Diameter Sewer Manhole	VF	24	\$1,260.00	\$30,240.00
13c	Sewer Manhole Frame and Cover	EA	9	\$1,000.00	\$9,000.00
13d	Rebuild Existing Sewer Manhole Invert	EA	1	\$2,210.00	\$2,210.00
13e	Remove and Dispose of Existing Sewer Manhole	EA	1	\$600.00	\$600.00
13f	Epoxy Line Sewer Manhole	VF	10	\$630.00	\$6,300.00
13g	Cement Line Existing Sewer Manhole	VF	5	\$315.00	\$1,575.00
14	STORMWATER				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	2000	\$10.50	\$21,000.00
15	CONTAMINATED MATERIAL MANAGEMENT				
15a	AC Pipe Removal and Disposal	LF	20	\$60.00	\$1,200.00
15b	Management and Disposal of Crushed AC Pipe and AC Impacted soils	CY	100	\$240.00	\$24,000.00
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	1	\$130,000.00	\$130,000.00
15d	Soil Management Plans	LS	1	\$130,000.00	\$130,000.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	4000	\$21.00	\$84,000.00
15f	Removal and Disposal of Impacted Materials	TON	1500	\$27.00	\$40,500.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	500	\$50.00	\$25,000.00
15h	Removal and Disposal of Lined Landfill Materials	TON	500	\$55.00	\$27,500.00
15i	Treatment of Contaminated Groundwater	ALLOW	1	\$52,500.00	\$52,500.00
16	REMOVAL/ABANDONMENT OF UTILITIES				
16a	Abandon Existing Sewer/Water Main with LDCC	CY	10	\$3,150.00	\$31,500.00
16b	Abandon Existing Structure in Place with CDF	CY	150	\$125.00	\$18,750.00
16c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	15	\$2,100.00	\$31,500.00
16d	Cut, Cap, Abandon Sewer Lateral in Place	EA	26	\$1,050.00	\$27,300.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
 City of Framingham, MA
 254-1904

100% Design Opinion of Probable Construction Cost - Water and Sewer
 Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
 Construction Midpoint - December 2022

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
17	EARTH EXCAVATION				
17a	Exploratory Excavation	CY	265	\$35.00	\$9,275.00
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	500	\$8.50	\$4,250.00
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	330	\$340.00	\$112,200.00
17d	Rock Excavation	CY	250	\$70.00	\$17,500.00
18	ADDITIONAL MATERIALS				
18a	Select Fill	CY	800	\$8.00	\$6,400.00
18b	Special Borrow M1.02.0	CY	5000	\$10.00	\$50,000.00
18c	1500 PSI Concrete	CY	200	\$30.00	\$6,000.00
19	PAVEMENT				
19a	4-Inch Temporary Trench Pavement	SY	2800	\$40.00	\$112,000.00
19b	12-Inch Intermediate Trench Pavement	SY	5000	\$90.00	\$450,000.00
19c	2-Inch Milling	SY	7250	\$9.00	\$65,250.00
19d	2-Inch Overlay	SY	7250	\$25.00	\$181,250.00
20	RESTORATION				
20a	Bituminous Concrete Sidewalk	SY	135	\$16.00	\$2,160.00
20b	Portland Cement Concrete Sidewalk	SY	235	\$67.00	\$15,745.00
20c	Guard Rail	LF	325	\$210.00	\$68,250.00
20d	Miscellaneous Bituminous Concrete	TONS	500	\$60.00	\$30,000.00
20e	Remove and Reset Granite Curb	LF	640	\$75.00	\$48,000.00
20f	Restoration of Growth	SY	100	\$110.00	\$11,000.00
21	Uniformed Police Officer Allowance	ALLOW	1	\$550,000.00	\$550,000.00
22	Traffic Management	LS	1	\$186,000.00	\$186,000.00
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	80	\$240.00	\$19,200.00
24	Utility Support and Coordination	ALLOW	1	\$210,000.00	\$210,000.00
25	Abutter Relocation	ALLOW	1	\$10,500.00	\$10,500.00
26	For Furnishing and Placing Environmental Protection	LS	1	\$26,250.00	\$26,250.00
27	Miscellaneous Work and Cleanup	LS	1	\$105,000.00	\$105,000.00
Subtotal					\$5,975,476.50
Escalation to Midpoint (12%)					\$717,057.18
Contingency (10%)					\$669,253.37
Engineering Services					\$750,000.00
Total (Rounded)					\$8,112,000.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
City of Framingham, MA
254-1904

100% Design Revised Opinion of Probable Construction Cost - Water
Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
Construction Midpoint - December 2022

