

Landscape Architecture

Volume 2

Introduction

Stantec Landscape Architecture restores infrastructure in all its forms, creating vibrant public spaces, linking communities through multi-modal networks and greenways, enhancing community health and wellness, and building resilience along our most vulnerable coastlines. To celebrate the work of our award-winning team, we are pleased to present Stantec Landscape Architecture Volume 2, a compilation of projects underway and recently accomplished by our global practice for communities around the world.

As designers, we provide creative and innovative solutions through thoughtful design and interdisciplinary collaboration. We complement public and private sector investment in the physical, environmental, and social infrastructure that support our lives. With today's emphasis on smart cities, suburban downtowns, community health and well-being, transportation and mobility, resiliency, and equal access to quality open space, we are extraordinarily excited for the opportunities and challenges before us and doing our part in making our world a better place for all.

Enjoy!

A handwritten signature in blue ink, appearing to read 'Gary Sorge', with a long horizontal flourish extending to the right.

Gary Sorge, FASLA, CSLA, AICP
Vice President
Stantec

Featured Work

Abiomed Headquarters | Danvers, Massachusetts

Kaiser Permanente Downtown Commons MOB | Sacramento, California

National Instruments Amenity Courtyard | Austin, Texas

Phillips Square Park | Boston, Massachusetts

Place Jean-Béliveau Square | Québec City, Québec

Galatyn Commons | Richardson, Texas

MarketStreet Lynnfield | Lynnfield, Massachusetts

Hills of Charlesworth Sustainability Plaza | Edmonton, Alberta

The Domain II Renovation | Austin, Texas

The Albany Skyway | Albany, New York

East Midtown Greenway | New York, New York

Burlington Vermont's Great Streets Implementation | Burlington, Vermont

Summers Corner | Dorchester County, South Carolina

Villano Park and Rochford Field | Hamden, Connecticut

Hillside Park | Rancho Cordova, California

Back to the River International Design Competition | London, Ontario

Newmarket Trailhead Park and Trail System | Newmarket, Ontario

Gil Hodges Community Garden | Brooklyn, New York
Boulder City Bypass | Boulder City, Nevada
Jones Beach State Park Gateway Signage | Wantagh, New York
Cap-Rouge Memory Wall | Québec City, Québec
Place du Citoyen | Saguenay, Quebec
West Lot | Denver, Colorado
Lac aux Castors | Montréal, Québec
Parachute Way Plaza at Coney Island | Brooklyn, New York
Governors Island Slide Hill | New York, New York
Lynch Family Skate Park | Cambridge, Massachusetts
Women's Health Pavilion | Kigutu, Burundi
National Centre for Cancer Care and Research | Doha, Qatar
Sarasota Memorial Hospital Courtyard Tower | Sarasota, Florida
Mackenzie Vaughan Hospital | Vaughan, Ontario
Tottenville Shoreline Protection Project | Staten Island, New York
Swimmable Charles | Boston & Cambridge, Massachusetts
Portland Landing | Portland, Maine





Abiomed Headquarters

Danvers, Massachusetts

When medical device innovator Abiomed received approvals from the Federal Drug Administration for its Impella heart pump, the company was met with a need to grow its headquarters.

Stantec landscape architects were contracted to help create a state-of-the-art headquarters to showcase Abiomed's work and to reflect the company's brand and position in the market. The completed project would accommodate hundreds of new employees and visitors while creating enhanced work, research, training, and amenity spaces to stay ahead of medical advancements and a growing demand for their products.

The expanded facility includes a new signature entrance and vehicular drop-off area equipped with a snow and ice melt system for safe operation in winter months. Other new amenities include a market-style cafeteria, an outdoor kitchen and seating area, and a walkway connecting these amenities to the new entrance. The boldly-colored patio offers an outdoor grill, fire pit tables, and lounge seating nestled among a wooden trellis and lush, green plantings.

Nearly all consultants on the design team, including landscape architects, architects, engineers and lighting designers, are from Stantec, creating an ease of collaboration between disciplines that reflects in the finished work. Our successful collaboration is most evident in the flow between interior and exterior spaces of Abiomed's new headquarters, resulting in a campus that is both beautiful and highly functional.









Kaiser Permanente Downtown Commons MOB

Sacramento, California

When we were asked to help reimagine a dated vacant office building with a gloomy relationship to its urban context as a welcoming vibrant space for healthcare in the heart of a downtown core, our eyes lit up. In Sacramento, our landscape architecture studio collaborated with Kaiser Permanente and a talented team of designers, contractors, and their sub-trades to bring modern convenience and personal care into the city's downtown renaissance.

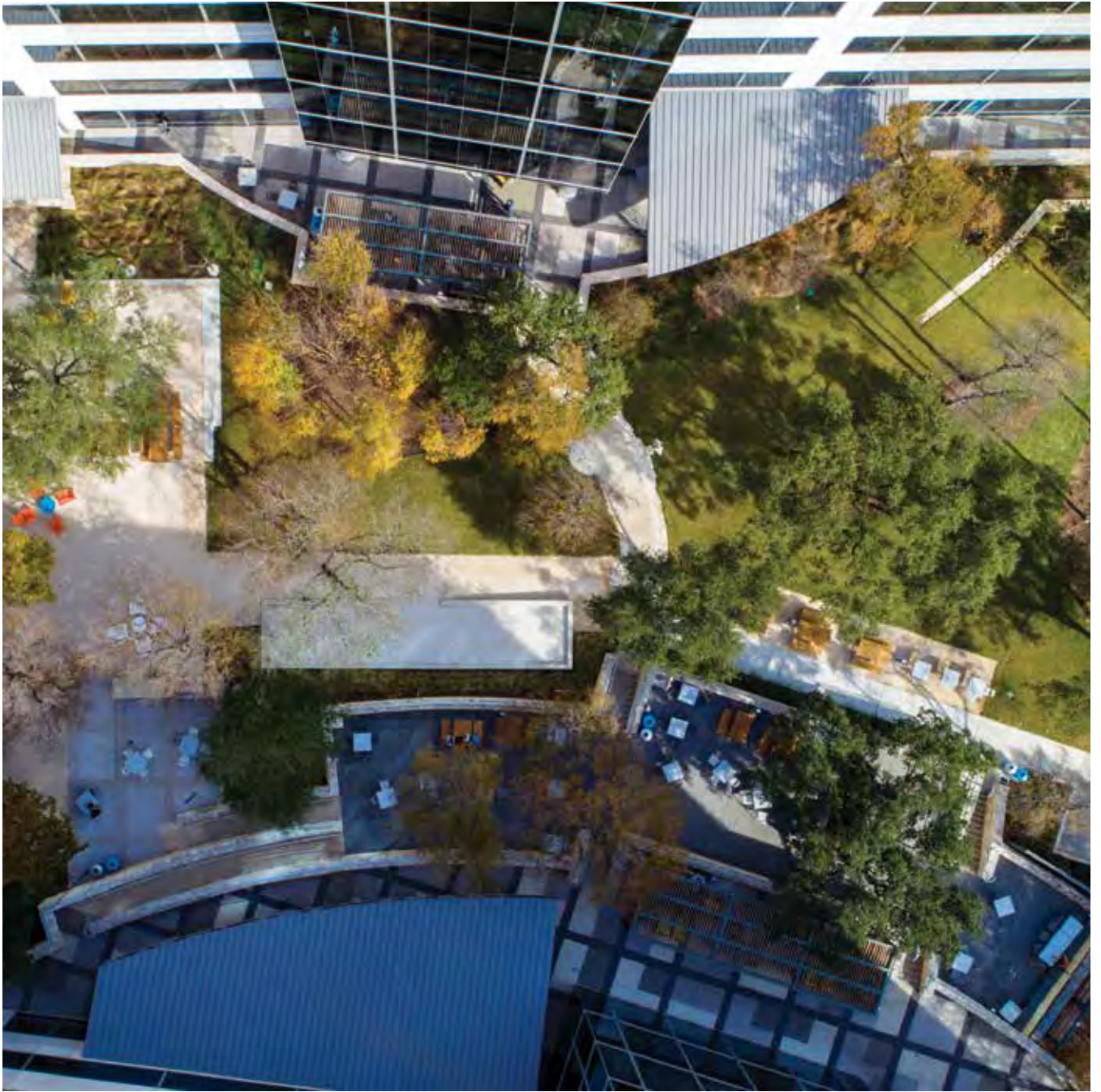
Faced with multiple public street entrances, the team used nature, color, artwork, and a once-hidden interior courtyard as the central organizing design concept for the renovation.

