Plainville Public Works

**Proposed FY 2021 Capital Improvements Plan**

**PUBLIC WATER SYSTEM**

- **MOTORIZED EQUIPMENT** – Continued replacement or motorized vehicles and equipment used in the operations of the water system. There is not a scheduled replacement for FY 2021,

- **WATER FACILITY AND MECHANICAL SYSTEM IMPROVEMENTS** – System wide improvements to facilities include:
  1. Replacement of the roof structure at the well #1 pump house - $30,000
  2. Ongoing annual water well pump replacements - $25,000
  3. Water well building’s and facilities improvements in accordance with the 2019 Asset Management and Preventive Maintenance plans prepared by the BETA Group in 2019. – $25,000.

- **SYSTEM TECHNOLOGY** – Continued improvements and upgrades to the Supervisory Control and Data Acquisition (SCADA). This is a computerized system used to monitor and control the treatment plant, water storage tanks, pumps and wells. Projects are planned in accordance with the “SCADA Analysis and Report” conducted in 2017 by Woodard & Curran and requested funding for Fiscal Year 2021 is $75,000

- **WATER MAIN DISTRIBUTION** – Replacement of older water mains to improve flows and water quality. The CIP includes replacement of the water main in Phase I of the South Street Area Water Main Replacement Project for Fiscal Year 2021 and is estimated at $1,250,000. This Project will involve design and construction to replace the existing 6” cast iron water main with an 8” cement lined ductile iron water main, new valves and hydrants, on the section of Grove Street between East Bacon Street and Bugbee Street and on Lincoln Avenue.
PUBLIC WATER SYSTEM

- ENGINEERING SERVICES-WATER SOURCES, PERMITTING – The CIP includes an estimated cost of $465,000 for Fiscal Year 2021 which involves the following three separate projects.

1. The American Water Infrastructure Act (AWIA) of 2018 requires public water systems serving greater than 3,300 people to complete a risk and resilience assessment and develop an emergency response plan. - $115,000.

2. Plainville’s Water Management Act water withdrawal permit for the Taunton River Basin is currently under review for renewal with the Department of Environmental Protection. However, as the Town has requested an increase to the permitted water withdrawal volume to meet current and future demand, additional engineering and land title efforts need to be performed. - $100,000.

3. The design, permitting and construction of a new satellite water well in the Turnpike Lake Area within the Taunton River Basin. - $250,000. **This project was included as a bid alternative in the public bid for replacement of Plainville Water Wells 3b and 3c and if approved will be designed and constructed as part of that project in the fall.**
Proposed FY 2021 Capital Improvements Plan

PUBLIC SEWER SYSTEM

- **SEWER INFLOW MITIGATION** - As defined by the “Sewer System Analysis and Infiltration & Inflow Report” conducted by Woodard & Curran in 2014, sections of the Sewer System are prone to inflow from private property discharge from roof leaders, yard drains and sump pumps. These flows must somehow be eliminated from the sewer system flows and redirected to storm water outlets. This will create capacity for the system and will save money by reducing flows to the treatment plant. This may involve design and construction of separate storm water collectors, or complete roadway drain system for properties to tie in their storm water discharges. Estimated cost for FY 2021 are $500,000 for an investigation and design of a project to construct and connect a storm water discharge conveyance system in the Town Center. The funds required for this work may be adjusted and or somewhat offset by future Sewer Mitigation and connection fees. *This project and following Inflow mitigation projects will restore needed capacity for existing properties and future growth within the Moran Street Sub Sewer System.*

- **SYSTEM TECHNOLOGY** – Continued improvements and upgrades to the Supervisory Control and Data Acquisition (SCADA). This is a computerized system used to monitor and control the sewer pumping stations. Projects are planned in accordance with the “SCADA Analysis and Report” conducted in 2017 by Woodard & Curran and requested funding for Fiscal Year 2021 is $50,000.

- **REDIRECTION OF SYSTEM FLOWS AT EAST BACON STREET** – This project will provide a temporary solution to sewer capacity limitations within the Moran Street sub sewer system by redirecting flows from the Oasis Development to the Kelley Blvd. Sub Sewer system which is not highly impacted by wet weather flows. *This project will provide temporary capacity for a proposed commercial development in Commerce Park and the residential development of the Heather Golf Course until the Inflow mitigation work has been completed in the Moran Street Sub Sewer System.*
HIGHWAY OPERATIONS & ROADWAY MAINTENANCE

- **ANNUAL ROADWAY MAINTENANCE & IMPROVEMENTS** – Roadway maintenance and improvements as outlined in the attached Road Improvement Plan. Funding for storm water improvements to meet the requirements of the MS4 Storm Water Permit are included in the estimated funding request for Fiscal Year 2021 - $700,000. *This program has been deferred due to current financial circumstances, however, roadway projects that were begun last year will be completed using Chapter 90 funding.*

- **HIGHWAY OPERATIONS EQUIPMENT** – Continued replacement or motorized vehicles and equipment used in the maintenance of roads, storm drains, sidewalks, trees and rights of way. Public Works is proposing the replacement of a 1991 International Heavy Duty Dump Truck. This truck is used daily in the construction season hauling gravel and asphalt to and from worksites throughout Town. The Truck has outlasted its anticipated serviceable years. Replacement cost for this truck is estimated at $88,000. *This recommendation has been deferred due to current financial circumstances.*
Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.