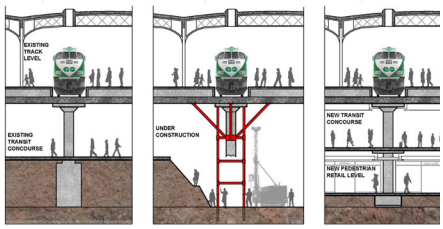
NORR | Transportation



Union Station Revitalization Project

An extraordinary architecture and engineering revitalization at Canada's busiest transit hub

Union Station is the busiest transit hub in Canada. In 2006, the City of Toronto required a revitalization plan to: expand and enhance the multi-modal hub to accommodate the expected growth, from 70 million passengers a year to a projected 90 million passengers by 2036; restore and renovate the National Historic Site, the most important Beaux-Arts railway station in Canada and; create a destination, commercial retail hub.

NORR was selected to lead the project and is developing the most technically innovative architecture and engineering solution to ever be implemented at this scale in Canada. The expansion, work is where it matters the most at four meters below its basement level. Covering one full city block, the Revitalization project is equivalent to one million square feet, from Bay Street to York Street and from Front Street to Maple Leaf Square. The project features two new 50,000 square foot concourses, flanking the existing central concourse, alleviating the physical constraints of the existing heritage envelope. At the north end, is the completely restored Great Hall flanked by four-story east and west wings that have been completely renovated for modern office use. The design ensured that Metrolinx (Ontario's regional transit network) and Via Rail (Canada's passenger train service) operations were maintained and that the connection to the Toronto Transit subway station was uninterrupted during construction.

Union Station opened in 1927. Until the 70's, the Station was the major gateway for immigrants into the City of Toronto changing operation to a local train operation with the inception of Go Transit as the Ontario commuter train system into Toronto which has grown exponentially over the years. The innovative expansion will ensure that the projected 90 million passengers will be accommodated in the future.

CLIENT	City of Toronto
PORTFOLIO	Transportation
CATEGORY	Multimodal Transit Hub
SIZE	936,000 SF (86,957 SM)
LOCATION	Toronto, ON, Canada
DATE	2020
SERVICES	Architecture MEP Engineering Structural Engineering Interior Design

View Online

Transportation

NORR's Transportation Studio develops aviation, transit and multimodal hub solutions for clients around the world. We understand the needs of government and private operators to maintain, upgrade and provide new transportation services and supporting infrastructure. Our design solutions are purpose-driven to build better, more efficient and environmentally friendly transportation nodes that incorporate flexibility for future system expansion.

Integrated Designs for Aviation

We have proven experience in all aspects of airport design, engineering and operations, from curbside to airside. Our dedicated global team has designed and managed complex projects for the transportation industry, including terminal buildings, parkades, maintenance and training hangars, de-icing facilities, runways, taxiways, aprons and satellite space hubs. Our design work extends to master planning, interior reconfigurations, lounges and retail buildouts. We've been involved in multiple prestigious projects located worldwide, beginning in 1964 with Canada's largest airport, Toronto Pearson International Airport.

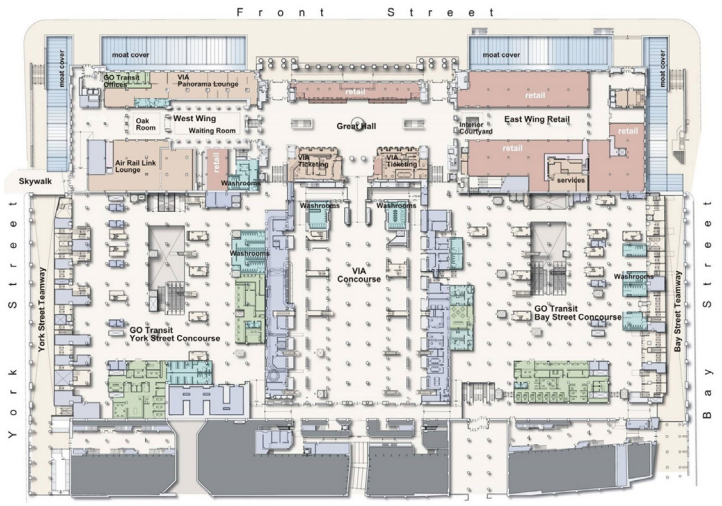
Managing the Complexity of Transit Projects

Public transit, including subway and light rail transit, is vital to a healthy sustainable city. At NORR, we work collaboratively with all levels of government and private operators to provide planning and programs that increase capacity, eliminate spatial and technical limitations on balance with financial realities.

We have developed a framework for detailed project phasing and staging strategies, for design implementation through to construction that has the least impact on the system and traffic flow.

Multimodal Transit Hubs

All levels of government are looking to move people and goods through multimodal transit hubs providing more options, enhanced service and increased efficiencies. We continue to be at the forefront of planning, designing and implementing projects that include regional transit, railway and ferry terminals, as well as border crossings. Our experience goes far beyond design and engineering. Today, the reduction of carbon emissions, elimination of noise pollution and resolution of other environmental issues are all integral aspects of our work.



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