

TOWN OF ORLEANS

Select Board

- ◇ Kevin F. Galligan, Chair
- ◇ Mefford R. Runyon, Vice-Chair
- ◇ Mark W. Mathison
- ◇ Cecil E. Newcomb, III
- ◇ Andrea Shaw Reed

Town Administrator

- ◇ John F. Kelly

Board of Water and Sewer Commissioners

- ◇ Richard J. Hartmann, Chair
- ◇ Alan McClennen, Vice-Chair
- ◇ Mark Berson
- ◇ Herbert Kinney
- ◇ John Meyer
- ◇ Robert Rich
- ◇ Len Short

Department of Public Works and Natural Resources

- ◇ Thomas E. Daley, P.E., Director
- ◇ Ronald W. Collins, Facilities Manager

OWNER'S PROJECT MANAGER

- ◇ Ian B. Catlow, P.E.,
Tighe & Bond, Worcester, MA

CONSULTING ENGINEER

- ◇ Thomas E. Parece, P.E.,
AECOM Technical Services, Inc., Pocasset, MA

GENERAL CONTRACTORS

- ◇ Downtown Area WWTF and Effluent Disposal—Contract No. 2019-01
Daniel O'Connell's Sons, Inc., Franklin, MA
- ◇ Downtown Area Collection System and Pumping Stations—Contract No. 2019-02
Robert B. Our Co., Inc., Harwich, MA

WASTEWATER TREATMENT FACILITY MAJOR PROCESS COMPONENTS

- ◇ Influent Screening
- ◇ Septage Receiving Station
- ◇ Pre and Post Equalization Tanks
- ◇ Sequencing Batch Reactors (SBR)
- ◇ Effluent Disk Filters
- ◇ Effluent Pumps
- ◇ Ultraviolet Disinfection Equipment
- ◇ Dual Rotary Drum Thickener
- ◇ Chemical Storage and Feed Systems
- ◇ Odor Control

EFFLUENT DISPOSAL

- ◇ Lots Hollow Road
- ◇ Wicks (Aquifer Recharge)

PERMIT DESIGN DATA

- ◇ Average Daily Flow 350,000 Gallons per Day
- ◇ BOD₅ 30 mg/L
- ◇ TSS 30 mg/L
- ◇ Total Nitrogen 10 mg/L
- ◇ Fecal Coliform 200/100 ml
- ◇ pH 6.5 to 8.5

GROUNDBREAKING CEREMONIES



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Worcester, MA 01608
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**GROUNDBREAKING
CEREMONIES**

DOWNTOWN AREA WASTEWATER COLLECTION SYSTEM, PUMPING STATIONS, WASTEWATER TREATMENT FACILITY AND EFFLUENT DISPOSAL

Orleans, Massachusetts



September 8, 2020 at 10:00 a.m.

Where: Snow Library, 67 Main Street

Please Join Us!!!

A LONG ROAD TO A HEALTHIER ENVIRONMENT

- ◇ 1978 through 2009—Various Wastewater Planning Activities
- ◇ 2011—Comprehensive Wastewater Management Plan (CWMP)/Single Environmental Impact Report (SEIR)
- ◇ 2015—Orleans Water Quality Advisory Panel—Consensus Agreement
 - Combine Traditional Wastewater and Non-traditional Treatments
 - Sewer Infrastructure in High Density Areas
 - Utilize Non-Traditional Technologies (Groundwater Treatment with Permeable Reactive Barriers (PRBs), Increased Shellfish Aquaculture Operations, etc.)
 - Adaptive Management for Course Correction

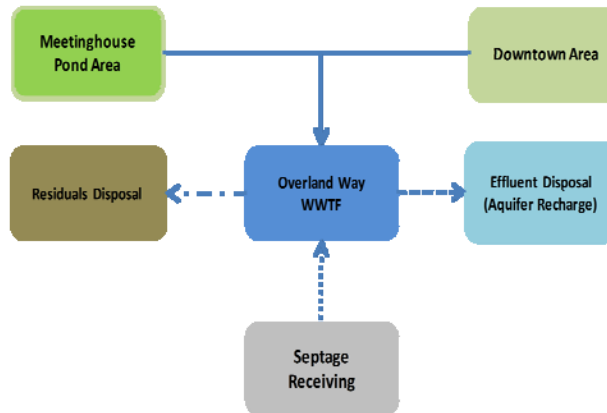
FINANCING AND FUNDING

- ◇ State Revolving Fund (SRF)
- ◇ Hotel/Motel Tax and Short-term Rental Tax
- ◇ Tax on Short-term Rentals
- ◇ Stabilization Fund
- ◇ Cape Cod & Islands Water Protection Fund
- ◇ WWTF and Effluent Disposal Paid Via Local Tax
- ◇ Collection System and Pumping Stations Paid Via Betterments Charged to Users

DOWNTOWN AREA COLLECTION SYSTEM COMPONENTS

- ◇ Approximately 36,200 Linear Feet of 8-inch through 18-inch PVC Gravity Sewer
- ◇ Approximately 12,400 Linear Feet of 6-inch and 8-inch PVC and HDPE Force Main
- ◇ Approximately 2,100 Linear Feet of 2-inch Low Pressure Sewer
- ◇ Piping System Connected Under Route 6
- ◇ 3 Submersible Pumping Stations
- ◇ 1,090 Users will be connected into the system with about 60 privately owned and maintained grinder pumps.

WASTEWATER TREATMENT FACILITY FLOW SCHEMATIC



PROJECT SCHEDULE

BIDDING PHASE

- ◇ Collection System Bids Submitted: 05/06/2020
- ◇ Wastewater Treatment Facility Bids Submitted: 05/13/2020
- ◇ ATM Supplemental Funding: 06/20/2020
- ◇ Supplemental Funding Ballot Question: 06/23/2020
- ◇ Received MassDEP "Approval to Award": 07/20/2020
- ◇ Executed Contracts: 08/05/2020

CONSTRUCTION PHASE

- ◇ Wastewater Treatment Facility Construction Begins: 09/08/2020 Completed: June 2022
- ◇ Collection System Construction Begins: 09/08/2020 Completed: September 2022



GROUNDBREAKING CEREMONIES

For Additional Information:

<https://www.town.orleans.ma.us/department-of-public-works-and-natural-resources/sewer-construction-information>