

ARPA APPROVED PROJECTS- ORIGINAL				
Department	Project	Amount- Estimated	Eligibility Expenditure Category	Project description
Fire	SCBA Decontamination Unit	35,000.00	1.5 Personal Protective Equipment	Self Contained Breathing Apparatus (SCBA) decontamination unit. This unit is heavy duty washing machine helps avoid exposing the crew to combustion gases, soot particles and toxins released in the maintenance process and also substantially lowers the time spent decontaminating firefighter equipment. While we have machines specific to our protective clothing, we are looking to obtain this unit to limit exposures which is key to reducing occupational illnesses, including cancer.
DPW	Sewer inflow & infiltration mitigation	2,500,000.00	5.6 Clean Water: Stormwater	<p><b>SUMMARY:</b> The project will begin with a study to identify sources of I &amp; I, followed be a construction project to rehabilitate the sources of I &amp; I. <b>DESCRIPTION:</b> What is Sewer Inflow and Infiltration (I &amp; I)? Ideally the city streets are equipped with both sanitary sewer, which carries wastewater to the Greater Lawrence Sanitary District (GLSD) Wastewater Treatment Plant and Storm Sewer (commonly called drainage) which carries stormwater to the nearest water way. In some parts of the city stormwater catch basins are connected directly to the sanitary sewer, this direct connection is called inflow. Other forms of inflow are from private sump pumps and floor drains that are connected to the sanitary sewer system. Infiltration is groundwater that seeps into the sanitary sewer system through cracks in the pipe, leaky joints, and manholes. During periods of wet weather, the I &amp; I can exceed the capacity of the GLSD plant resulting in Combined Sewer Overflows (CSO's), a discharge raw sewage into the Merrimack River. Further, the I &amp; I is essentially clean water, yet we pay GLSD to treat it. The GLSD plant operates under a National Pollutant Discharge Elimination System (NPDES) permit. As a member of GLSD Methuen is a co-signatory of the NEPDES permit and are bound by its requirements. GLSD's NPDES permit requires all co-permittees to develop and execute an I &amp; I Elimination Program, we are currently in violation of this requirement. The I &amp; I Elimination Program will begin with a sewer metering program to identify areas of excessive I &amp; I. When the areas are identified, the sewer system will be cleaned and inspected with video and/or sonar to identify the exact sources of I &amp; I. Once identified the source of the I &amp; I will be eliminated by an appropriate repair method. <b>IMPORTANCE:</b> If not addressed, eventually EPA/DEP will issue a Consent Decree whereby the City will be ordered to do whatever is deemed necessary, regardless of the financial impact to the City and of course continuing to pay to treat clean water.</p>

DPW	Granite St water pumping station rehab	6,210,000.00	5.11 Drinking water: Transmission & Distribution	<p><b>SUMMARY:</b> Rehabilitation of the Granite Street Water Pumping Station and power supply improvements to the raw water intake structure. <b>DESCRIPTION:</b> The Granite Street Water Pumping Station is an historic facility that connects the City of Lawrence and the City of Methuen water distribution systems. When the station was constructed, the intended use was to provide a connection to the Lawrence reservoir for Methuen in the event of an emergency. The station has sat idle for decades. During regional discussions regarding emergency preparedness, it was recognized as a possible asset for both Methuen and Lawrence as either could receive water from its neighbor in the event of an emergency. The project involves the rehabilitation of the station, including new pumps, electrical and mechanical systems that will allow the future use of the station. Additionally, this project has been combined with another critical project at the Methuen Water Treatment Plant and Raw Water Intake Station. Currently, the Water Treatment Plant provides back-up power to the Raw Water Intake Station at the edge of the Merrimack River several hundred feet from the plant via a series of buried electrical conduit. In the past, we have had power issues as the conduit are failing and full of groundwater. The project involves the addition of a new power service connection and emergency backup generator at the raw water station. The project estimate includes both projects. <b>IMPORTANCE:</b> Currently Methuen cannot import water from Lawrence due to pressure differences in each community's water systems. Rehabilitation of the pumping station will provide an important water supply option in case of emergency.</p>
Recreation	Renovation of MHS Tennis Courts	1,400,000.00	6.1 Provision of Government Services	Total replacement of existing tennis court at MHS. This will include demolition, regrading, installation of proper drainage, new fencing, improved accessibility and LED lighting and replacement of playing surface to include tennis and pickleball courts. These courts are utilized by community members of all ages and are becoming a safety risk for participants using the facility.