Item No.	Description	Units	Water Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$163,343.13	\$163,343.13
2	Preconstruction Video and Photographs	LS	0.5	\$32,000.00	\$16,000.00
3	WATER MAINS				
3a	12-Inch DI Water Main	LF	15	\$380.00	\$5,700.00
3b	8-Inch DI Water Main	LF	2630	\$340.00	\$894,200.00
3c	6-Inch DI Water Main	LF	100	\$330.00	\$33,000.00
4	GATE VALVES AND BOXES				
4a	8-Inch Gate Valves and Boxes	EA	19	\$3,250.00	\$61,750.00
4b	6-Inch Gate Valves and Boxes	EA	6	\$1,850.00	\$11,100.00
5	Hydrant Assemblies	EA	5	\$13,250.00	\$66,250.00
6	WATER SERVICE TAPS AND CURB BOXES				
6a	1-Inch Water Service Taps and Curb Boxes	EA	4	\$1,250.00	\$5,000.00
6b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,700.00	\$3,400.00
6c	2-Inch Water Service Taps and Curb Boxes	EA	4	\$1,750.00	\$7,000.00
7	WATER SERVICES				
7a	1-Inch Water Services	LF	75	\$140.00	\$10,500.00
7b	1.5-Inch Water Services	LF	40	\$150.00	\$6,000.00
7c	2-Inch Water Services	LF	75	\$160.00	\$12,000.00
8	FIRE SERVICES				
8a	4-Inch Fire Service Connection	LF	25	\$250.00	\$6,250.00
8b	6-Inch Fire Service Connection	LF	65	\$175.00	\$11,375.00
8c	8-Inch Fire Service Connection	LF	20	\$300.00	\$6,000.00
9	TEMPORARY BYPASS SYSTEMS				
9a	6-Inch Temporary Bypass Piping	LF	1220	\$160.00	\$195,200.00
9b	8-Inch Temporary Bypass Piping	LF	2340	\$170.00	\$397,800.00
10	Additional Fittings	LB	1500	\$5.50	\$8,250.00
14	STORMWATER				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	1000	\$10.50	\$10,500.00
15	CONTAMINATED MATERIAL MANAGEMENT				
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$130,000.00	\$65,000.00
15d	Soil Management Plans	LS	0.5	\$130,000.00	\$65,000.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	2000	\$21.00	\$42,000.00
15f	Removal and Disposal of Impacted Materials	TON	750	\$27.00	\$20,250.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	250	\$50.00	\$12,500.00
15h	Removal and Disposal of Lined Landfill Materials	TON	250	\$55.00	\$13,750.00
15i	Treatment of Contaminated Groundwater	ALLOW	0.5	\$52,500.00	\$26,250.00
16	REMOVAL/ABANDONMENT OF UTILITIES				
16a	Abandon Existing Sewer/Water Main with LDCC	CY	10	\$3,150.00	\$31,500.00
17	EARTH EXCAVATION				
17a	Exploratory Excavation	CY	132.5	\$35.00	\$4,637.50
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	250	\$8.50	\$2,125.00
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	165	\$340.00	\$56,100.00
17d	Rock Excavation	CY	125	\$70.00	\$8,750.00
18	ADDITIONAL MATERIALS				
18a	Select Fill	CY	400	\$8.00	\$3,200.00
18b	Special Borrow M1.02.0	CY	2500	\$10.00	\$25,000.00
18c	1500 PSI Concrete	CY	100	\$30.00	\$3,000.00
19	PAVEMENT				
19a	4-Inch Temporary Trench Pavement	SY	1340	\$40.00	\$53,600.00
19b	12-Inch Intermediate Trench Pavement	SY	2675	\$90.00	\$240,750.00
19c	2-Inch Milling	SY	3625	\$9.00	\$32,625.00
19d	2-Inch Overlay	SY	3625	\$25.00	\$90,625.00
20	RESTORATION				
20a	Bituminous Concrete Sidewalk	SY	67.5	\$16.00	\$1,080.00
20b	Portland Cement Concrete Sidewalk	SY	235	\$67.00	\$15,745.00
20c	Guard Rail	LF	325	\$210.00	\$68,250.00
20d	Miscellaneous Bituminous Concrete	TONS	250	\$60.00	\$15,000.00
20e	Remove and Reset Granite Curb	LF	585	\$75.00	\$43,875.00
20f	Restoration of Growth	SY	50	\$110.00	\$5,500.00
21	Uniformed Police Officer Allowance	ALLOW	0.5	\$550,000.00	\$275,000.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
 City of Framingham, MA
 254-1904

100% Design Revised Opinion of Probable Construction Cost - Water
 Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
 Construction Midpoint - December 2022

