JJM Construction Ltd.

Building Infrastructure
Building Value
Building Relationships
Building Engagement
Building Safety
We have successfully completed:

- over 1,000 major construction projects in B.C., Alberta and the Pacific Northwest
- projects ranging in value up to $64 million and with a total unadjusted value over $1.3 billion
- large infrastructure projects such as highways, bridges, ferry terminals, and airport improvements
- industrial/commercial site development
- demolition and landfill closures
- sanitary sewer and water mains upgrades and improvements
- environmental remediation projects
- marine structures and dredging
- foundation preparation and ground improvements

About Us

The JJM motto, Building to Last, is about more than simply completing quality work for our clients. It’s also about building infrastructure that strengthens communities; building value for our clients through innovative and cost effective solutions; supporting the cultures of the communities in which we live and work; and building an internal culture of engagement that supports our core values of safety, quality, environmental protection, honesty and integrity, commitment, entrepreneurship, accountability, and stewardship.

JJM Construction Ltd. (JJM) is one of British Columbia’s leading heavy civil and marine construction contractors. Although established in 1988, the JJM story began in the mid 1940’s, as a Miller Entity, and the company has since grown into one of B.C.’s premiere civil and marine contractors. JJM’s senior management team has a wealth of construction and management experience with a strong core of experienced project managers, superintendents, field engineers and coordinators, backed by seasoned technical and administrative support staff, and by the latest technologies. JJM has well-established safety, quality control, and environmental management programs that are integral to project delivery. We are COR certified, a recipient of the B.C. Ministry of Transportation and Infrastructure Grading Contractor of the Year Award, and a recipient of the Canadian Construction Association’s Environmental Achievement award. We also maintain membership in the Canadian Construction Association, the B.C. Road Builders & Heavy Construction Association, and the Canadian Welding Association.

With broad-ranging experience in highway and bridge construction, civil infrastructure, site preparation, highway maintenance, marine dredging, marine construction, and material handling placement, JJM will continue to build a tradition of quality and innovation in construction on both land and water.
Heavy Civil Construction

JJM has experience and expertise with a variety of heavy civil projects including major bridges, overpasses, highways, roads, site preparation, excavation, reinforced walls, underground utilities and major land development.
Road, Rail and Utility Corridor, Ridley Island – Prince Rupert, B.C.

The Road, Rail and Utility Corridor Project on Ridley Island in Prince Rupert, B.C., was a key site development used to maximize the opportunity for large bulk terminals within the Port of Prince Rupert. This development significantly increased the Port’s bulk material transshipment capacity.

JJM Construction Ltd. formed and led a limited partnership with Emil Anderson Construction Inc. and Coast Tsimshian Enterprises (Lax Kw’alaams and Metlakatla First Nations) for this project which began work in 2013 and took 24 months to complete.

An 8 kilometre road, rail and utility loop was constructed immediately south of the active Ridley Terminals Coal Port facility.

The JJM led partnership succeeded in maximizing local hiring and training, particularly from First Nations communities, with an 80% local workforce, of which nearly 70% were First Nations community members.

Work included:

» 47.6 hectares of land clearing
» 850,000 cubic metres of muskeg removal
» levelling and building approximately 50% of the grade
» construction of a concrete rail underpass
» approximately 1.2 million cubic metres of rock blasting and relocation
» construction of 2,035 metres of watermain
» construction of a 69 kilovolt overhead powerline extension
The South Surrey Interceptor collects sewage from South Surrey and Langley, and conveys it to the Annacis Island Wastewater Treatment Plant in Delta. Metro Vancouver selected JJM Construction Ltd. to construct the first two phases of the South Surrey Interceptor Twinning – Trites Road Section project designed to increase the capacity and life span of the Interceptor and accommodate population growth. JJM began construction in fall 2010 with the pipe installation completed in February 2012, and site restoration work completed in autumn 2012.

In July 2015, Metro Vancouver awarded JJM the contract for another phase of the South Surrey Interceptor Twinning Project – JJM’s fourth contract on this key piece of infrastructure – for the Johnston Road Section Advance Works at 14933 Colebrook Road and King George Boulevard crossing. This phase presented timing challenges as the work needed to be completed before the traffic volumes increased for the back to school season in September.

JJM’s successful completion of these projects demonstrates our ability to deliver cost-effective and innovative solutions for constructing a high quality pipeline, dewatering systems and mass excavation in extremely difficult locations. We successfully performed the work in environmentally sensitive areas by managing water turbidity levels from multiple dewatering systems whose discharge entered a Fisheries and Oceans Canada regulated watercourse, and by effectively coordinating with other contractors and private property owners to overcome site access challenges and maintain good relations with affected home owners.