Members and staff enjoy access to natural light, views of nature, and distant views of the rivers and Central Valley. No matter the clinic visited, the central courtyard is a powerful and beautiful means of internal orientation.

Today, this once dated space is reborn as a stress-free member experience reminiscent of a hotel lobby, an art gallery, a spa, and a public garden. Sculptural architectural features, art, and nature are the main wayfinding elements. The building has been transformed from a space into 'place'. A place that is connected to the community with iconic welcoming architecture, woven into the urban fabric with thoughtfully articulated landscape to breathe new life into the city core.









National Instruments Amenity Courtyard

Austin, Texas

National Instruments was on the front line of Austin's 1990's tech boom and had been served well by their campus on the north end of the city. When the company decided it was time for an update, it took technology to demonstrate what the future of their campus could look like.

Using 3D modeling and virtual reality, our team was able to precisely convey the possibilities of a true blue-sky design. Our technology-led approach was embraced by our client for its ability to illustrate our design concept, which fixed the significant overgrowth at the project site. Informed with a compelling design and visual representation and understanding the benefits of an upgraded design, National Instruments increased the scope of the project five-fold.

Envisioned as an improvement to employee well-being and retention, the renovations to the campus focused on an outdoor social hub and amenity courtyard. The new creative space includes a bocce court, outdoor games, kitchen, fire pit, Wi-Fi work spaces, dedicated food truck location, and flexible space for events. Overgrown landscape areas were removed in favor of a visually open understory, while maintaining the character of the mature oak canopy.

The new campus is a main point of attraction and a differentiator for National Instruments in attracting new talent. Visitors to the campus will regularly see employees working outside, actively collaborating, and participating in after work events.



Architect: STG Design



Temporary 'grand plaza'



Temporary 'welcome plaza'



Phillips Square Park

Boston, Massachusetts

From the late 1800s into the first half of the twentieth century, Boston's Chinatown was a dense, thriving community. That changed in the 1960s, when construction of central arteries through the neighborhood gave away large swaths of land to automobiles.

In an effort to change that, A Better City and the City of Boston partnered with Stantec's Urban Places team to help give back space to the people of the neighborhood. The proposed design transforms an oversized roadway into a lively and distinctive network of public spaces—positioning the square as an active gateway and a dynamic destination.

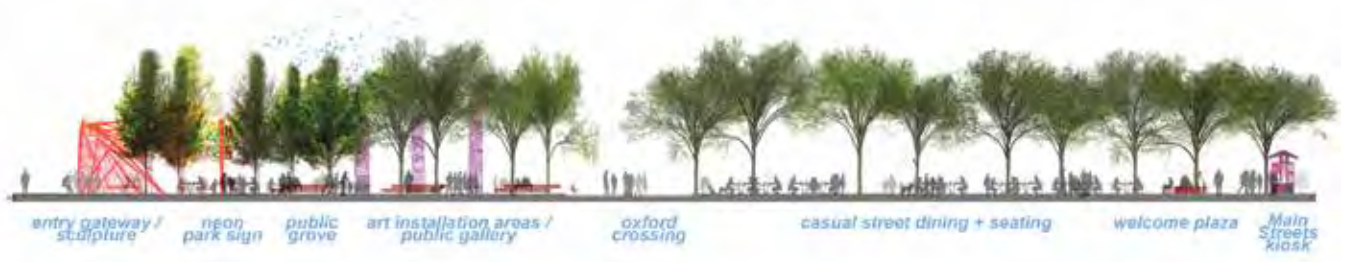
On the Essex Street end, a unique architectural gateway anchors the space and marks a key

entry into the neighborhood. On the Beach Street end, an informational kiosk serves both residents and visitors. The park space between these points acts as a flexible, ever-changing platform for art and technology that will be distinguished for its interactive installations that celebrate Chinatown's past, present, and future.

The roadway is completely reimaged as a public park, plaza, and promenade. Filled with color, public art, and a dense grove of street trees, this design creates a central hub for arts and culture within the community. Additional features include a protected cycle track, an upgraded streetscape with widened sidewalks, pedestrian amenities, outdoor café seating, and parklets.



Illustrative plan of an interim solution



Illustrative plan and elevation





Place Jean-Béliveau Square

Québec City, Québec

For more than 100 years the location for Place Jean-Béliveau square has been home to public markets, entertainment, and a park. With the construction of a new amphitheater, the City of Quebec wanted to bring back an air of nobility to the square, and to recognize its history and heritage.

Stantec was retained in 2016 to refine a concept initially developed by the City of Quebec. Stantec led the project design, a collaboration between our electrical, civil, mechanical, and structural engineers, environmental scientists, and our landscape architects.

As the square is named for a Montreal Canadiens hockey legend, it's only fitting that the site should host a skating rink. The rink itself needed to handle variations in temperature while allowing for other uses. In order to meet environmental and municipal needs, large underground vaults had to be designed for stormwater management and retention. To ensure the skating rink's integration into the larger project, a maximum slope gradient of 1% was necessary across the site. The resulting space has been enhanced with landscape plantings, a family-friendly park, and event space with distinctive architectural elements.

The new square was inaugurated in the fall of 2017, with residents, dignitaries, community partners, and Élise Béliveau, wife of late Jean Béliveau, in attendance.

Architect: André Plante Architecte-paysagiste
et Ville de Québec





Galatyn Commons

Richardson, Texas

Sometimes, for a project to work, you have to get up close and personal. This was true for Galatyn Commons. The goal was to make the existing 850,000-square-foot (nearly 79,000-square-metre) office and campus space feel more intimate and inviting with a pedestrian scale.

Our team achieved this by grouping the large interior campus courtyard into distinct spaces with defining characteristics and amenities. These new clusters form an expansive outdoor program complete with a kitchen and deck, as well as spaces for working, dining, and large-scale events.

After we analyzed the existing campus conditions, our landscape architects and designers worked with our client to determine which existing elements to integrate within the new design. Several key analysis diagrams and imagery generated quality discussions which focused the project team's design direction.

Throughout the design process, our team used 3D modeling and renderings to share proposed changes, validate design intent, verify selected materials, and ensure collective buy-in from the entire project team. Virtual reality headsets, another key tool, allowed our client and designer to view the rendered models "up close." With this immersion, the client, who was located halfway across the country, could visually confirm the design and virtually experience the renovation before documentation.













MarketStreet Lynnfield

Lynnfield, Massachusetts

Inspired by traditional New England communities, Stantec helped turn a portion of a former municipal golf course into MarketStreet Lynnfield. This new mixed-use “lifestyle center” is 475,000 square feet (over 44,000 square metres) of retail, office, and residential space, with a pedestrian-friendly site plan that creates aesthetic appeal through all four seasons.

The mixed-use village is a center of activity for the town and region. Our design creates a network of spaces that appeals to both workers and residents while maintaining the

natural landscape for all to enjoy. The office and retail space includes a “Main Street” component similar to other New England town centers. Inspired by, and deferent to the meadow surroundings, our designers took a unique approach, forgoing a traditional retail complex model for a naturalized landscape, enriched by our imperceptible and fully integrated stormwater design.

Architect: Prellwitz Chilinski Associates





Hills of Charlesworth Sustainability Plaza

Edmonton, Alberta

Beaverbrook Developments Inc. (Beaverbrook) envisioned an innovative and sustainable community for Edmonton, Alberta. Our design for Sustainability Plaza in the Hills of Charlesworth helps bring that vision to life.

Recognizing the growing demand for “green” development, Beaverbrook constructed the plaza as a demonstration space to showcase a variety of sustainable initiatives. This venue sits at the core of the community’s planned Urban Village Park. It offers a variety of amenities, including a tot lot, community gardens, walking paths with Wi-Fi connection, an ice ribbon, and warming huts.

Sustainable features of the design include lights energized by solar and wind power and permeable interlocking concrete pavers that reduce runoff and promote infiltration and groundwater re-charge. The plaza shelters are repurposed shipping containers with solar panels mounted on top to power a Wi-Fi station.

Panels cut from the containers were repurposed and used in the construction of the rainwater-harvesting shelter, as well as the benches. To service the community gardens, rainwater is collected in a salvaged culvert fashioned as a giant watering can. Also, mature trees from the site’s decommissioned golf course were salvaged and transplanted to provide more wind protection and shade.

The plaza is now a vibrant, year-round, educational “green” demonstration space—and the pride of the community.









