

COMBINED SEWER OVERFLOW ELIMINATION – BAY ST.

TOWN OF ST. JOHNSBURY, VERMONT



New Sewer Main Installation, Eliminating a CSO Connection



Water Main Relocation Required for New Utilities

The Combined Sewer Overflow Elimination Project was an infrastructure improvement project funded using a 65% Clean Water State Revolving Fund Loan and a 35% Drinking Water State Revolving Fund Loan intended to address State and Environmental Protection Agency mandates to separate combined storm and sanitary sewer.

Change order #10 was drafted under the original Combined Sewer Overflow (CSO) Elimination contract in order to separate an area of combined sewer that has been known to be troublesome during times of heavy rainfall and high sewer flow.

The project included installing a new storm drain outfall and 36-inch diameter HDPE storm drain, 15-inch diameter SDR-35 PVC sewer main and service connections for sanitary and storm. The project required relocation of the existing water main to allow installation of the new utilities, meeting required separation distances.

The project included road subbase reconstruction in areas of disturbance, regrading of existing features to allow proper site drainage, and surface restoration with base course and wearing course asphalt.

Dufresne Group provided preliminary planning, engineering design and construction management with Resident Project Representation for this additional contract work.

KEY FEATURES:

- Coordination with property owners for construction and permanent easements.
- 360 lf of 15-inch SDR 35 PVC sewer main and 440 lf of 36-inch HDPE storm drain.
- A new storm drain outfall was constructed to calm stormwater before entering the Passumpsic River.
- Construction completed on time and within budget.
- Valves for improved isolation of sections of the water distribution system.