Item No.	Description	Units	Water Quantities	Unit Price	Extended Amount
22	Traffic Management	LS	0.5	\$186,000.00	\$93,000.00
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	40	\$240.00	\$9,600.00
24	Utility Support and Coordination	ALLOW	0.5	\$210,000.00	\$105,000.00
25	Abutter Relocation	ALLOW	0.5	\$10,500.00	\$5,250.00
26	For Furnishing and Placing Environmental Protection	LS	0.5	\$26,250.00	\$13,125.00
27	Miscellaneous Work and Cleanup	LS	0.5	\$105,000.00	\$52,500.00
Subtotal					\$3,430,205.63
Escalation to Midpoint (12%)					\$411,624.68
Contingency (10%)					\$384,183.03
Engineering Services					\$375,000.00
Total (Rounded)					\$4,601,000.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
 City of Framingham, MA
 254-1904

100% Design Revised Opinion of Probable Construction Cost - Sewer
 Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
 Construction Midpoint - December 2022

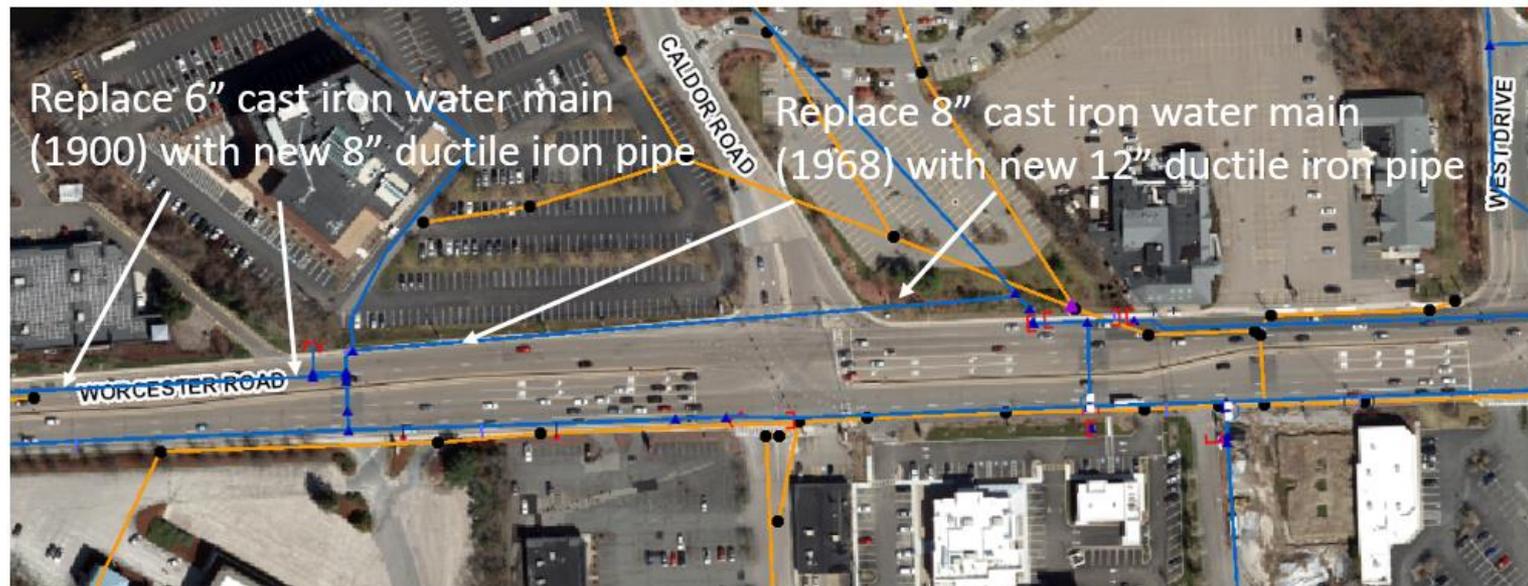
Item No.	Description	Units	Sewer Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$121,203.38	\$121,203.38
2	Preconstruction Video and Photographs	LS	0.5	\$32,000.00	\$16,000.00
11	GRAVITY SEWERS				
11a	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	1070	\$465.00	\$497,550.00
11b	8-Inch SDR 21 PVC Gravity Sewer Pipe	LF	195	\$475.00	\$92,625.00
11c	10-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	185	\$315.00	\$58,275.00
11d	8-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	140	\$305.00	\$42,700.00
12	SEWER SERVICE CONNECTIONS				
12a	8-inch PVC Gravity Sewer Service	LF	30	\$630.00	\$18,900.00
12b	6-Inch PVC Gravity Sewer Service (Westbound Side)	LF	205	\$610.00	\$125,050.00
12c	6-Inch Epoxy Lined DI Sewer Service (Westbound Side)	LF	65	\$610.00	\$39,650.00
13	SEWER MANHOLES				
13a	4-foot Diameter Sewer Manhole	VF	50	\$1,050.00	\$52,500.00
13b	5-foot Diameter Sewer Manhole	VF	24	\$1,260.00	\$30,240.00
13c	Sewer Manhole Frame and Cover	EA	9	\$1,000.00	\$9,000.00
13d	Rebuild Existing Sewer Manhole Invert	EA	1	\$2,210.00	\$2,210.00
13e	Remove and Dispose of Existing Sewer Manhole	EA	1	\$600.00	\$600.00
13f	Epoxy Line Sewer Manhole	VF	10	\$630.00	\$6,300.00
13g	Cement Line Existing Sewer Manhole	VF	5	\$315.00	\$1,575.00
14	STORMWATER				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	1000	\$10.50	\$10,500.00
15	CONTAMINATED MATERIAL MANAGEMENT				
15a	AC Pipe Removal and Disposal	LF	20	\$60.00	\$1,200.00
15b	Management and Disposal of Crushed AC Pipe and AC Impacted soils	CY	100	\$240.00	\$24,000.00
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$130,000.00	\$65,000.00
15d	Soil Management Plans	LS	0.5	\$130,000.00	\$65,000.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	2000	\$21.00	\$42,000.00
