

FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM
DEPARTMENT OF PUBLIC WORKS

FISCAL YEAR: 2021

10/31/2019

DEPARTMENT: DPW Administration

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Main Street Decorative Street Light Upgrades	\$0	\$70,000	\$0	\$70,000	\$0
2	Main St & Columbia Street Design Engineering - 75%-100%	\$200,000	\$0	\$0	\$0	\$0
3	DPW Hybrid SUV (Replace 2010 Ford Escape)	\$0	\$0	\$35,000	\$0	\$0
Yearly Totals		\$200,000	\$70,000	\$35,000	\$70,000	\$0

DEPARTMENT: Highway

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Road Paving	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
2	1-Ton Pick up truck w/plow	\$0	\$55,000	\$0	\$0	\$0
3	Salt storage facility	\$0	\$0	\$0	\$300,000	\$0
4	Front-end Loader	\$230,000	\$0	\$0	\$0	\$0
5	Highway Garage Renovate Existing FY22 Design, FY23 Construction	\$0	\$350,000	\$4,200,000	\$0	\$0
6	Highway Garage Addition / Shop / Washbay/Equip Storage	\$0	\$0	\$0	\$0	\$0
7	6-Wheel Dump Truck w/plow and spreader	\$0	\$0	\$0	\$250,000	\$0
8	Shirley St Bridge Replacement	\$0	\$0	\$0	\$0	\$0
9	Barnum Rd Bridge Repairs (Design / Construction)	\$30,000	\$250,000	\$0	\$0	\$0
Yearly Totals		\$410,000	\$805,000	\$4,350,000	\$700,000	\$150,000

DEPARTMENT: Stormwater

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Storm Drain Upgrades	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
2	Stormwater Biofiltration/Outfall Improvements	\$50,000	\$0	\$50,000	\$0	\$0
3	Culvert Replacements	\$50,000	\$100,000	\$50,000	\$100,000	\$50,000
4	Balch Pond Dam Repairs Phase 2- Dam Design & Permitting Phase 3 - Dam Modifications	\$52,000	\$250,000	\$0	\$0	\$0
5	Stormwater Utility Implementation	\$25,000	\$0	\$0	\$0	\$0
Yearly Totals		\$277,000	\$450,000	\$200,000	\$200,000	\$150,000
	DPW GENERAL FUND TOTAL	\$887,000	\$1,325,000	\$4,585,000	\$970,000	\$300,000

M. Wells 11/1/19

FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM
DEPARTMENT OF PUBLIC WORKS
FISCAL YEAR: 2021
ENTERPRISE FUNDS

10/31/2019

DEPARTMENT: DPW Water

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Spectacle Pond PFAS Treatment	\$2,630,000	\$0	\$0	\$0	\$0
2	Annual Water Main Replacements	\$250,000	\$300,000	\$300,000	\$300,000	\$350,000
3	West Main Street / Devens Connection	MassWorks Grant	\$0	\$0	\$0	\$0
4	Filter Media Replacement - Spec Pond WTP	\$350,000	\$0	\$0	\$0	\$0
5	Washington Street Water Tank Painting	\$0	\$0	\$450,000	\$0	\$0
6	Spec Pond Groundwater Supply Development (New Source Approval)	\$120,000	\$0	\$0	\$0	\$0
7	Groton Shirley Road Water Main Loop	\$575,000	\$0	\$0	\$0	\$0
8	Grove Pond Well 6 Replacement Well	\$0	\$0	\$0	\$0	\$120,000
WATER ENTERPRISE TOTAL		\$3,925,000	\$300,000	\$750,000	\$300,000	\$470,000

DEPARTMENT: Wastewater

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Inflow/ Infiltration Repairs	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
2	WWTP Upgrades	\$0	\$3,425,000	\$0	\$3,461,200	\$2,971,800
3	Groton Shirley Rd Low Pressure Sewer	\$500,000	\$0	\$0	\$0	\$0
4	11 Ton Utility Body Pick-up Truck (Replace 2007)	\$75,000	\$0	\$0	\$0	\$0
WASTEWATER ENTERPRISE TOTAL		\$1,325,000	\$4,175,000	\$750,000	\$4,211,200	\$3,721,800

DEPARTMENT: Solid Waste

	Item Requested	FY21	FY22	FY23	FY24	FY25
1		\$0	\$0	\$0	\$0	\$0
SOLID WASTE ENTERPRISE TOTAL		\$0	\$0	\$0	\$0	\$0

FORM A

TOWN OF AYER CAPITAL BUDGET REQUEST FORM

DEPARTMENT: Administration

FISCAL YEAR: 2021

Please list each capital request on this form with a dollar amount and in the appropriate year. Then complete a Form B for each request appearing on this form.

