



# STORMWATER UTILITY UPDATE

Advisory Group Meeting, October 11<sup>th</sup> 2023



**Tighe&Bond**

# AGENDA



## Today's Objective:

Discuss and obtain feedback on stormwater program level of service, associated revenue projection, and funding sources for various program elements.



# HISTORIC & PROJECTED STORMWATER EXPENDITURES

- See Handout



Historic and Projected Stormwater Expenditures  
Ayer, MA  
Stormwater Funding Analysis

Stormwater Activity		Historic Expenditures					Projected Expenditures					Historic Expenditures	Projected Expenditures
Year		FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	Annual Average FY19-FY23	Annual Average FY24-FY28
Capital Budget													
Construction Projects													
	Stormwater Capital Projects	\$ 168,766	\$ 107,092	\$ 49,677	\$ 12,000	\$ 207,904	\$ 510,000	\$ 1,880,000	\$ 1,580,000	\$ 1,880,000	\$ 1,530,000	\$ 110,000	\$ 1,476,000
Engineering / Master Planning													
	CMRSWC services related to Stormwater collaborative			\$ 10,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 6,000	\$ 5,000
	MS4 Permit - Consulting Services	\$ -	\$ 16,816	\$ -	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 4,000	\$ 20,000
	Stormwater Asset Management Plan	\$ -	\$ -	\$ 38,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 8,000	\$ 13,000
	Mobile 311 (Asset Management / Work-Order System)	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 4,000	\$ 5,000
Highway Vehicle Purchases													
	3500 Dump Truck	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 55,000
	3500 Dump Truck	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Sidewalk Tractor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	BACKHOE Loader	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 225,000	\$ -	\$ -	\$ 45,000
	MT-7 Sidewalk Tractor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SMITH AIR COMP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	RD 12A-90 ROLLER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	938M Front Loader	\$ -	\$ -	\$ 230,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,000	\$ -
	Street Sweeper	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Staffing (% Time on Stormwater)													
	Conservation Agent (15%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 12,000	\$ -	\$ 12,000
	Civil Engineer (25%)	\$ -	\$ -	\$ -	\$ -	\$ 14,000	\$ 15,000	\$ 16,000	\$ 16,000	\$ 16,000	\$ 17,000	\$ 3,000	\$ 16,000
	Town Engineer (15%)	\$ 13,000	\$ 13,000	\$ 13,000	\$ 14,000	\$ 13,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 16,000	\$ 16,000	\$ 14,000	\$ 16,000
	Director of Public Works (5%)	\$ 6,000	\$ 6,000	\$ 7,000	\$ 7,000	\$ 6,000	\$ 7,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 7,000	\$ 8,000
	Highway Operations (20%)	\$ 63,000	\$ 65,000	\$ 68,000	\$ 66,000	\$ 66,000	\$ 69,000	\$ 70,000	\$ 72,000	\$ 73,000	\$ 74,000	\$ 66,000	\$ 72,000
Subtotal - Capital Budget		\$ 255,000	\$ 212,000	\$ 421,000	\$ 107,000	\$ 315,000	\$ 655,000	\$ 2,303,000	\$ 1,732,000	\$ 2,259,000	\$ 1,737,000	\$ 268,000	\$ 1,743,000
Operating Budget													
Drain Repairs by Highway Division/Private Contractor*		\$ 9,980	\$ 9,995	\$ 15,000	\$ 15,000	\$ 17,325	\$ 15,000	\$ 15,000	\$ 20,000	\$ 25,000	\$ 25,000	\$ 14,000	\$ 20,000
Catch Basin Cleaning by Private Contractor		\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 17,325	\$ 18,000	\$ 18,000	\$ 18,000	\$ 18,000	\$ 18,000	\$ 16,000	\$ 18,000
CCTV Clean & Inspection Drainage Pipes by Private Contractor		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000	\$ 35,000	\$ 45,000	\$ 45,000	\$ 45,000		
Stormwater Detention Basin Maintenance by Private Contractor		\$ -	\$ -	\$ -	\$ 5,800	\$ -	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000		
Subtotal - Operating Budget		\$ 30,000	\$ 30,000	\$ 35,000	\$ 41,000	\$ 40,000	\$ 64,000	\$ 74,000	\$ 89,000	\$ 94,000	\$ 94,000	\$ 30,000	\$ 38,000
Total Expenditures		\$ 285,000	\$ 242,000	\$ 456,000	\$ 148,000	\$ 355,000	\$ 719,000	\$ 2,377,000	\$ 1,821,000	\$ 2,353,000	\$ 1,831,000	\$ 298,000	\$ 1,781,000

\*Historic expenditures are estimated.