15f	Removal and Disposal of Impacted Materials	TON	750	\$27.00	\$20,250.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	250	\$50.00	\$12,500.00
15h	Removal and Disposal of Lined Landfill Materials	TON	250	\$55.00	\$13,750.00
15i	Treatment of Contaminated Groundwater	ALLOW	0.5	\$52,500.00	\$26,250.00
16	REMOVAL/ABANDONMENT OF UTILITIES				
16b	Abandon Existing Structure in Place with CDF	CY	150	\$125.00	\$18,750.00
16c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	15	\$2,100.00	\$31,500.00
16d	Cut, Cap, Abandon Sewer Lateral in Place	EA	26	\$1,050.00	\$27,300.00
17	EARTH EXCAVATION				
17a	Exploratory Excavation	CY	132.5	\$35.00	\$4,637.50
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	250	\$8.50	\$2,125.00
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	165	\$340.00	\$56,100.00
17d	Rock Excavation	CY	125	\$70.00	\$8,750.00
18	ADDITIONAL MATERIALS				
18a	Select Fill	CY	400	\$8.00	\$3,200.00
18b	Special Borrow M1.02.0	CY	2500	\$10.00	\$25,000.00
18c	1500 PSI Concrete	CY	100	\$30.00	\$3,000.00
19	PAVEMENT				
19a	4-Inch Temporary Trench Pavement	SY	1460	\$40.00	\$58,400.00
19b	12-Inch Intermediate Trench Pavement	SY	2325	\$90.00	\$209,250.00
19c	2-Inch Milling	SY	3625	\$9.00	\$32,625.00
19d	2-Inch Overlay	SY	3625	\$25.00	\$90,625.00
20	RESTORATION				
20a	Bituminous Concrete Sidewalk	SY	67.5	\$16.00	\$1,080.00
20d	Miscellaneous Bituminous Concrete	TONS	250	\$60.00	\$15,000.00
20e	Remove and Reset Granite Curb	LF	55	\$75.00	\$4,125.00
20f	Restoration of Growth	SY	50	\$110.00	\$5,500.00
21	Uniformed Police Officer Allowance	ALLOW	0.5	\$550,000.00	\$275,000.00
22	Traffic Management	LS	0.5	\$186,000.00	\$93,000.00
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	40	\$240.00	\$9,600.00
24	Utility Support and Coordination	ALLOW	0.5	\$210,000.00	\$105,000.00
25	Abutter Relocation	ALLOW	0.5	\$10,500.00	\$5,250.00
26	For Furnishing and Placing Environmental Protection	LS	0.5	\$26,250.00	\$13,125.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound
 City of Framingham, MA
 254-1904

100% Design Revised Opinion of Probable Construction Cost - Sewer
 Revision No. 1: Delete Work between No. 95 Worcester Road and West Drive and Eastbound Sewer Lateral Work
 Construction Midpoint - December 2022

Item No.	Description	Units	Sewer Quantities	Unit Price	Extended Amount
27	Miscellaneous Work and Cleanup	LS	0.5	\$105,000.00	\$52,500.00
	Subtotal				\$2,545,270.88
	Escalation to Midpoint (12%)				\$305,432.51
	Contingency (10%)				\$285,070.34
	Engineering Services				\$375,000.00
	Total (Rounded)				\$3,511,000.00

Worcester Road Water and Sewer Improvements Phase II (Westbound)



Installing new water and sewer infrastructure will substantially reduce potential of failure, improve reliability, and increase capacity for area businesses and residents.