	Item Requested	FY21	FY22	FY23	FY24	FY25
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2	Main St & Columbia Street Design Engineering - 75%-100%	\$200,000				
3	DPW Hybrid SUV (Replace 2010 Ford Escape)			\$35,000		
4						
Yearly Totals		\$200,000	\$70,000	\$35,000	\$70,000	\$0

Department Head Signature: _____

Date: 11/11/19

FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM

DEPARTMENT: Highway

FISCAL YEAR: 2021

Please list each capital request on this form with a dollar amount and in the appropriate year. Then complete a Form B for each request appearing on this sheet.

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Road Paving	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
2	1-Ton Pick up truck w/plow		\$55,000			
3	Salt storage facility				\$300,000	
4	Front-end Loader	\$230,000				
5	Highway Garage Renovate Existing FY22 Design, FY23 Construction		\$350,000	\$4,200,000		
6	Highway Garage Addition / Shop / Washbay/Equip Storage					
7	6-Wheel Dump Truck w/plow and spreader				\$250,000	
8	Shirley St Bridge Replacement					
9	Barnum Rd Bridge Repairs (Design / Construction)	\$30,000	\$250,000			
Yearly Totals		\$410,000	\$805,000	\$4,350,000	\$700,000	\$150,000

Department Head Signature: _____

Date: _____


11/11/19

FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM

DEPARTMENT: Stormwater

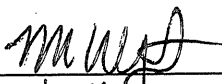
FISCAL YEAR: 2021

Please list each capital request on this form with a dollar amount and in the appropriate year. Then complete a Form B for each request appearing on this sheet.

	Item Requested	FY21	FY22	FY23	FY24	FY25
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4	Balch Pond Dam Repairs Phase 2- Dam Design & Permitting Phase 3 - Dam Modifications	\$52,000	\$250,000			
5	Stormwater Utility Implementation	\$25,000				
Yearly Totals		\$277,000	\$450,000	\$200,000	\$200,000	\$150,000

Department Head Signature: _____

Date: _____


11/11/20

FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM

DEPARTMENT: Water

FISCAL YEAR: 2021

Please list each capital request on this form with a dollar amount and in the appropriate year. Then complete a Form B for each request appearing on this sheet.

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Spectacle Pond PFAS Treatment	\$2,630,000				
2	Annual Water Main Replacements	\$250,000	\$300,000	\$300,000	\$300,000	\$350,000
3	West Main Street / Devens Connection	MassWorks Grant				
4	Filter Media Replacement - Spec Pond WTP (FY21) Grove Pond WTP (FY20)	\$350,000				
5	Washington Street Water Tank Painting			\$450,000		
6	Spec Pond Groundwater Supply Development (New Source Approval)	\$120,000				
7	Groton Shirley Road Water Main Loop	\$575,000				
8	Grove Pond Well 6 Replacement Well					\$120,000
Yearly Totals		\$3,925,000	\$300,000	\$750,000	\$300,000	\$470,000

Department Head Signature: _____

Date: _____


4/1/19

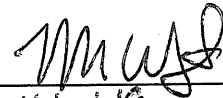
FORM A
TOWN OF AYER CAPITAL BUDGET REQUEST FORM

DEPARTMENT: Wastewater

FISCAL YEAR: 2021

Please list each capital request on this form with a dollar amount and in the appropriate year. Then complete a Form B for each request appearing on this sheet.

	Item Requested	FY21	FY22	FY23	FY24	FY25
1	Inflow/ Infiltration Repairs	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
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3	Groton Shirley Rd Low Pressure Sewer	\$500,000				
4	1 Ton Utility Body Pick -up Truck (Replace 2007)	\$75,000				
Yearly Totals		\$1,325,000	\$4,175,000	\$750,000	\$4,211,200	\$3,721,800

Department Head Signature: 
Date: 11/1/19

DEPARTMENT:

Public Works Administration and Engineering

FISCAL YEAR: **2021**

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: **2021**

Item or Project: **Main St & Columbia St Improvements - 75% and 100% Engineering**

Explanation of Request: The reconstruction of Columbia St (Main Street to Central Ave) and Main Street from the bridge to Park Street, including design of a signalized intersection at Park and Main has been approved for funding by MassDOT and the regional MPO. The 25% design funds were approved at FY20 ATM. This request is for the completion of the desing. The estimated construction cost is \$4 M and is scheduled for FY22/23 construction.