The Domain II Renovation

Austin, Texas

Simon Property Group and our team did more than just renovate a two-acre (one hectare) pedestrian space at The Domain in Austin, Texas. They broke down walls.

The previous design had created a visual and physical barrier that hid many storefronts, limited pedestrian use, and kept the site from becoming what it could be—a versatile, multi-functional, and community-oriented destination. The client challenged our design team to create a unique identity for Domain II, one that would remove these barriers to provide a flexible open space, and greatly enhance vibrancy.

We came up with a versatile design that allowed for greater pedestrian traffic while creating a new space that fit The Domain's aesthetic and architectural character. This space provides a gathering area for social engagements and features a centrally located great lawn. The great lawn, and iconic cable shade structure above it, help to make Domain II a desired destination within the overall development.

As one of Austin's signature pedestrian plazas, Domain II has become the place to go to for festivals, seasonal events, live music, farmers' markets, informal dining, fitness classes, kids' play, and many other outdoor activities.









The Albany Skyway

Albany, New York

Nearly 300 years after the City of Albany was founded, its core was disconnected from one of its main identifying features. In the 1960s, planning for the automobile came first, and the I-787 elevated highway system cut off downtown Albany from the Hudson River.

The Albany Skyway is set to change that.

This project will be one of the only examples in the world proposing the conversion of a highway ramp into a linear park. It will also be Upper New York State's first elevated park. The Skyway will re-imagine a half-mile of underutilized infrastructure into an iconic physical connection reuniting Albany's downtown, Arbor Hill, and Warehouse District neighborhoods and the Hudson River waterfront.

The Skyway will be a place for relaxing strolls, exciting programming and events, pop-up neighborhood recreation, and will link to the region's expansive trail network. More than 3,000 square feet for an outdoor art gallery and an amphitheater overlooking the Hudson River will make this a hub for cultural events and celebrations. The Skyway's design will create more than 90,000 square feet of additional park space within the heart of the city and remove more than 50,000 square feet of impervious surfaces. Along the river side of the project we envision creating over 20,000 square feet of waterfront habitat.

Our team knew it was important to make each entry point to the Skyway a gateway to what lay beyond, inviting residents and visitors to experience the new space. Proceeding through the linear park, its design reveals a sequence of spaces that frame dramatic views of the city.





East Midtown Greenway

New York, New York

New York City's East Side Waterfront has been slower to develop than other parts of Manhattan. The only significant gap that remains in the 32-mile Manhattan Greenway lies at the foot of Franklin Delano Roosevelt Drive, just south of the United Nations.

Stantec was hired to create a new 'landscape' by building an elevated structure in the East River, running parallel to the shoreline, closing the most significant gap in the Manhattan Greenway. The project will provide East River waterfront access and unique views of both the waterfront and the city. Residents and visitors will get to witness the tides and changing flows of the river through seamless integration with the existing community and landscape.

To support a living landscape, the structure must support a heavy load of topsoil and large trees, requiring significant engineering work. For the structure to be beautiful, it needs to be as slim as possible so as not to block the view of the waterfront. Our team of landscape architects and engineers collaborated in an iterative process to solve this problem, while also capturing stormwater to sustain the landscape.

Accessible connection points will allow for maintenance access and shared spaces will be provided for water fountains and bicycle racks. Once completed, the 2,000-foot structure and supported landscape will include vertically separated pathways for cyclists and pedestrians, providing a public recreation space that prioritizes both safety and beauty.

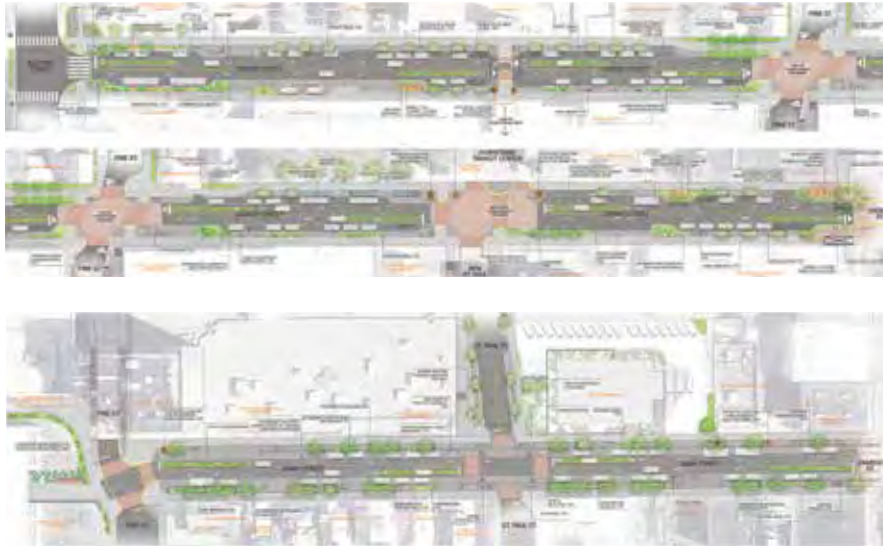












Burlington Vermont's Great Streets Implementation: The Redesign of Cherry and Bank Street

Burlington, Vermont

When imagining a quintessentially charming New England village center, Burlington, Vermont comes to mind. The City of Burlington has a history of creating great public places, rooted in the design of the iconic pedestrian mall along Church Street.

When the city decided to update car-oriented streets in the area to enhance the bustling pedestrian experience, Bank and Cherry Streets were selected.

Our design maintains safe and intuitive vehicle travel flows and creates links that prioritize pedestrian zones, bicycle access, and transit service. Working block by block, our design was carefully tailored to community and infrastructure needs. The plan prioritizes pedestrian safety and movement while maintaining on-street parking needed for the success of small businesses.

Adding bicycle parking and access to the transit center on Cherry Street caters to the City's need for multi-modal connections. The design incorporates landscaped parklets and seating areas outside of businesses, restaurants, and gathering areas, allowing the community easy access to these amenities. The parklets provide space to sit, view public art, people watch, and enjoy a newly created downtown street experience.

Rain gardens and green infrastructure for stormwater management are placed throughout the landscape to help direct pedestrian flow and provide guidance to designated street crossings. Bank and Cherry Streets are being reimaged for the 21st century, adding infrastructure resiliency and inviting pedestrians to underutilized cross streets.



CONCEPT IMAGE LEVEL

- 01 MEET EXISTING CHURCH ST. PAVING/CROSSWALK
- 02 STREET LIGHTS TO MATCH CHURCH ST.
- 03 DETECTABLE WARNING STRIPS/DETECTABLE PAVERS
- 04 OVERHEAD LIGHTING / BANNERS ON LIGHT POLES
- 05 SUPER SHARROW' BICYCLE TRAVEL LANE
- 06 ON-STREET BIKE PARKING
- 07 DETECTABLE WARNING STRIPS/DETECTABLE PAVERS
- 08 SIDEWALK ZONE
- 09 STORMWATER RETENTION/BIO-SWALES WITH INTERPRETIVE SIGNAGE
- 10 STEP-OFF ZONE/PARKING BUFFER
- 11 PARKING ZONE
- 12 PARKING ZONE
- 13 PARK BENCHES/SEATING NOOKS
- 14 FLUSH CURB TO SEPARATE PARKING/DRIVE LANES
- 15 TRASH AND RECYCLING RECEPTACLES
- 16 SLOW TWO-WAY TRAFFIC



CONCEPT IMAGE LABELS

- 01** MEET EXISTING CHURCH ST PAVING/CROSSWALK
- 02** STREET LIGHTS TO MATCH CHURCH ST
- 03** POSSIBLE LOCATION OF BIKE REPAIR STATION
- 04** 'SUPER SHARROW' BICYCLE TRAVEL LANE
- 05** PUBLIC BULLETIN BOARD
- 06** TRASH AND RECYCLING RECEPTACLES
- 07** PARKLET
- 08** STORMWATER MANAGEMENT GARDEN / SWALE
- 09** ON-STREET BIKE PARKING
- 10** SIDEWALK ZONE
- 11** PARK BENCHES/SEATING AREA
- 12** ACCESSIBLE ON-STREET PARKING SPACES W/ LOADING ZONE AND FLUSH CURB
- 13** SLOW TWO-WAY TRAFFIC
- 14** OVERHEAD LIGHTING / BANNERS ON LIGHT POLES
- 15** POSSIBLE LOCATION OF PUBLIC ART
- 16** BUS STOP





