

The 2023 Trillium Awards spotlight the outstanding work of SWA's members throughout the industry. Congratulations to this year's nominees for their successful projects and the following winners for their exceptional achievements.



**WINNER:
NEW CONSTRUCTION**

Ontario Court of Justice



Manufacturer:
DRE Industries/
CETCO

Consultant:
NORR Architects
and Engineers

Contractor:
Bothwell-
Accurate Co Inc.

Bothwell-Accurate Co Inc. and its project partners received top honours during the 2023 Trillium Awards for their work on the new Ontario Court of Justice. In collaboration with NORR Architects and Engineers, Renzo Piano Building Workshop, and DRE Industries/CETCO, the team created a state-of-the-art facility to host six criminal courts under one roof.

Located at 10 Armoury Street, the new facility features 63 courtrooms, ten conference settlement rooms, and other key courthouse features (e.g., prisoner holding facilities, in-custody transport services, security provisions). In addition to being designed as the most accessible courthouse in Ontario, the new Ontario Court of Justice is an energy-efficient and eye-catching addition to the neighbourhood, featuring a 20-metre-tall atrium enclosed by a transparent glazed façade, a two-story landscaped courtyard, a roof with photovoltaic panels, and displays of archaeological discoveries made during the construction.

A winning verdict

Significant planning and project coordination were required to meet the high waterproofing requirements. As the team's award submission explains: "Due to the below grade spaces housing critical occupied space for judges' quarters, judges' parking, holding cells, and mechanical and electrical rooms ... NORR Architects not only needed a quality below grade waterproofing product but also support throughout the design phase as well as skilled installers."

Bothwell-Accurate proved to be a fitting partner for the task. As for waterproofing material, NORR selected CoreFlex 60 for its "many outstanding physical characteristics," including the material's durability, dual membrane properties of a 60 mils welded membrane, meaningful warranty, and other beneficial traits.

“The reliability of the CoreFlex 60 was well understood by the consultant team based on past projects,” the submission notes. “The strong level of product and installation that was supported by the manufacturer permitted the design team to collaboratively solve difficult detail conditions for the application. Moreover, the extensive experience using the product locally promised that a high-calibre of workmanship in the application was possible.”

A complex case

With over 70 project-specific details provided, the Ontario Court of Justice project presented the team with several challenging considerations. These included the fact that the building shared a wall with an adjacent property, requiring blind side termination to accommodate the limited space between the two buildings and meeting requirements like boxed out tiebacks, concrete pump support box outs, multiple penetrations, and contour airshafts.

“The contour air shafts were particularly challenging due to the irregular and non-linear shape,” says the team. “Unlike straight walls or flat surfaces, the shafts’ curvature



and varying dimensions required customized waterproofing solutions that could adapt to the changing contours.”

Ensuring effective drainage was also a key consideration. The design of the waterproofing system had to account for proper water management within the curved or sloped surface of the contour air shaft.

Reflecting on the project as a whole, the team states: “Waterproofing for this project required a combination of specialized design, customized materials, meticulous execution, and adaptability to the unique conditions of the project.”

All rise

It was truly a collaborative effort that brought the Ontario Court of Justice to life. That includes Bothwell-Accurate’s precision and quality craftsmanship, DRE/CETCO’s renowned waterproofing solutions and expertise, NORR’s innovative and inspired design, and the dedication of the construction trades.

“Their skilled teams navigated the challenges posed by the complex design of the Courthouse,” says the team. “Through careful planning and precise implementation, Bothwell-Accurate ensured that every corner of the courthouse was fortified against potential water damage, contributing to the facility’s long-term resilience; while NORR Architects played a vital role in envisioning the New Toronto Courthouse’s aesthetic and functional aspects.”

Together, submission notes, “the collaborative efforts of DRE/CETCO, Bothwell-Accurate, and NORR Architects yielded a triumph of architectural and engineering prowess, delivering the Ontario Court of Justice as a testament to innovation, durability, and a commitment to excellence in design and construction.”