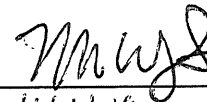
Cost Justification: Cost is based on estimate by engineering consultant using MassDOT estimating and engineering requirements and schedule.

Benefit to the Town: Main Street was last reconstructed in 1987. The sidewalks are not ADA compliant and are in poor shape. The road pavement is in poor shape and the overall streetscape needs updating. The project will eliminate most of the raised curb on the south side of Main Street.

Alternative: Repave existing footprint and complete sidewalk improvements with Chapter 90 funds in phases. This would reduce the total project cost and related engineering, but would take many years to complete. Or the Town could vote money to completely fund the project. This would improve the schedule and reduce some costs.

Department Head Signature: _____

Date: _____


11/11/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Highway

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY22, FY23, FY24, FY25

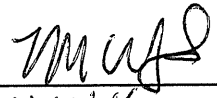
Item or Project: Road Paving

Explanation of Request: The Ayer DPW updated the pavement management plan in 2017. We currently reconstruct / repave roads and sidewalks using MassDOT Chapter 90 funds. Ayer's current allocation is approximately \$240,000 per year. Our pavement management plan provides a Pavement Condition Index - PCI for each street ranging from 0 (newly paved) to 100 (poor condition). Ayer streets have an average PCI of 72. A PCI of 80 is considered acceptable. The pavement management plan identified \$1.5M of roads with a PCI of 50 or lower.

Cost Justification: The budget is based on current paving bid prices with a construction inflation factor.

Benefit to the Town: Maintain the Town's infrastructure on an annual basis and provide the town with safe transportation.

Alternative: Rely on Chapter 90 funding only and apply for other grants when available.

Department Head Signature: 

Date: 11/17/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Highway

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

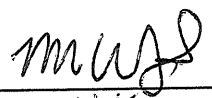
Item or Project: Front End Loader

Explanation of Request: This replaces the 1987 Michigan Loader. The new loader will become the primary unit and the 2007 Cat will be the secondary loader. The loaders are used for snow removal throughout town and used for other road maintenance projects to move gravel, dirt and other debris and to transport heavy objects.

Cost Justification: The price is based upon State Bid list.

Benefit to the Town: To upgrade the aging fleet of vehicles while attempting to increase fuel efficiency with the newer vehicles. New vehicles ensure reliability and significantly reduces emissions.

Alternative: Continue to utilize the aging fleet with continually increasing repair costs, questionable reliability

Department Head Signature: 

Date: 11/11/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Highway

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21 (design), FY22 (construction)

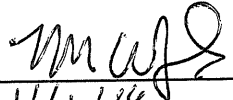
Item or Project: Barnum Road Bridge Repair

Explanation of Request: The Barnum Rd bridge is inspected every 2 years by MassDOT. The most recent reports have identified several deficiencies. It is recommended to repair these deficiencies before the deterioration is severe. The cost estimate is based on a preliminary engineering estimate. Note that this project will be eligible for Small Bridge grant if approved and funded by State.

Cost Justification: The budget is based on an engineering inspection, similar projects and input from engineers familiar with the project.

Benefit to the Town: Repairs to bridge are required to maintain the useful life of the bridge.

Alternative: MassDOT Small Bridge funding will be applied for or Chapter 90 money could be used but would require deferring of road maintenance,

Department Head Signature: 

Date: 11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Stormwater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY22, FY23, FY24, FY25

Item or Project: Storm Drain Upgrades

Explanation of Request: Ayers storm drainage system is aging and will need repair and replacement in an organized and schedule plan. Ayer has 900 catch basins, 106 outfalls, 30 culverts and 6 miles of pipe of various size, material and age/ condition. This budget line will allow us to replace the aging infrastructure prior to paving the roads. The DPW has completed assessments of storm drains on , William, High, Willard, Myrick, Grosvenor and lower Washington St and all need repair or replacement. The DPW plans to repair drain pipes and structures prior to repaving roads.