DPW	Lowell St/Shirley Ave Drain	2,225,000.00	5.6 Clean Water: Stormwater	<p><b>SUMMARY:</b> Design and construction of drainage improvements to eliminate flooding and property damage on Lowell Street north of Capital Street.</p> <p><b>DESCRIPTION:</b> There is an existing drainage system that begins with a series of catch basins on Lowell Street and runs through a few private properties to Shirley Avenue where the drainage system then captures additional storm water from the roadways and ultimately discharges into an existing downgradient waterway. The system surcharges and causes flooding in Lowell Street and on private property causing potential safety issues in the roadway and on-going damage to private driveways and yards. The project involves the engineering analysis of the drainage system and contributing flows and ultimately the construction of a new drainage system in the area capable of mitigating the flows appropriately. <b>IMPORTANCE:</b> The drainage improvements are necessary to resolve the flash flooding and property damage in this area.</p>
Fire	Fire Truck (pumper)	640,000.00	6.1 Provision of Government Services	Instead of requesting the purchase of East Street property to convert it to a new east end fire station at a cost of \$3.5m, this request is being made instead to purchase a "short" fire truck that would actually fit in the current station and therefore be able to utilize this station appropriately.
CD	Battye Property Environmental Assessment/Planning	921,000.00	6.1 Provision of Government Services	Property has been identified as a preferred site for a replacement City DPW maintenance facility with capacity to serve current fleet and public works highway operations. Site has been vacant for more than a decade with a history of illegal dumping and environmental enforcement actions by the City, MassDEP and Attorney General's Office. Designated 70-acre Brownfield site in an Environmental Justice (EJ) industrial area along environmentally sensitive Hawkes Brook, the parcels have been in tax title foreclosure by the City. Environmental site assessment and cleanup is prerequisite to redevelopment. 15 acres of the 70 acres needed for DPW facility with remainder planned for conservation and/or community use. Next steps are Phase II Environmental Assessment and preliminary design project development phase for DPW maintenance facility.
DPW	New building/ Feasibility/Engineering/ Environmental	2,256,152.00	6.1 Provision of Government Services	The current DPW facilities, specifically the maintenance facility, has become a major safety concern. The City would like to use these funds to complete feasibility, engineering and environmental studies surrounding a new DPW facility.

DPW	Riverside Drive sewer main rehab	930,000.00	5.5 Clean Water: Other Sewer Infrastructure	<p><b>SUMMARY:</b> Rehabilitation of the Burnham Rd. Pump Station. The project will design and either rehabilitate an existing 15" sewer main that extends from Strathmore Road to the Lawrence City Line, along the bank of the Merrimack River or redirect the sewer to eliminate the subject pipe. <b>DESCRIPTION:</b> In 1919 the 15" VC sewer main was constructed to convey sewage from the west side of Tower Hill to Lawrence. A 2019 investigation of the pipe revealed cracks in the pipes and manholes, root intrusion and joint failures. The pipe was constructed, in part, on an extremely steep bank of the Merrimack River, making access for very difficult and unsafe. Additionally, the sewer main is from erosion caused by two drainage system outlets, one from Riverside Drive and the other from Olive Avenue. The Riverside Drive drain outlet has previously failed and is causing devastating erosion of the slope, left unchecked will destroy the sewer main. The Olive Avenue outlet will suffer the same fate if not maintained soon. The project will include permanent stabilization of both drain outlets. Due to the geography in the area, it may be possible to re-route the sewer main to the Burnham Road Sewer Pump Station (post rehab) and eliminate the subject sewer main. The engineering portion of this project will include a cost benefit analysis of each option. <b>IMPORTANCE:</b> Eventually the pipe will fail either due to sewage backup or erosion from the drain outlets. A failure will spill sewage directly into the Merrimack River, a short distance upstream from Lawrence's raw water intake. An emergency repair will be extremely expensive as the first step in the repair would be to construct an access road , likely supported by steel sheeting.</p>
-----	----------------------------------	------------	---	---