**Work included:**

**Trites Road Section**
- phase 1 installation of 1,250 m of 3,050 mm diameter PVC-lined concrete pipe
- phase 2 installation of 1,680 m of the 3,050 mm diameter pipe
- 149 m of 1,830 mm PVC-lined concrete pipe
- deep trench excavation
- relocation of almost one dozen fish-bearing streams
- multiple tie-ins to existing sewer and services
- work adjacent to environmentally sensitive areas and Blue Heron nesting sites
- extensive site restorations as the right-of-way passed through multiple private properties

**Johnston Road Section**
- the installation of nearly 500 m of owner-supplied 3,050 mm diameter PVC-lined pre-cast concrete sewer pipe, approximately 75 m of which was installed in an open-cut trench crossing of King George Boulevard, a major traffic artery in the City of Surrey
- placement of polystyrene panels (up to 3 m in thickness) and lightweight pumice backfill to reduce ground pressures on the existing 14 m x 17 m concrete box sewer line that is the original South Surrey Interceptor
With nearly 30 years of marine experience and one of the larger marine fleets in western Canada, JJM can handle a wide range of dredging and marine construction projects including installation of underwater utilities, rock breakwaters, surveying, dock construction, environmental remediation, dredging and channel maintenance.
Replacement of the Five Finger Marine Outfall – Nanaimo, B.C.

The Greater Nanaimo Pollution Control Centre (GNPCC) services approximately 93,000 residents from the City of Nanaimo, Snuneymuxw First Nation and parts of the District of Lantzville. Effluent from the GNPCC is discharged into the Georgia Strait through what is known as the Five Fingers Marine Outfall. Growth in the region necessitated upgrades to the outfall to extend its lifespan and increase capacity.

A joint venture, JJM Construction Ltd. and McNally Construction Inc., completed a portion of the work between December 2015 and August 2016.

Careful coordination and cooperation with all stakeholders was required to minimize the impact of construction on the public as work for this project took place at different sites, including Nanoose Bay within the Nanoose First Nation Reserve, and Hammond Bay in Morningside Park, an active public space adjacent to an elementary school.

Work included:

» the supply and installation of just over 2 kilometres of 1372 mm diameter HDPE pipe, complete with associated anchors and fittings
» underwater drilling, blasting and excavating necessary to create a trench for the outfall transition between land and sea
» preparation of the outfall pipe involved fusing together HDPE pipe sections and keeping the assembly airtight allowing it to float on the water while concrete weight components were attached
» creation of two assemblies approximately 1800 metres and 200 metres in length, respectively
» the towing of these assemblies to the installation site at Hammond Bay, which were then joined together, carefully sunk into position, and tied into the on-shore section to form the completed outfall
Colwood Jetties Remediation
Colwood, B.C.

Esquimalt Harbour is an active industrial harbour in Colwood, B.C. that has been the location of Pacific naval operations for over 150 years. As a part of remediation efforts JJM Construction Ltd. was awarded a contract to clean up contaminated sediments at multiple jetties along the Colwood side of the harbour. Dredge material within the work site was contaminated with various chemicals of concern, debris, unexploded explosive ordinance (UXO) and munitions scrap (MS), as well as historically and archaeologically significant material.

JJM self-performed the contaminated sediment dredging activities using an RTK-GPS controlled EX1800 excavator mounted on a spud barge to provide precise elevation and positional control during dredging. With this, and JJM’s in-house multibeam survey capabilities, the bathymetry was updated on a regular basis to ensure accurate dredging. Contaminated sediments were dredged to JJM’s sealed hopper barges, which provided an ideal containment solution for contaminated sediments pending screening and dewatering. Additionally, stringent water quality objectives were met during all dredging activities and the project was completed within schedule and under budget.

**Work included:**

- dredged, dewatered and disposed of over 19,500 m³ of contaminated sediments
- replaced the contaminated sediment with 14,200 m³ of clean imported aggregates
- the removal and replacement of a jetty fendering structure
- managing technical challenges involved with the implementation of complex technology for the sorting, screening and dewatering of materials to segregate suspected UXO, MS and historically and archaeologically significant material
- treatment of contaminated water generated during dredging activities
Safety
Quality
Environmental Protection
Honesty and Integrity
Commitment
Entrepreneurship
Accountability
Acknowledgement
Stewardship