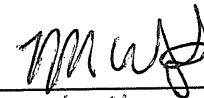
Cost Justification: The Town Engineer has completed the GIS mapping of the stormwater system and developed a program to replace drainage on roads that will be repaved in the next 5 years. Cost Estimates were developed for drain replacements on 6 streets and the average cost, based on current bid prices, is \$100,000 per year.

Benefit to the Town: Replace aging infrastructure, reduce emergency repairs and improve drainage in Town as part of the road repaving program.

Alternative: Continue with current operations

Department Head Signature: _____

Date: _____


11/17/14

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Stormwater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY 23,

Item or Project: Stormwater Outfall Biofiltration Systems

Explanation of Request: The 2015 Pond Management study identified 11 areas where improvements to drainage outfalls that will reduce pollution entering the town ponds. This capital item is for the construction of three to four stormwater biofiltration systems in the Flannagan Pond and Grove Pond areas to reduce stormwater runoff contamination from entering the ponds. These improvements are required to meet the 2017 EPA Stormwater Permit.

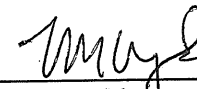
Cost Justification: The budget is based upon costs developed by the engineers in the Pond Management Study and updated based on DPW Phase 1 bid results

Benefit to the Town: These projects are required in the Town's Stormwater permit. They improve the water quality in the towns important water resources

Alternative: There are no resonable or more cost efective alternatives. The "do nothing" alternative may result in permti violations and fines.

Department Head Signature: _____

Date: _____


11/1/17

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Stormwater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY22, FY23, FY24, FY25

Item or Project: Culvert Repair and Replacements

Explanation of Request: There are approximately 30 culverts of various size, material and age throughout the Town road system. The budget item will provide the DPW with funding to inspect, engineer, repair and replace roadway culverts before failure results in road closing. It would also fund culvert replacements on roads that are in the Town-wide paving program. Locations identified include Groton School Road, Rosewood Ave, and Mark Street, Central Ave, Old Sandy Pond Rd, Cambridge Street and Snake Hill Road .


Cost Justification: The Town Engineer developed costs to repair / replace existing small culverts under town roads. This request spreads the cost of the priority culverts over the 5 year period.

Benefit to the Town: Failure of the existing culverts will result in a significant public safety issue and a more costly solution

Alternative: Wait until the culvert collapses and / or close the road.

Department Head Signature: _____

Date: _____


11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Stormwater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY 22

Item or Project: Balch Pond Dam Improvements

Explanation of Request: The Town is responsible for inspecting and maintaining the dams and dikes on public property. These dams require inspections every 5 years and also need maintenance including new flash boards, fencing and concrete repairs. Based on the 2012 inspection of the Balch Pond Dam and MassDOT completed a Phase 2 Report in 2014. Significant repairs are required on the dam and dike. In order to comply with the requirements of MassOffice of Dam Safety, improvements are required. There is some question as to the ownership responsibility of teh Balch Pond Dam. The Dike is on Town ROW property. Some Phase 3 work is included in the DPW capital budget, however MassDOT may also be scheduling this work.

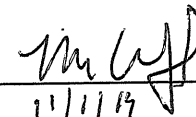
Cost Justification: The budget is based upon engineering estimates from the 2014 Phase 2 Report.

Benefit to the Town: Maintain existing dam infrastructure and pond levels, meet Dam Safety requirements and protect public safety and meet Mass Dam Safety regulations to avoid fines.

Alternative: Work with MassDOT and see if they are responsible for some of the improvements

Department Head Signature: _____

Date: _____


11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Stormwater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Stormwater Utility Implementation

Explanation of Request: Town Meeting approved the formation of a Stormwater Enterprise Fund in 2011. A plan was developed to implement the stormwater utility, including capital plan, rates and operations. In 2015, the BOS voted not to implement the Fund. Based on new EPA Stormwater requirements, the capital infrastructure costs and protection of Ayer water resources, the DPW is proposing that Town Meeting reconsider the Stormwater Enterprise Fund. This budget item would be to update the project budgets, rates and implement the billing system.

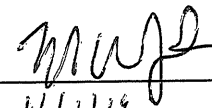
Cost Justification: Stormwater capital costs are proposed at \$1.3M and annual operating costs are \$75K per year. Implementing an Enterprise fund will reduce the tax burden and make it "user based" rate funded.