Summers Corner

Dorchester County, South Carolina

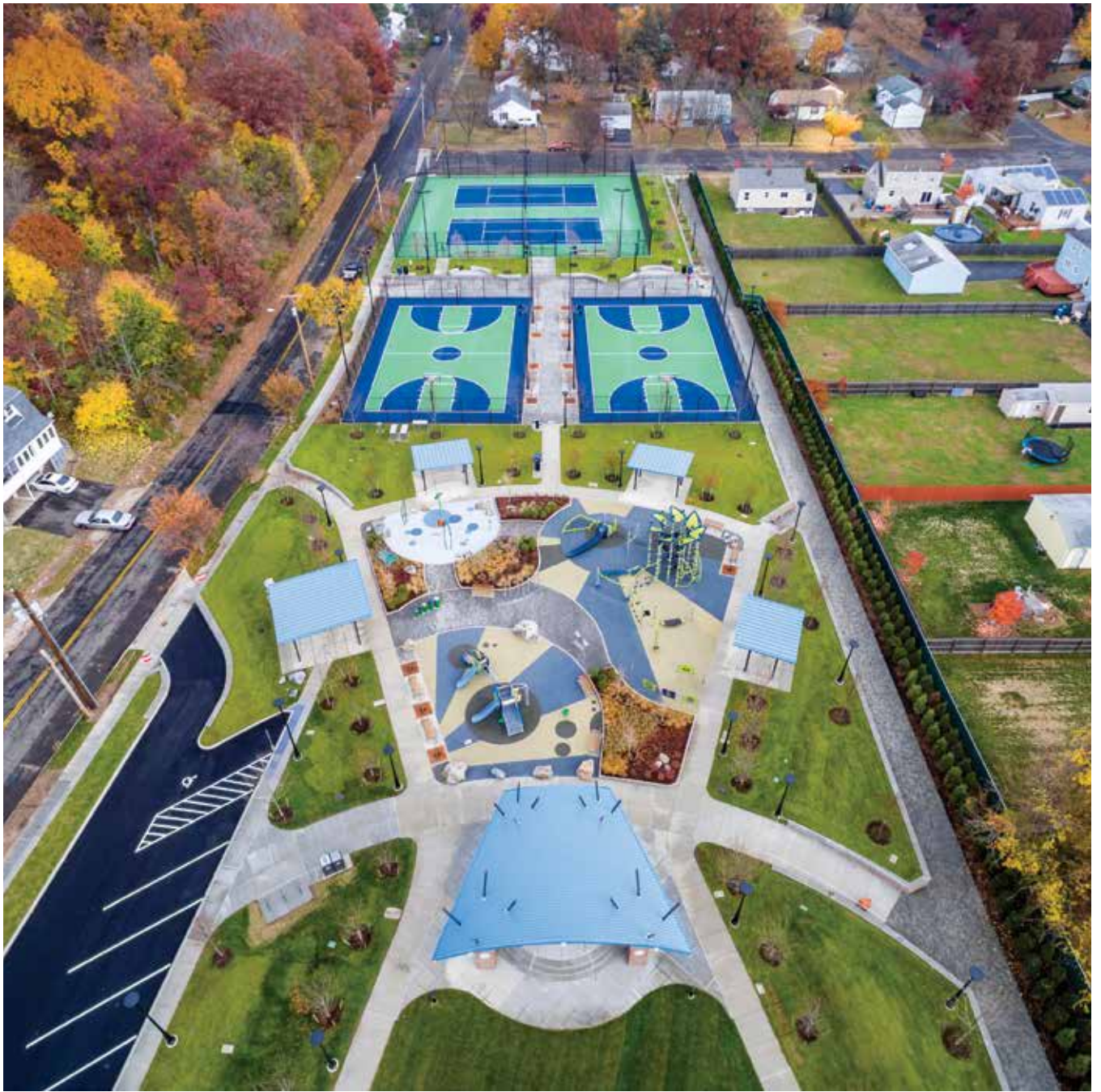
In anticipation of new industry coming to Dorchester County, WestRock, Inc. looked to develop a central community in a rural area to act as a residential anchor for future development. Stantec was brought on board as the landscape architect of record, and tasked with creating a connected, walkable, mixed-use village hub in the new development.

To accomplish this, we worked with partners to create the ambiance of a small town with a friendly main street, homes, retail and parks that link pedestrians from one neighborhood to the next. Stantec worked closely with the owner and design team to create parks and open spaces that are in keeping with the Lowcountry and unique to each neighborhood, creating an overall sense of “garden”

for wildlife and homeowners. These are accompanied by quaint and intimate public spaces in corners of the community.

Residents are no more than a 5-minute walk to a park or public garden. The center village features a central gathering space for events and a public market along with a demonstration garden. Pathways and trails connect to nearby Buffalo Lake, giving residents more recreation options.

Summers Corner is a unique community in South Carolina. The landscape is meant to foster short-term marketability to attract residents, while creating a sustainable beauty that will be the defining feature of the community.





Villano Park and Rochford Field

Hamden, Connecticut

Designing atop contaminated soil is complex. Add a neighborhood park to it and the technical and communication challenges become even more complicated.

The Town of Hamden wanted to transform two formerly contaminated park sites into a vibrant new neighborhood destination. Our team was ready to help with a balanced, collaborative, and creative design approach. First, our landscape architects and designers worked with the diverse community to create a custom program and plan. Then, together with environmental consultant Haley & Aldrich Inc., our team implemented an inspired design.

To meet strict contamination requirements, we raised the park site two feet (just over half a metre) above the engineered containment cap.

We designed foundations, utilities, and landscape elements within newly placed soils. Detailed coordination among our landscape architects, engineers, and environmental professionals made this work possible.

Designed as two parks in one, the site features a vine-covered pergola for quiet seating and a dual-stage performance shelter; these elements make both large community events and smaller performances possible. Other features of the new booming recreational hub include multiple seating areas, an adventure and music-themed playground, picnic shelters, and sports fields.

A community once without a safe place to gather outdoors is now reconnected by this new exciting, unique, and diverse park experience.





Hillside Park

Rancho Cordova, California

How do you build a 2014 park with a 2006 budget on a challenging site? One word: creativity. In 2006, the housing bubble burst and, in Northern California, design plans were placed on hold for Hillside Park, a unique, eight-acre (three-hectare) site located in a new northwest Rancho Cordova subdivision. The economy improved by 2014, but the budget remained idle—until now. We dusted off the plans and engaged our designers to chart a course through this challenging terrain.

The site was integrated into the stormwater management and open-space program for the community. Its perimeter had elevation changes of more than 15 feet (over four metres) with 30% slopes, and was considered a “hill” by most valley residents. The team established early on that the hill was an asset and developed creative ways to integrate this topography into the design.

Solutions for the project included drought-tolerant native and adapted plantings to stabilize slopes, an innovative integration of hillside and level play-space, and rolling topography to deliver accessible paths to the lower picnic grounds and play fields. Colors, plantings, and textures were used to unify the site's features.

On opening day in July 2016, over 1,000 residents came out to enjoy the new park and the view from atop the region's first hillside play space.









