

Mr. Michael Maglio, PE
Town Engineer
Franklin Department of Public Works
257 Fisher Street
Franklin, MA 02038

Subject:
Proposal for Engineering Peer Review
and Sewer Capacity Assessment for
Proposed Development at 444 East Central Street

Arcadis U.S., Inc.
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Wakefield
Massachusetts 01880
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Mr. Maglio:

Arcadis is pleased to submit the attached Agreement to assist the Town of Franklin with the peer review and evaluation of the sanitary sewer system for the proposed development at 444 East Central Street. The proposed Agreement will become a contract between Arcadis and the Town of Franklin.

Our evaluation and recommendations will pertain to the development's on-site gravity sewer system, the projected additional flows to be generated by the development, and the impacts to the Town's receiving collection system, including the East Central St. and Milliken Ave. Pump Stations.

The proposed sewer system and development are shown on the design plans titled, "Civil Site Plans for 40B Multi-Family Site Development, 444 East Central Street, Franklin, MA", prepared by Allen & Major Associates, Inc., dated February 11, 2025".

WATER

Date:
April 18, 2025
Contact:
Scott Haynes, PE, BCEE

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Scott.Haynes@arcadis.com

Our ref:
Opp. 103074364

Project Understanding

We understand the proposed residential development at 444 East Central Street (Development) consists of 264 residential units, comprising 432 bedrooms, housed in 5 buildings, plus a clubhouse, that will have a gravity sewer system flowing to the Town collection system in East Central Street, tributary to the East Central Street Pump Station (ECSPS), which is tributary to Milliken Ave PS. The Town has requested a peer review of the sanitary sewer of the proposed development, including an evaluation of the development's effects on the downstream sewer system and pump stations.

Scope of Services Summary

Arcadis proposes to complete the following four (4) tasks under this Contract.

- Task 1 – Review of Conceptual Design Plans
- Task 2 – Review of Design Flow Calculations
- Task 3 – Existing Sanitary Sewer and Pump Station Capacity Analysis
 - Includes a drawdown testing of ECSPS or four-week flow metering program
- Task 4 – Meetings and Summary Letter Report

Detailed Scope of Services

Task 1 – Review of Design Plans

Arcadis will review the above-referenced design plans, prepared by Allen & Major Associates, Inc., dated February 11, 2025. The focus of the review will be on the general design and layout of the proposed sanitary sewer system.

Task 2 – Review of Design Flow Calculations

Arcadis will review projected flow calculations provided by the developer. We understand that the flow projections will be based on Massachusetts Title V regulations (310 CMR 15.00).

Task 3 – Existing Sanitary Sewer and Pump Station Capacity Analysis

Arcadis will review available record drawings and pump station information to determine the design conveyance capacity of the receiving sewers and the ECSPS immediately downstream of the proposed sewer connection point on East Central St. We will evaluate previously measured (metered) and current flows within the Town's existing sanitary sewer system and at the pump station to determine if sufficient excess capacity exists to convey the additional flows from the proposed development. This analysis will include either drawdown testing at the ECSPS by Arcadis personnel or a short-term, four-week flow metering program by our subconsultant to determine current flows conveyed to and pumped by the ECSPS.

We will also evaluate recent and current information available from the Town pertaining to flows and operational performance of the Milliken Ave. PS. This effort will consist of collecting and evaluating relevant and available information from the Town regarding any back-ups, overflows or other capacity-related issues experienced at the Milliken Ave. PS or within collection system immediately tributary to or downstream of the PS.

Task 4 – Summary Letter Report

Arcadis will provide a Final Letter Report summarizing our evaluation and recommendations from Tasks 1 - 3. We will also meet with the Town and representatives of the developer, if necessary, to obtain information and discuss the Report recommendations.

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Fee and Schedule

Arcadis proposes to complete the work described in Tasks 1 through 4 for a lump sum fee of \$32,000.

Arcadis will begin work on this project upon receipt of an executed Agreement or notice to proceed. Assuming timely receipt of all required information, and barring any unforeseen delays, we anticipate delivering the Summary Letter Report within four (4) months of commencement.

We appreciate the opportunity to submit this proposal and look forward to continuing to assist the Franklin Department of Public Works with your on-going efforts to operate, maintain, and expand your sanitary sewer system.

Sincerely,

Arcadis U.S., Inc.



Scott R. Haynes, PE, BCEE
Vice President

Copies:

Doug Martin, PE, Water and Sewer Superintendent – Town of Franklin
Stephen Perry – Arcadis

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