Benefit to the Town: See above

Alternative: Continue to operate and fund the stormwater infrastructure under the General Fund

Department Head Signature: _____

Date: _____


11/1/21

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Water

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Spectacle Pond PFAS Treatment Facility

Explanation of Request:

Cost Justification:

The Spectacle Pond wells are contaminated with PFAS. The MassDEP is in the process of setting a drinking water limit, which will require treatment. The DPW has evaluated alternatives and is in the process of designing the facility.

The cost is based on the bid cost of the Grove Pond facility and adjusted for the additional work required due to the Spec Pond location and existing facilities. Engineers Estimate is \$6,200,000 and \$3,570,000 was transferred from Grove Pond borrow article.

Benefit to the Town:


Provide safe drinking water and meet Safe Drinking Water Regulations.

Alternative:

No alternative - when the MassDEP sets an MCL, we will not be able to use the wellfield without treatment

Department Head Signature: _____

Date: _____


11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Water

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY22, FY23, FY24, FY25

Item or Project: Annual Water Main Replacement

Explanation of Request: The Town Water Distribution System consists of 37 miles of pipe ranging from 4 to 16 inch diameter. Much of the system is over 110 years old, has internal corrosion or has exceeded it's useful life. This item will budget for an annual water main replacement program to begin upgrading the aging infrastructure. The priority will be coordinated with other town projects including road paving. This approach has been effective in beginning to address the need for a long term infrastucutre upgrade program. Completed projects include Pleasant St., Taft St, Washington St (Highland to Nashua), Pearl St. Snake Hill Rd., Fletcher St., Prospect St, Pearl St, Oak St and replacement of 10 hydrants throughout Town.

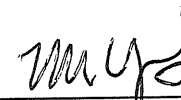
Cost Justification: The \$250,000 budget is based on approximately 2000 feet of replacement per year. Proposed projects include High Street, Williams St, Shirley St and Wright Road.

Benefit to the Town: Replace aging infrastructure before major failure or maintenance is required. Improve water quality and reliability

Alternative: Do nothing and risk future more costly repairs. Reduce annual footage, Wait for future grant programs.

Department Head Signature: _____

Date: _____


11/1/21

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: WATER

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Filter Media Replacement - Spec Pond WTP

Explanation of Request: The Spectacle Pond Water Treatment Plant removes iron, manganese and arsenic from the water using a specialized filter media. The media in the filters was last changed in 2008. We take media samples every 10 years to check the physical condition. In fall/winter 2017, the filter media was not performing and water with high levels of iron and manganese was discharged into the distribution system, resulting in customer complaints and bacteria issues. A detailed filter media inspection was performed in spring 2018 and it was determined that the media was clogged and needed extensive cleaning to return to normal. Media replacement at Grove Pond WTP showed significant media fouling and plugging of underdrains and air wash piping.

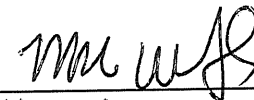
Cost Justification: The price is based upon the bid for Grove Pond media replacement bid in 2019

Benefit to the Town: Continue to treat the water effectively and efficiently and reduce the time and water waste spent cleaning the filter media.

Alternative: Delay the media change out for as long as possible resulting in lower water quality and less efficient operations.

Department Head Signature: _____

Date: _____


6/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Water

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Water Main Improvement -Groton Shirley Road

Explanation of Request: This capital improvement was requested by residents in the area. It connects two long dead end pipes on Groton Shirley Road and Fitchburg Road. This results in low fire flows and many water quality complaints. Residents and businesses in this area have requested that we complete this loop to correct the water deficiencies. In addition, Groton Shirley Rd needs repaving and installing the new pipe prior to paving is good planning and more cost effective.

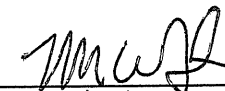
Cost Justification: The cost is based upon recent bid prices for similar projects. The project will provide water service to 12 houses that do not currently have water available.

Benefit to the Town: This will provide a an increase in fire flow to the residents and businesses, improve the water quality resulting for the dead end mains and reduce the number of customers out of water due to main breaks in the area..