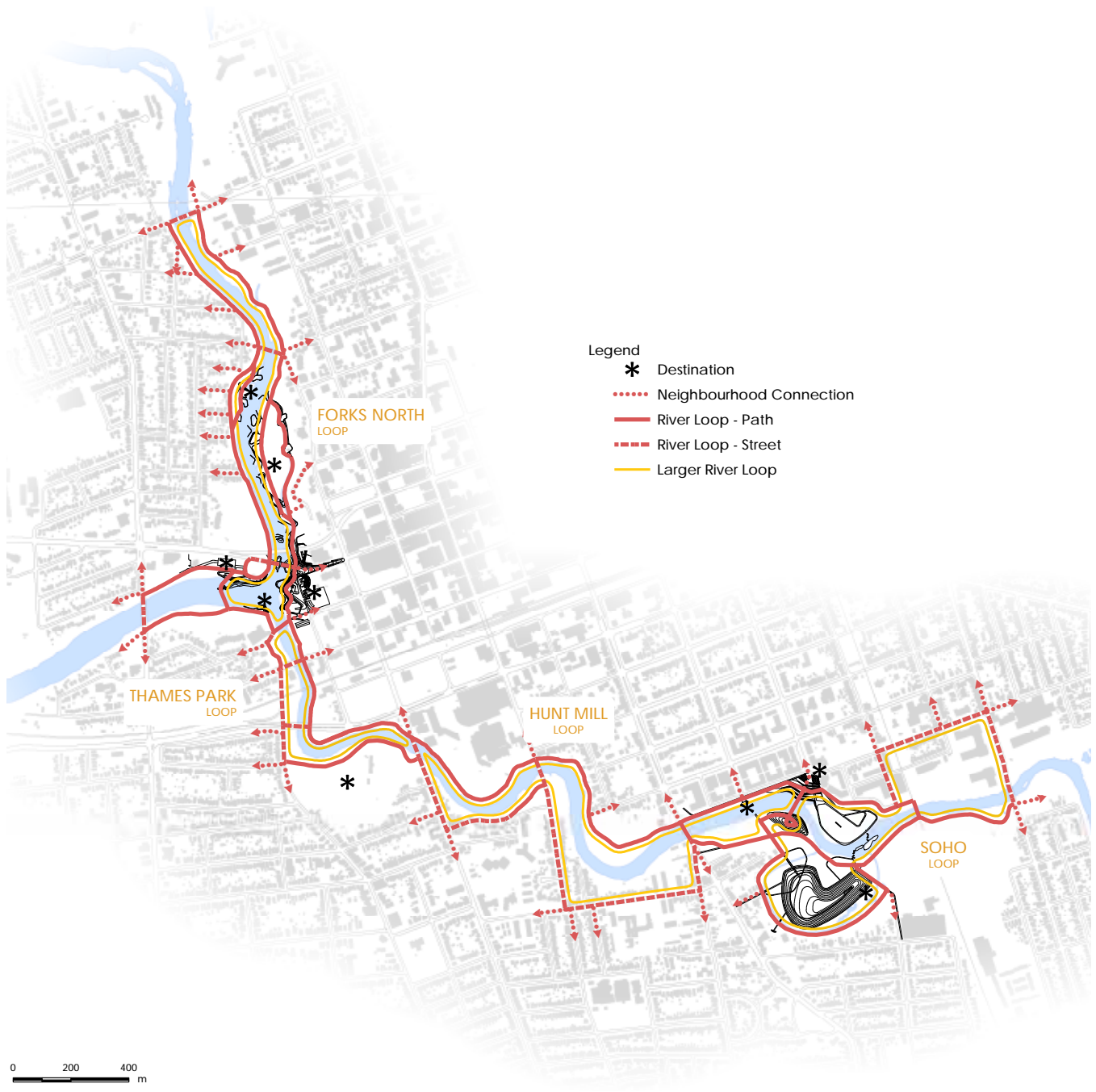
Back to the River International Design Competition

London, Ontario

Revitalizing a three-mile (five-kilometre) stretch of London's Thames River takes vision. Our team came up with one inspired by history, connectivity, experience, and sustainability. It has led to a new design and our success in the Back to the River International Design Competition.

Stantec partnered with Civitas to form a dynamic and interdisciplinary team with both international and regional flare. Our partnership brought together international landscape architects, urban designers, architects, structural engineers, river specialists, ecologists, and historians. The team held multiple design charrettes to collectively assemble a vision for the Thames River. We analyzed the study area, talked to local residents, and reviewed historical data. We then formed our design approach based on this layered site data.

Our submission, titled "The Ribbon of the Thames," envisions the Thames River corridor as an amenity to neighboring communities, with the river acting as a ribbon tying the communities together. The active corridor will serve as the green heart and lungs of this vibrant city. More importantly, it will enable the city to unlock urban regeneration and create a four-season destination.

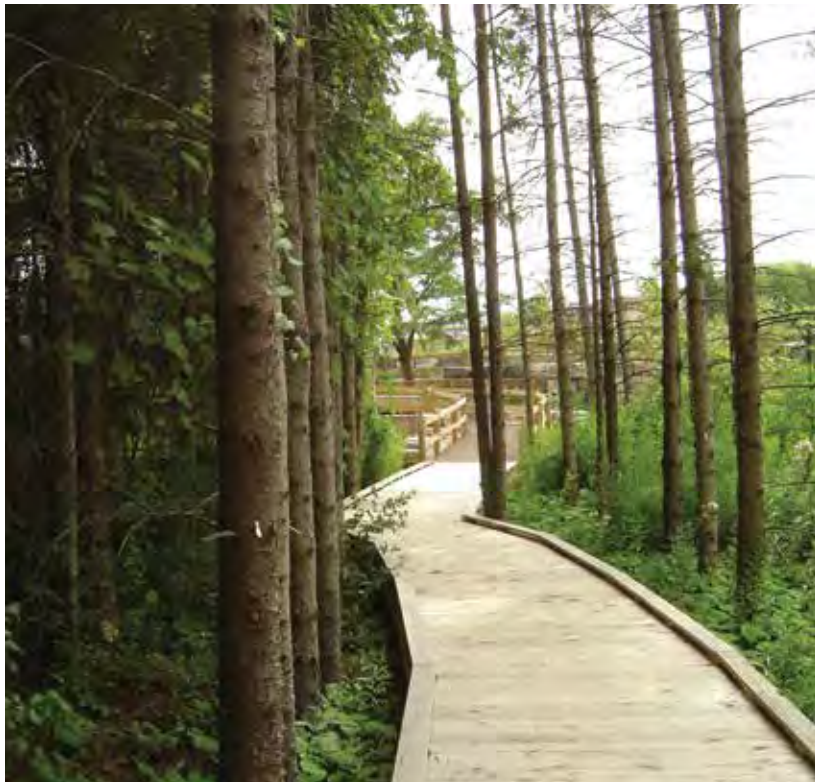


- Legend
- * Destination
 - Neighbourhood Connection
 - River Loop - Path
 - - - River Loop - Street
 - Larger River Loop

0 200 400 m







Newmarket Trailhead Park and Trail System

Newmarket, Ontario

The Town of Newmarket engaged Stantec to design Trailhead Park and a series of walking trails. To properly capture the site's natural and cultural heritage, we let the spirit of place guide our design.

Trailhead Park sits adjacent to residential development and forms the southern head of a trail that extends north. This trail winds through a 300-acre (120-hectare) wooded valley, traverses a number of distinctive habitats, and links neighborhoods and town amenities. The park acts as a transitional landscape and gateway between the built residential environment and the natural forest.

The tranquil public space we designed encourages reflection and respect for the environment; it highlights the natural landscape and frames views to the nearby forest. One feature, the layout of the trees, depicts the process of forest succession; we arranged linear rows of similar tree species in a specific order. Another feature references geological formations (drumlins) found in the region; the four large berms we designed are similar in shape to the drumlins. Our design also included sculptural elements and visual markers to commemorate the spot where Native Americans traded furs with the Town founders.

By magnifying the beauty and importance of nature, the completed work achieves the Town's goals to provide an open space for educational, recreational, and community interaction.







Gil Hodges Community Garden

Brooklyn, New York

How can a neighborhood park reduce pollution, increase biodiversity, and protect water quality? With sustainable design.

The Gil Hodges Community Garden is an intriguing neighborhood amenity—and an environmental showpiece. As part of the park's extreme makeover, our designers created a unique water retention system for this community space in New York City.

Leveraging a municipal green infrastructure grant, Stantec worked with New York Restoration Project to design a system of bioswales and rain gardens within the park. The new design diverts runoff from the public right-of-way into the garden space and, subsequently, to a number of functional and aesthetic landscape features. The work plan involved an intense four-month design and review process with extensive community involvement. This process was followed by an accelerated implementation phase.

Today, the garden is used by a wide variety of community groups and residents, including nearby elementary and high school students who grow vegetables and herbs through after-school programs.







Boulder City Bypass

Boulder City, Nevada

The history of Boulder City is inextricably tied to the construction of the Hoover Dam – in fact, the city was founded to house workers building the Dam. This roadway has been historically important, and Stantec was engaged to update the landscape architecture to all major features along the 12-mile stretch of new construction.

Building on local history, our team developed a conceptual and graphical narrative fitting for the area's past. This narrative was creatively applied in mural style to roadway structures based on their geographic position. In other words, we told the story on structures that were closest to where actual events occurred in history.

Local rock saved from the blasting process was integrated into the design, imparting beautiful shades of red along the roadway shoulders. This was not only an important design choice, but it made the project more sustainable – no soil or rock was imported for the landscape. The design incorporated local Mojave Desert plants, desert surface rock, salvaged boulders and water harvesting features to enhance vegetation success and to protect against erosion.

