



# City of Revere

**Patrick M. Keefe, Jr., Mayor**

**Christopher Ciaramella**

Superintendent of Public Works

**Nicholas Rystrom, PE, City Engineer**

## New England Civil Engineering Corp.

# Liberty Avenue Neighborhood Drainage Improvements Project

## Project Overview

**Construction is scheduled to start October 2024**

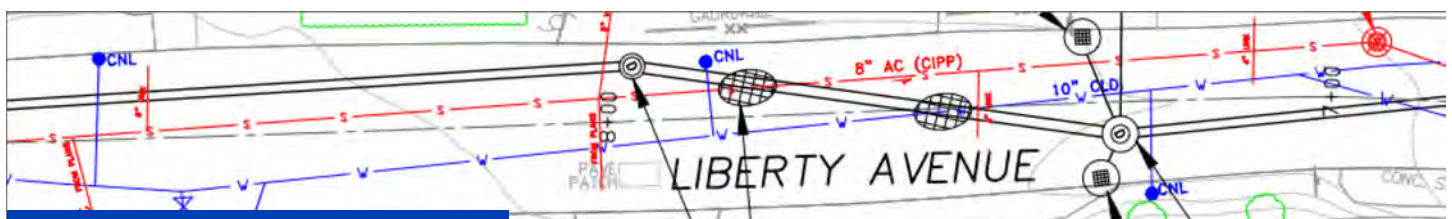
The Engineering Department and Department of Public Works identified the need to improve the stormwater infrastructure in the Liberty Avenue Neighborhood. Specifically, existing undersized stormwater infrastructure causes problems during rain events, resulting in roadway and area flooding. The goal of this project is to install new storm water pipes and structures.

This project includes, but is not necessarily limited to the installation of approximately 1,450 LF of 12"-15" HDPE drain pipe, 17 drain manholes, and 14 catch basins.



Drainage manhole installation.

## Location of Project Work and Summary of Improvements



Example of catch basin and drain manhole layout.

## Water Quality Benefits

The proposed drainage system should lead to an improvement in stormwater quality. Offline catch basins with deep sumps and hoods are credited for a 25% Total Suspended Solids (TSS) removal for the upstream drainage area. The sumps will have the added benefit of reducing the amount of sediment material and floatables reaching the down-stream stormwater collection system by catching and storing these materials upstream. Additionally, hoods help contain oil if any were to spill within the catchment area.

## Stormwater Conveyance Benefits

Based on hydraulic modeling, the addition of new stormwater piping and structures will result in a significant decrease in flooding events in the Liberty Avenue Neighborhood. Additionally, the installation of more storm water structures will increase capacity and decrease sheet flow over the roadway along these streets.

## Schedule

Year	Month	Phase
2024	October – December	Construction
2025	December – April	Winter Shutdown
	May – June	Construction
	Fall	Final Paving



## Questions?

**For questions related to this project, contact:**

**Nicholas Rystrom, PE**

City Engineer

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