Alternative: Do nothing
Phase the project over several years
Obtain grant funding

Department Head Signature: _____

Date: _____


11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Water

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

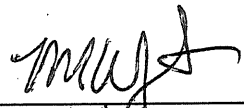
Item or Project: Spec Pond Groundwater New Source Approval

Explanation of Request: The FY20 capital plan included the initial phase of a groundwater source investigation on a town owned parcel west of Sandas Point Road near Spec Pond. Preliminary results of the testing indicate that this may be an additional supply. The next phase is to perform a New Source Approval Testing and Report, as required by MassDEP

Cost Justification: The cost estimate was supplied by a groundwater hydrogeologist who regularly performs this type of work. The cost includes MassDEP permitting, additional observation wells, a prolonged pumping test, water quality samples and preparation of a report.

Benefit to the Town: Identify potential future water supply well site(s)

Alternative: Continue current operations and identify additional supplies through interconnections.

Department Head Signature: 

Date: 11/17/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Wastewater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21, FY22, FY23, FY24, FY25

Item or Project: Inflow / Infiltration Sewer Repairs

Explanation of Request: The Town sewer system is aging and has significant inflow and infiltration during wet weather and spring snow melt. The flows to the plant more than double at times, resulting in added pumping, treatment and operating costs. The EPA NPDES permit for the town has requirements to reduce the I/I. The DPW has completed a detailed investigation including CCTV inspection of pipes and manholes and quantifying the inflow / infiltration. Based on the investigations, a long term, phased sewer rehab program has been developed.

Cost Justification: The Budget is based on I/I plan developed by Arcadis Consultants based on the 2018 investigation / study.

Benefit to the Town: To reduce the flows, pumping and treatment costs, operations and provide a basis for requiring developer participation. Also meet regulatory requirements. The DPW is also developing an I/I removal policy that would require developers to pay for repairs to support I/I removal.

Alternative: Continue current operations. At some point, reduction in I/I will be mandated by the EPA as a NPDES Permit Condition.

Department Head Signature: _____

Date: 11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Wastewater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY22

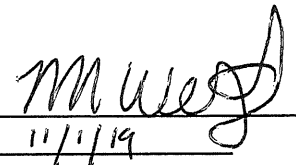
Item or Project: Wastewater Treatment Plant Upgrades

Explanation of Request: The Ayer Wastewater Treatment Plant was constructed in 1982 .It has had process upgrades but much of the process and building systems have not been upgraded. In addition, there are new regulations that the Town must comply with. The DPW completed a WWTP facility evaluation for the facility site, process, equipment, building systems and efficiency, including improvements required to meet the NPDES Discharge Permit. A five year + program has been developed to prioritize and categorize the improvements.

Cost Justification: The budget is based on 2015 detailed engineering evaluation and report completed by CDM-Smith, the company that designed the original plant and a world renowned environmental engineering consultant and has been updated and reprioritized on an annual basis

Benefit to the Town: Improve the safety and reliability, operational efficiency, reduce operational costs, prolong the life of the facility and meet regulatory requirements.

Alternative: Doing nothing and continue with costly repairs and reliability issues.
Scale down the scope and phase the improvements over a longer period of time

Department Head Signature: 

Date: 11/1/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Wastewater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Utility Body 1 ton Pickup with Plow

Explanation of Request: This truck replaces a 2007 3/4 ton Chevrolet Silverado (140k miles). This is used to operate pumping stations, respond to sewer back-ups and general operations of the Wastewater utility. It will have a full utility body for maintenance and emergency tools

Cost Justification: The price is based upon recent quote as specified by the State Bid list

Benefit to the Town: Efficient operations of Wastewater utility.

Alternative: Continue to utilize the aging fleet with increasing repair costs, questionable reliability

Department Head Signature: _____

Date: _____


11/11/19

FORM B

TOWN OF AYER CAPITAL BUDGET REQUEST BACKUP DOCUMENTATION

DEPARTMENT: Wastewater

FISCAL YEAR: 2021

Please provide written explanation and justification and any appropriate backup materials that would be necessary to understand and consider this request.

Fiscal Year of Request: FY21

Item or Project: Groton Shirley Road Sewer

Explanation of Request: The DPW is in the process of designing water main, drainage and road improvements to Groton Shirley Rd. Residents petitioned the DPW to add municipal sewer to the design. There are 24 residents who are not currently connected to town sewer.

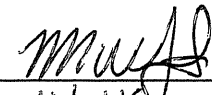
Cost Justification: Cost Estimate based on current bid prices and input from Engineers

Benefit to the Town: Provides sewer to unsewered part of Town and protect water resources from failing septic systems

Alternative: No sewer

Department Head Signature: _____

Date: _____


11/11/19