The art deco architectural style of the Hoover Dam was used for the project's 10 bridges and 12 retaining wall structures. A major component of our work was the design of a scenic overlook to Lake Mead. This was the site for the project's grand opening in August 2018, attended by more than 500 dignitaries and stakeholders.



Jones Beach State Park Gateway Signage

Wantagh, New York

Jones Beach State Park was constructed in the 1920s as the first major public project created by Robert Moses. The beach, which officially opened in August of 1929, included a series of architecturally significant structures in the Art Deco style and served as a terminus to the new parkways linking the Long Island Shore to New York City. As part of a restoration and rehabilitation plan, the State decided to add monumental gateway entry structures to celebrate arrival to this majestic park.

In designing new gateway features, our team embraced and were inspired by the same philosophy as the park's original visionaries, working in collaboration with other disciplines to create Art Deco structures that are in harmony with the coastal landscape.

Our team selected materials that emulate the historic buildings designed and constructed nearly 100 years ago - the warm colors resemble the original Ohio Sandstone, the precast concrete ledges are similar in appearance to cast stone, and the turquoise glass tile is used as an accent element to resemble the tile detailing seen on the historic band shell. As roadside features, the gateway signs beautify historic parkways and demonstrate renewal to the iconic park.









Cap-Rouge Memory Wall

Québec City, Québec

The goals of this project were straightforward: shore up the Cap-Rouge cliff to preserve the site's archaeological remains and highlight its cultural aspects. With an architecturally significant site and unique characteristics of Northern cultures—or “nordcity”—as our inspiration, our team devised a solution that married landscape innovations with artful expression.

The design features an environmentally sensitive retaining wall that protects and commemorates the archaeological remains of North America's first French colony. To evoke the site's rich history, our designers selected naturally weathering Corten steel. In the early years of colonization, explorer Jacques Cartier had written about the site's abundant trees and iron ore (found in steel).

The qualities of the material make it as enduring as its raw connection to the site. Artistic features of the site include the inscribed excerpts from Cartier's travel journals on the wall. By combining thoughtful urban-space planning with engineering, we created a highly evolved design concept.

Our team also incorporated sustainable design principles and characteristics of the Northern cultures through the use of low-maintenance and durable materials, low-energy lighting, and native plants, shrubs, and trees. Ongoing collaboration with stakeholders and coordination between our interdisciplinary team made this work possible.

The result is a community amenity that can be enjoyed and discovered for generations.









Place du Citoyen

Saguenay, Quebec

Our design approach for Place du Citoyen was all about transformation. Stantec's task was to help turn a poorly used, disorganized, central urban space that was dominated by vehicles into a vibrant civic space.

Our designers combined fountains, green space, street furniture, service buildings, lighting, large projection screens, and an outdoor refrigerated rink in a new way to create a landmark city space. Natural elements, as well as 38 computer-programmed water jets, provide numerous aquatic displays and stimulating play experiences. The library garden invites people to stretch out on the grass and touch the earth. The Scénotaphe art installation, designed by Armand Vaillancourt, depicts fire, and mist-makers heighten visitors' awareness of air.

Sustainability was a priority as we showcased the unique characteristics of Northern cultures, and integrated long-lasting materials, low-maintenance plant species, and the capture and reuse of stormwater runoff. Through our design, we also pay tribute to the historical richness of the site; the rejuvenated space recalls the course of old waterways and displays commemorative works.

Today, the Place du Citoyen complements its urban surroundings while providing an amenity for residents and visitors.





West Lot

Denver, Colorado

The Colorado Rockies mean a lot to baseball fans in Denver and across the Southwestern United States. Without Major League Baseball clubs in their home states, fans visit Denver from neighboring states of Wyoming, Nebraska, and Utah, looking for a rich experience around the sport they love.

To provide space for fans and for the city, the Colorado Rockies Baseball Club reached out to Stantec to develop a master plan to create a vibrant new urban space adjacent to Coors Field, a place where families, fans, and residents can gather, celebrate, and appreciate their team, our nation's past-time, and the community.

Nestled within a former light industrial neighborhood, it was important to maintain the character of the area while managing its transition. Brick, stone, and water design choices accomplish that, while introducing elements authentic to the Rockies franchise and the State of Colorado.

While the Rockies play 81 home games a year, that leaves 284 days where this downtown space can attract visitors for other purposes. Our multi-use West Lot development plan is spread across nearly three acres adjacent to Wynkoop Plaza, part of a previously vacated street that will feature an outdoor "content plaza," the first of its kind in Denver. Beyond baseball, the plaza will serve as Denver's "outdoor room" – a year-round space with state-of-the-art audio and visual systems that can accommodate concerts, festivals, and other events.









Lac aux Castors

Montréal, Québec

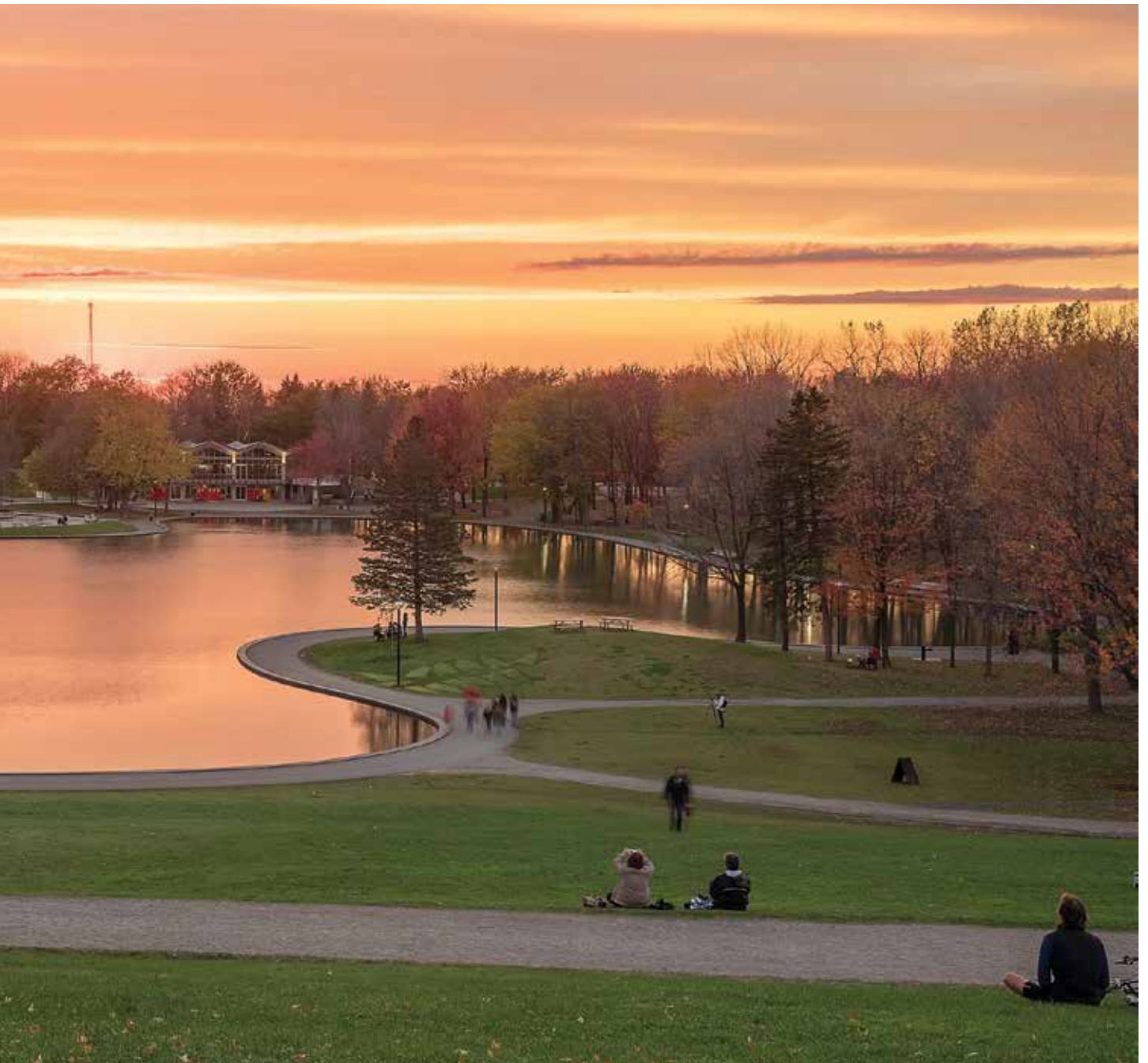
The Lac aux Castors basin has a distinct architectural and cultural heritage. This landscape restoration project helped to preserve it.

