



Cooksville GO Transit Hub Redevelopment

Reimagining a modern transit hub

Metrolinx, an agency of the Government of Ontario, in partnership with Infrastructure Ontario, identified a need to transform Cooksville GO Station into an efficient, modern transit hub, making it easier for customers to access the station and GO Transit services. NORR provided detailed architectural, structural, mechanical, electrical, passenger flow and garage facility design, as well as compliance review services, working in collaboration with WalterFedy, the Architect of Record.

NORR managed the design of the transit hub through an extensive review process by the Joint Design Review Panel (JDRP) comprised of members from Metrolinx Design Excellence panel and the City of Mississauga Urban Planning. The design services encompassed the development of the Reference Concept Design package and detailed output specification (PSOS) schedules for a public-private partnerships (P3) delivery model. The facility features a new station and pavilion waiting area, upgraded pedestrian tunnels and rail platforms, a bus loop, kiss & ride, a large civic plaza and a 1900 commuter parking structure with pedestrian bridge access to rail platforms.

The design concept for the six-story parking structure features a layered envelope strategy to overcome the mundane nature of the typical parking structure as well as to provide a shield from car headlights for the surrounding residential development. The precast structure is wrapped by a sculptural veil of expanded aluminum mesh which is inflected and fractured by the vehicle entry points, the glazed vertical circulation towers and pedestrian bridge connection to the rail platforms. This larger folding texture of the facade is complemented by a finer texture of vertical slot openings that provides visual interest at the pedestrian level and from surrounding buildings as well as views from within the structure. Inside the sculptural veil resides an additional inner skin of woven stainless-steel mesh that serves as a guard for pedestrians, while a tension cable system serves as a car barrier. This multi-layered system serves to maximize the level of natural light and air entering the building while at the same time mitigating light spillage onto neighboring residential properties. The result is a dynamic facade treatment that both obscures and reveals an otherwise typical parking structure and the vehicular circulation within it.

The design creates an urban landmark and defines the edge of a new public plaza responding to both present development as well as anticipated future residential and commercial densification.

CLIENT	Metrolinx
PORTFOLIO	Transportation
SIZE	652,236 SF (60,599 SM)
LOCATION	Mississauga, ON, Canada
DATE	2020
SERVICES	Architecture MEP Engineering Structural Engineering

AWARDS

- 2021 International Parking & Mobility Institute (IPMI) Award – Excellence in Architectural Design
- 2021 – World Architecture Community Awards – Architecture – Realised
- 2021 – Mississauga Urban Design Awards – People's Choice Awards, Public Projects

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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