# WHY A STORMWATER UTILITY?



## Sustainable, Long-Term Funding to Meet Program Goals

- **Asset Management Plan**
  - Replacement value of Ayer's drainage system is over \$90 Million
- **Small MS4 General Permit**
  - Expect more stringent requirements in the new Permit, expected for public comment this year

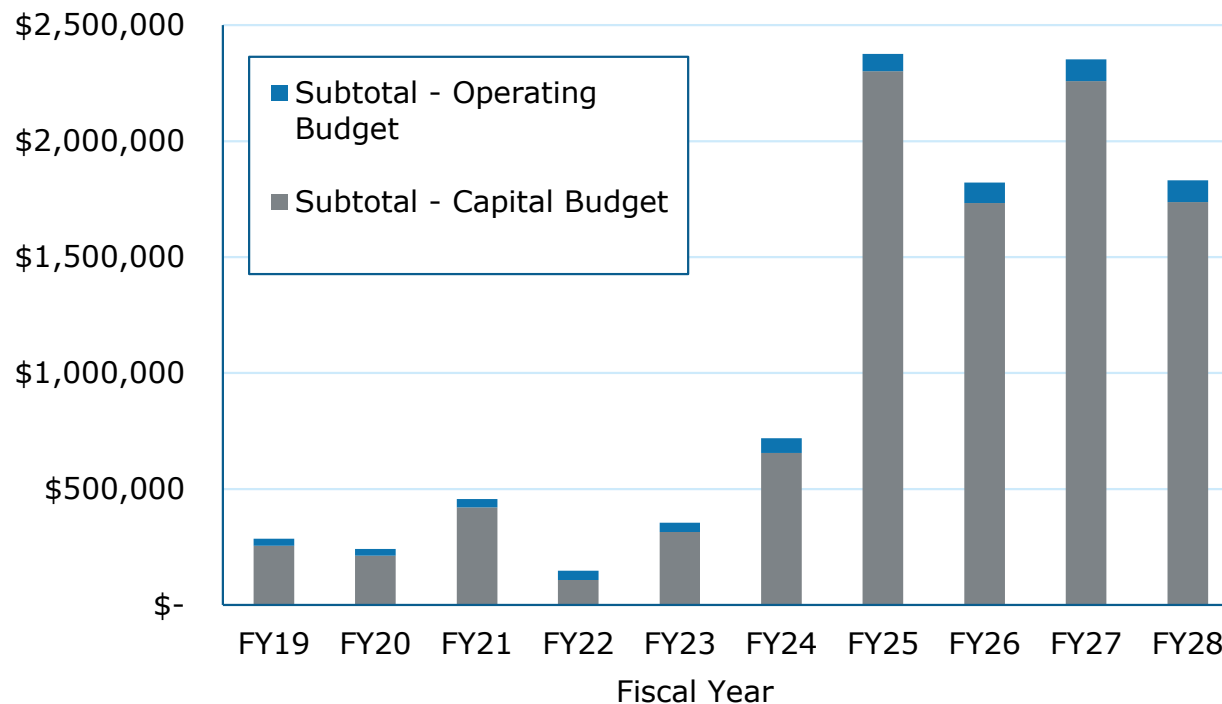


# REVENUE PROJECTIONS



- **Current Budget (5-year average) = \$355,000/yr**
- **Next Five Years: significant increase in Capital and Operating**
  - Additional Work Needed to “Right Size” the program and revenue needs based on program goals

Historic and Projected Stormwater Expenditures  
(Draft for Discussion)



# RATE IMPACTS



- **Total Rate Base:**

- SFR: 1,714
- NSFR: 6,212
- Total: 7,926

- **\$2M Targeted Revenue - \$250/ERU**

- **\$1M Revenue - \$125/ERU**

- All Capital funded by borrowing; included as debt service in revenue projections



# RATE IMPACTS



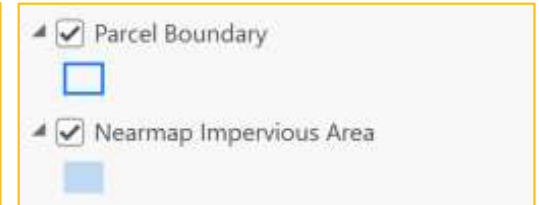
## Example Properties: Single Family Residential (SFR)

- 1 ERU in Ayer is equivalent to 3,200 sq. ft of Impervious Area

Property: 2 Pheasant Circle

IA: 3,195 Square Feet

ERU = 1



Option 1: \$250 per year

Option 2: \$125 per year



# RATE IMPACTS

## Example Properties: Non-SFR



Property: 7 Faulkner Street – St. Andrews's Church  
IA: 20,316 Square Feet  
ERU = 7



Option 1: \$1,750 per year  
Option 2: \$875 per year



Property: 1 Longview Circle – The Willows Condos  
IA: 294,953 Square Feet  
ERU = 93



Option 1: \$23,250 per year  
Option 2: \$11,625 per year