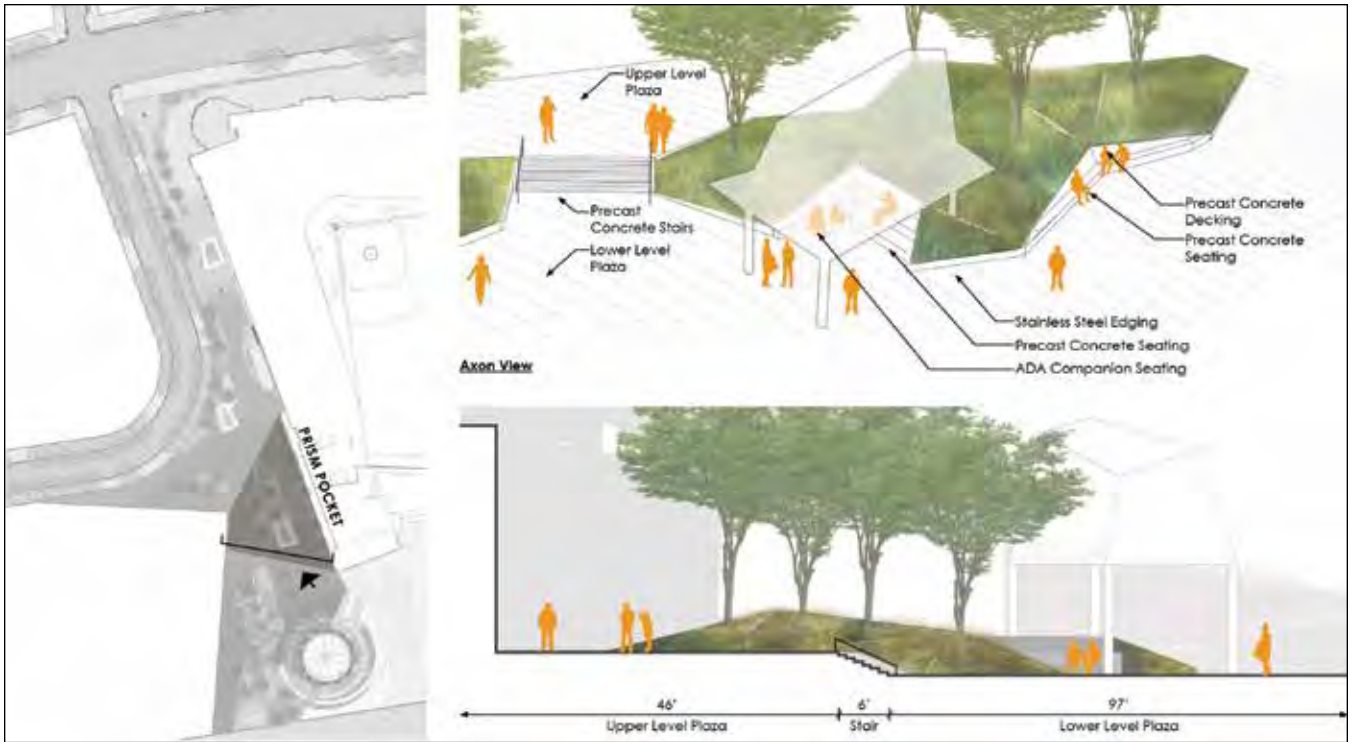
The project had two major design components. The first focused on the patrimonial dimension of the site; no matter what the proposed design was, it had to respect the work of landscape architect Frederick L. Olmsted. The second component consisted of our design team's comprehensive application of sustainable design principles. This work included the integral preservation of the basin's geometry and the structural restoration of the perimeter, historic wall, cascade, and surrounding trails.

To restore the basin's original landscape, architectural, and cultural details, we conducted and prepared a site analysis, hydrologic study, design charrettes, materials research, plans and specifications, and an on-site construction observation.

Patron enjoyment, enhanced reflecting qualities of the water basin, and water filtration were all realized in this successful restoration project.









Parachute Way Plaza at Coney Island

Brooklyn, New York

Coney Island, New York City's iconic destination for fun, was due for a renovation. Our client, New York City Economic Development Corporation (NYCEDC), saw the redevelopment as an opportunity to create a more unified community following the devastating impacts of Superstorm Sandy in 2012. Its vision included new streets, enlivened with streetscape amenities, pedestrian connections, shops, and restaurants. But it needed a design to bring it to life.

The project required almost two miles (3 kilometres) of new street construction and three miles (nearly five kilometres) of new storm and sanitary sewers. As part of our design, we raised the streets to achieve positive flow for the storm sewers. We also created a grading "transition area"

on Parachute Way. This area will serve as an entryway to the MCU Park and give pedestrians access to the boardwalk from Surf Avenue.

We incorporated a public art vision into the design process through a special collaboration with public artist Xenobia Bailey. Bailey used prisms and the gradation of the colors of the pavers to make an artistic statement which is reflected in the plaza design. For instance, the colors of the pavers range from black and deep brown to sandy tan, representing the colors of sand around the world and the community's diversity.

The final design will create an interesting space and support the transformation of Coney Island from a seasonal attraction into a vibrant, year-round community.









Governors Island Slide Hill

New York, New York

Four man-made hills at the Governors Island Parks and Public Space in Manhattan—which have been in the making for several years—are now open to the public. Made from leftover debris from old buildings on the island, the hills are proving to be as unique as the area itself.

Stantec, in collaboration with Brightview and West8, served as the landscape architects of record for Slide Hill which offers four slides, one being the city's longest at a whopping 36-foot height (11 metres). We provided technical design services, including schematic details

for critical elements such as log stacking, slide placement, and tree planting in the rusticated play environment. We also provided design and construction plans for the project's layout, grading, materials, irrigation, and planting.

As a one-of-a-kind signature feature, Slide Hill and the other three man-made hills (Grassy Hill, Discovery Hill, and Outlook Hill) will provide fun experiences and memories for visitors of all ages for years to come.









Lynch Family Skate Park

Cambridge, Massachusetts

For decades, skateboarders throughout the City of Boston have skated its streets, finding favorite plazas, staircases, and other features to frequent without a true park of their own. Thanks to Stantec, the new skate park—the largest in New England—has given skaters a home that captures these civic skating landmarks in one venue.

The Charles River Conservancy, the nonprofit organization who built the park, spent nearly a decade raising money and generating the public support needed to move the project along. Stantec joined the effort, consulting with local skateboarders to help drive the park's design. Guided by the desire to create a community space, we held several public meetings to solicit input and garner support. This engagement resulted in a design that draws from the local artwork and city features defining Boston's skateboarding scene and is "uniquely Boston."

The new 76,000-square-foot (7,060-square-metre) skate park and plaza sits under the Zakim Bridge on the banks of the Charles River. Adjacent to a pedestrian park, commuter rail yard, and gravel plant, the park balances the contrasts of recreation and creativity and the industrial edge of the skateboarding culture.

Turning this once-contaminated site into a year-round destination has maximized its use and activated an undesirable space. Since it opened, the popular Lynch Family Skate Park has attracted skaters from the region and beyond.





Women's Health Pavilion

Kigutu, Burundi

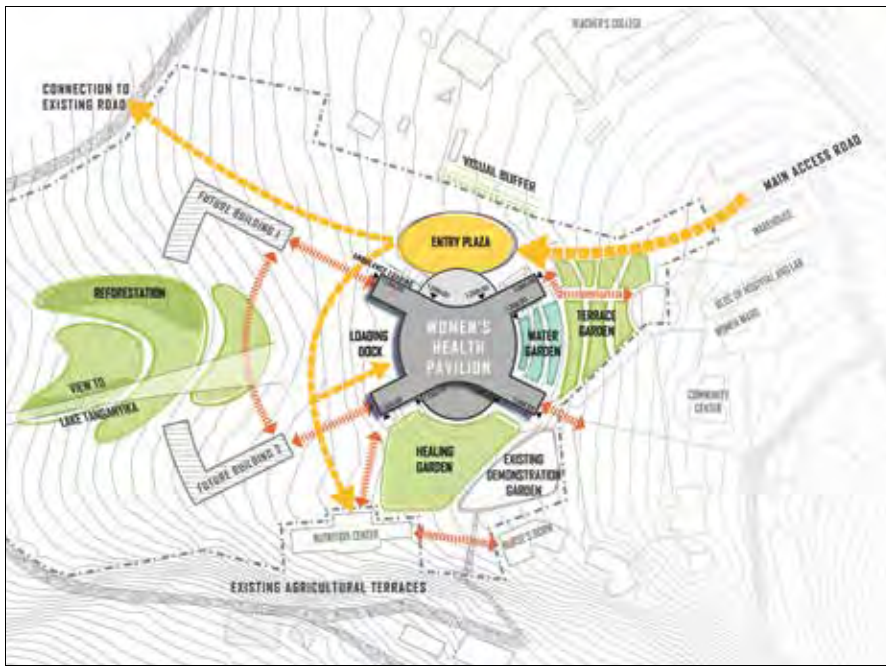
The Women's Health Pavilion is a project of Village Health Works, a non-profit organization dedicated to providing 'quality, compassionate, dignified health care' in the small village of Kigutu, Burundi. The new hospital will specialize in health services for women and infants in one of the world's poorest countries.