DPW	Rail Trail Rt 213 water main project	3,750,000.00	5.11 Drinking water: Transmission & Distribution	<p><b>SUMMARY:</b> The project will design and construct a water main extension to support commercial development and fire protection in the Broadway corridor, north of Route 213. <b>DESCRIPTION:</b> The so-called north Broadway area is isolated from the rest of the water system by Route 213. Prior to the construction of Route 213 the area was serviced by two six-inch diameter water mains, one in Hampshire Street, the other in Nevins Road. When 213 was constructed, portions of Hampshire Street and Nevins Road were abandoned but the water mains remained in place. In terms of water main construction, Route 213 is a significant obstacle. The project contemplates using the Rail Trail to construct a 12" diameter water main from Railroad Square to near the Salem, NH town line and to Broadway. <b>IMPORTANCE:</b> Currently we can provide minimally adequate water supply to the subject area, however the demand from a catastrophic would likely exceed capacity. Further, a failure of either main that crosses under Route 213 would require an extended shutdown until a specialized contractor capable of making a repair in a highway was engaged. The project would provide a redundant supply to the area.</p>
DPW	Burnham Rd Sewer Pump Station	5,250,000.00	5.5 Clean Water: Other Sewer Infrastructure	<p><b>SUMMARY:</b> The Burnham Road Sewer Pump Station Project consists of replacing all pumps, valves, piping, controls, digesters, all electrical components (wet well), steel grating and stand-by power system. The project will also evaluate and if warranted provide a fourth pump. <b>DESCRIPTION:</b> The Burnham Road Sewer Pump Station, the City's largest, entered service in November of 1982, 40 years ago, as part of the West End Sewer Project. The pump station services much of the west end of Methuen and a substantial portion of east Dracut. The pump station is equipped with three 75 horsepower pumps that were replaced in 1992, thirty years ago. The average daily flow to the station is around 750,000 gallons per day, however in extreme wet weather conditions the flow can approach 3 million gallons per day. During the Mother's Day Flood in 2006, all three pumps ran continuously for several days, clearly illustrating there is NO reserve capacity. When originally constructed the station was plumbed for a fourth pump. This project will evaluate and if warranted, provide a fourth pump. <b>IMPORTANCE:</b> This project is the top priority for the Department. The industry standard is to rebuild pumps at five-year intervals and rehabilitate a pump station at 15–20-year intervals. The Burnham Road Pump Station is now at twice the industry standard for rehabilitation, failure is imminent. If the station fails in a period of high flow, the station will be inundated in 2.5 hours and will discharge into the environment shortly after. Due to the proximity to the water treatment plant's raw water intake, a catastrophic discharge could impede or prevent the production of domestic water for the city.</p>

DPW	Arlington neighborhood combined sewer	9,750,000.00	5.5 Clean Water: Other Sewer Infrastructure	<p><b>SUMMARY:</b> Construction of a drainage system to allow the separation of combined sewer system and the replacement of 100-year old water main in the area.</p> <p><b>DESCRIPTION:</b> The removal of combined sewer overflows has been the goal of many Massachusetts communities for years. For communities like Methuen that contribute to the Greater Lawrence Sanitary District the problem has been high on the priority list lately due to the increased frequency and magnitude of overflows receiving media attention. While there are several small, combined sewers in Methuen, the largest section is within the Arlington Neighborhood bordering Lawrence. Currently, an existing 24-inch main in the area has drainage connections that contribute significant rainfall to the sewer system during larger storm events, storm water that ultimately contributes to the Combined Sewer Overflows experienced in Lawrence. The proposed project involves an engineering analysis of the existing drainage configuration in the area, and the subsequent development of a scope of work for the separation of the combined sewers in the Arlington Neighborhood, the design and construction of the replacement of the 100 plus year old water mains and rehabilitation of the areas sewers. It is anticipated that there will be Federal funding for the actual separation of the neighborhood's combined sewers. The sewer separation will proceed once that funding is available. Methuen and Lawrence have a preliminary agreement to work together on the project to make a larger, more significant reduction in combined systems within both communities. The water system in the subject area are some of the oldest in the City. While construction is underway the water mains will be replaced.</p> <p><b>IMPORTANCE:</b> Without this project Methuen will continue to contribute to the CSO issue in Lawrence which intermittently discharges raw sewage into the Merrimack River. Further, Methuen will continue to pay GLSD to treat essentially clean stormwater.</p>
School	9 Branch Street purchase	10,000,000.00	3.1 Education Assistance: Early Learning	There is a critical shortage of space within the City of Methuen's elementary schools, specifically for the growing pre-k level. The City of Methuen would like to purchase a building located at 9 Branch St. to house a district wide pre-k program. This building is already set up as a learning environment complete with classrooms, kitchen/cafe, playground, gymnasium and adequate parking.