The Rental Car Quick Turnaround (QTA) facility at the Burlington International Airport in South Burlington, VT, is one of BTV’s major landside improvement projects completed in 2020. This new multi-acre facility consists of a QTA Building, a QTA Fueling Facility and space for processing 100s of rental cars daily. This new, state-of-the-art facility replaces the three (3) separate aging rental car facilities previously located at the airport and consolidates their vehicle cleaning, fueling and preparation activities in one place.

The 12,000 sf QTA Building consists of car wash bays, employee facilities, office space and related equipment to support the multiple rental car brands at BTV. One of the major building features include new car wash bays to replace the aging facilities operated by individual car rental brands. Unique design features such as water reclaim and treatment systems were added to provide efficient and environmentally friendly car wash systems. Special radiant heating systems, high speed doors and temperature control systems provide added safety and reduced heat loss in winter. The water treatment and reclaim systems save approximately 7,500 gallons a day compared to older systems.

In addition to the QTA Building, the facility includes a new fueling and vehicle preparation area. The QTA fuel system reduces the previous environmental risk by replacing three (3) aging gasoline fueling facilities with a single modern system complete with state of the art environmental monitoring, controls, corrosion protection and fire protection systems. By removing the three (3) aging fuel systems, BTV was able to reduce the frequency and proximity of fuel deliveries near the secure areas of the airport as well as reduce the risk of spills. The QTA includes twelve (12) fueling positions at six (6) dispensers under a canopy complete with a dry chemical fire protection system. Each fuel area is equipped with a vacuum, compressed air and washer fluid system providing a “single position” where rental car employee can efficiently prepare vehicles for BTV customers.

American Council of Engineering Companies - Vermont Section
2021 Engineering Excellence Awards
Entry Category: A - Buildings, Structures & Support Systems

Car wash facility includes environmentally-friendly water reclaim and treatment systems

QTA Building supports multiple rental car brands in one location

Modern refueling facility includes state-of-the-art environmental monitoring, corrosion protection, and fire protection systems

Underground stormwater chambers located under parking lot treat runoff and reduce large storm peak flow discharges