The project will be the first major development in the area, and will deliver hydropower, stormwater management, and road infrastructure to the medical campus.

Stantec's design of the Pavilion is an extension of its mission – to address not only health needs, but malnutrition, political instability after years of civil war, and ecological degradation. The planned entrance to the facility is a generous landing amid sloping terrain that communicates arrival at a special place – one that is nurturing and secure. A colorful entry garden, plots to grow food, a water garden, and a medicinal garden make the connection with the mission of the place.

Stepped terraces will slow water from Burundi's heavy rains and create places to grow food, places to sit, and ornamental and medicinal gardens, connected by a network of pathways linking to the existing facilities scattered across the hillside.

Our team utilized a systems-based approach integrating infrastructure, aesthetics, and environmental sustainability to thoughtfully design spaces to meet the facility's holistic mission. These spaces integrate with functional infrastructure to bring the organization's broader vision to reality, in part, through landscape – to nurture a vital sense of human dignity.









National Centre for Cancer Care and Research

Doha, Qatar

The National Center for Cancer Care and Research is a global leader in healing in a truly unique, nurturing, and non-institutional environment. Their new flagship facility demonstrates this with the successful use of architecture, daylight, and landscape.

The vision for the landscape design was three-fold: to create “gardens that live,” “gardens with vibrancy,” and “gardens everywhere.” Landscapes and architecture were integrated cohesively to form natural green spaces within the deep hospital footprint. The result brings natural daylight, views to exterior scenery, and accessibility to growing plant life into what are typically sterile clinical spaces. Together, more than 118,000 square feet (over 10,900 metres)

of planted garden space are spread throughout every level of the building including two occupied basement levels. The use of culturally and medicinally significant plant species is also prevalent and showcased throughout the site.

The design connects to natural landscapes at all levels of the hospital and throughout the interior and exterior, creating an environment that benefits patients, visitors, and staff. The broader community also benefits; our approach of using living plant material in the building environment as an aid to patient well-being, healing, and therapy brings healthcare design in the region to a whole new level.





Sarasota Memorial Hospital Courtyard Tower

Sarasota, Florida

Sarasota Memorial Hospital (SMH) wished to create an accessible environment focused on well-being. It got its wish with a new nine-story, 220-bed, 300,000-square-foot (27,800-plus-square-metre) patient tower. Part of a campus-wide infrastructure redesign, the tower connects to existing nursing areas where key services are integrated and visitors can access enhanced technology and high-end amenities. The tower also serves as a wayfinding element for SMH's new main entrance.

Phase one of the project included the relocation of the hospital's central energy plant (CEP) and demolition of one of the oldest patient towers. Our team created a design that accommodated utility-infrastructure constraints while providing efficient vehicular and pedestrian access to the new bed tower.

We also led the design of a new courtyard space where patients, families, and staff can relax. In it, two fountains and shaded spaces provide tranquil respite and an opportunity to enjoy the café, outdoor dining, and Florida weather. Additionally, a contemporary garden with elm trees and grasses provides a transitional space for reflection while inspiring art installations can be seen both on the ground and from within the building. Like the tower, the courtyard has become a wayfinding element for the core of the hospital's main campus.

Overall, the resulting landscape has rejuvenated the campus and set a tone and aesthetic for future projects.



Architect: Gresham Smith & Partners

Landscape Architecture **V2**







Mackenzie Vaughan Hospital Vaughan, Ontario

Our landscape design for Mackenzie Vaughan Hospital connects healing with nature. For example, we integrated gardens into the building's interior public space, in patient rooms with courtyards, on terraces, and on rooftops.

Our design focuses on integrated settings that promote health and wellness. By making indoor and outdoor connections tangible, functional, and significant, we created a positive, calming, and stress-reducing environment. To achieve this, we placed keyhole gardens and courtyards at the main entrance, the learning and development entry, and at the emergency entrance. Green roofs and programmed courtyards reinforce this connection through the full height of the building. As our work shows, this project is a true collaboration between architecture and landscape architecture.

By integrating the built form and natural landscapes throughout the hospital, we've created a positive human experience in a healthcare environment for patients, their families, visitors, and caregivers.









Tottenville Shoreline Protection Project

Staten Island, New York

The south shore of Staten Island has sustained decades of coastal erosion. Its condition, made worse by Superstorm Sandy, has left this community more vulnerable to the next coastal storm.

As part of its New York Rising Community Reconstruction Plans, the State of New York set up the Tottenville Shoreline Protection Project, a storm recovery and resilience initiative. The assignment called for the design and construction of a stone-core, sand-capped dune system to reduce wave impact and coastal erosion along the shore. This system would serve as a naturalized barrier to the looming threat of flooding.

Our team signed on to help. As the project progressed, we determined that the dune

solution would not work for the whole shoreline. We're now working on custom design solutions for each of the diverse areas. We're also working with the Rebuild by Design team to create an on-shore and off-shore integrated system. Using a layered approach comprised of a series of measures—wetland enhancement, eco-revetments, hardened dune systems, shoreline plantings, maritime forest restoration, and earthen berms—we will address the impacts of coastal flooding and shoreline erosion while restoring and enhancing ecosystems and improving waterfront access.

Our design has been honored with a special recognition award by the New York City Public Design Commission.





Swimmable Charles

Boston & Cambridge, Massachusetts

The Charles River was once a polluted mess immortalized by the song "Dirty Water." Recently, it was awarded a cleanliness grade of A- from the Environmental Protection Agency and became the "cleanest urban river in America," according to the Charles River Conservancy (CRC). With some help from Stantec, it may soon become the first urban river in the United States to reintroduce swimming.

An integrated team of our designers spent five months donating their professional expertise to analyze the feasibility of a swimming facility for the CRC. Our volunteers met regularly with the CRC and engaged our local interdisciplinary studio in brainstorming sessions to explore the possibilities. We also reviewed jurisdictional issues and policy and investigated design and engineering challenges. Ultimately, we concluded that a permanent swimming facility was indeed feasible.

Published publicly and reported in the Boston Globe, our report helped the CRC successfully complete an Indiegogo fundraising campaign to continue its work. If everything goes as planned, our volunteers will be suiting up for a future swim in the Charles.









Portland Landing

Portland, Maine

The former Amethyst Lot area in downtown Portland contains three acres (over one hectare) of underutilized waterfront land, 10 acres (four hectares) of submerged lands, and plenty of potential. The City of Portland retained Stantec as lead landscape architect and engineer to craft a new vision for this vital waterfront space on Casco Bay.

The project involved the design of a marine facility and urban open space for the site, which was a combination of city-owned lands and associated submerged lands in the eastern waterfront redevelopment district. Included in the project are an instructional and recreational sailing school and the stabilization of Moon Tide Park, a contaminated space.

To create the development program and design concepts for this waterfront gateway to Portland, we led a work group and stakeholder committee and conducted public engagement meetings. Our designers prioritized uses; established a design program for the site; identified space-allocation requirements for prioritized uses; developed alternative design concepts for evaluation and selection; and developed a planning budget and implementation strategy for the selected alternative.

Drawing on our capabilities and advanced technologies in waterfront open space design, storm surge, coastal flooding, and wave attenuation, we created a model of the preferred alternative that illustrates its potential.

A preferred concept has emerged that integrates coastal resiliency, water-dependent recreation and commerce, gathering and seating, and a flexible waterfront event space in the heart of downtown.





Design with community in mind

stantec.com

