

Project Scope:

Great Northern Engineering has multiple completed and ongoing tank farm, fueling system, and other projects to support the continuing work at Ted Stevens International Airport. The work includes: fueling vaults, piping, tank coating, tank inspections / repairs, fire and gas systems, and taxiway improvements. GNE engineers have been the engineers of record at the airport for more than 20 years.

Project Detail:

- Provided the IFC design and construction support for a \$25 million, 300,000-barrel storage facility at Ted Stevens International Airport.
- Provided the IFC design and construction support for a large expansion to the GNE designed jet fuel storage facility at Ted Stevens International Airport.
- Provided designs on multiple occasions for new fueling pipelines and modifications to existing pipelines. Work included IFC designs, coatings, valves, fueling vaults, taxiway and road crossings, hydrotesting, and subsequent inspections as required.
- Provided the IFC design for a new "Taxi-Thru" Remote Fueling Apron that will accommodate three 747's or five 757's for overnight parking and refueling service. An addition to the work included design accommodations for Group VI aircraft (Antonov AN-124).
- Provided API 570 and 653 inspections and reporting for fuel storage and other tankage on multiple occasions. Inspections included facilities at the airport and offsites locations.
- Provided the IFC design for reconstruction of Gates B1, B3, and B5. The work was coordinated with facilities engineers and DOT.
- Provided the design for the Taxiway Romeo and Victor reconstructions. The work was coordinated with DOT.
- Provided IFC design and specifications on multiple occasions for piping, pipelines, and tanks throughout the airport and offsites locations.
- Provided the IFC design for the airport fire suppression system and firewater storage tanks and piping.
- Provided designs, reports, and support for multiple small and medium sized projects at the airport and it's offsites locations. Scopes included: SPCC Plans, survey, improvement studies, fuel system scoping, geotech reports, settlement analysis, seismic considerations, asphalt and roads, pipeline designs and repairs, pipeline relocations, pipeline casings, coatings, road and river crossings, railroad crossings, maintenance pits, tank liners, leak detection, venting and PSVs, inspections, AFFF analysis, UT and Magnaflux inspections, valve boxes, fueling vaults, UPS, ramps, cranes, demolition plans, hydrant pits and piping, electrical, meters, rental car center improvements, and as-builts.

