

AIRPORT HILL WATER STORAGE TANK ACCESS ROAD

TOWN OF ST. JOHNSBURY, VERMONT



Access Road



Infiltration Chamber Installation

The Airport Hill Water Storage Tank project replaced an existing painted steel water storage tank located in the St. Johnsbury/Lyndonville Industrial Park with a new 0.5 MG glass-fused-to-steel water storage tank. The existing tank was located too low to provide adequate fire protection to much of the Industrial Park and northern sections of St. Johnsbury's water system, so a new site located further up the hill was identified. Dufresne Group worked with the Town and a private land owner to purchase the new tank site and an easement for a new access road. The road and water storage tank were constructed in 2009.

The 1,250 linear foot access road was designed to match existing topography of the site to balance cut and fill quantities and limit disturbance as much as possible. The new gravel road includes 18 inches of crushed gravel, new stone lined ditches and a stormwater treatment site that utilizes highly permeable soils located on a parcel of land previously owned by the Town of St. Johnsbury to meet the requirements of the General Stormwater Permit.

KEY FEATURES:

- Steep topography at the site limited the space available for stormwater treatment.
- Infiltration system met AASHTO requirements for live load, allowing the tank access road to be installed on top of the chambers.
- Project funded using 75% USDA Rural Development Grant Funds.