

healthcare design

HCD
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WELCOME

TO THE 2021 HEALTHCARE DESIGN SHOWCASE

HEALTHCARE DESIGNERS RELY on evidence, best practice, and lots of lessons learned to shape new projects, but the mark of true success is how well all of that is adapted and applied to the unique needs of a specific client, program, and patient population/building users. Within this 21st annual Design Showcase, you'll find 48 examples of how project teams approached that challenge.

This special section features projects ranging from acute care hospitals and cancer centers to sports medicine facilities and wellness centers, each offering an inside look at how teams navigated the planning, design, and construction process to meet a healthcare organization's goals. And no one project or solution is the same—just look at the winners of our Award of Merit (the program's highest honor). Within those four projects, you'll find a clinic prototype adaptable to various sites, an underground space renovated into a futuristic surgical training lab, a 2 million-square-foot campus broken down into modular components, and a patient tower that pushes the boundaries on outdoor space. Collectively, the Design Showcase projects add to the industry's well of knowledge for all to use as you continue to push healthcare design forward.

All submissions to the Design Showcase were reviewed by a jury of industry professionals appointed by our partner organizations—The Center for Health Design, International Interior Design Association, and American Society of Interior Designers—and judged based on achievements in the categories of Innovation, Aesthetics, Experience, and Operational Performance. The projects that received the highest scores in the first round of review advanced to a virtual judging event held this spring, during which our jury chose the finalist projects that would rise to Honorable Mention and Award of Merit winners. Turn the page to view a list of those jury members as well as our winners and finalists. Then, explore the full Design Showcase special section for editorial coverage of the program and submitted project narratives.

We hope you enjoy the issue and can't wait to see how it inspires projects to come.—*Jennifer Kovacs Silvis, editor-in-chief*

Healthcare Design Showcase projects are chosen for inclusion by a jury of industry professionals, based on a rigorous review of submissions that assess cost, square footage, location, facility type, and other key factors that support photos and floor plans. Jurors are excluded from reviewing projects that they or their firms were involved with; jurors who are associated with projects in the finalist round are not permitted to vote for winners. Firms pay a small entry fee for consideration; those whose projects are accepted pay an additional publication fee based on the number of pages they choose to use. The text beginning on page 64 comes directly from the submitting firms and is not vetted by the editors of *Healthcare Design*. Projects not accepted by the jury are not published.

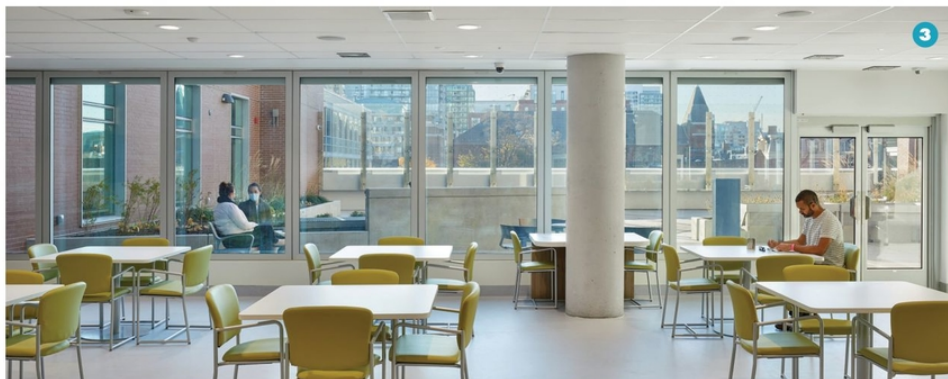
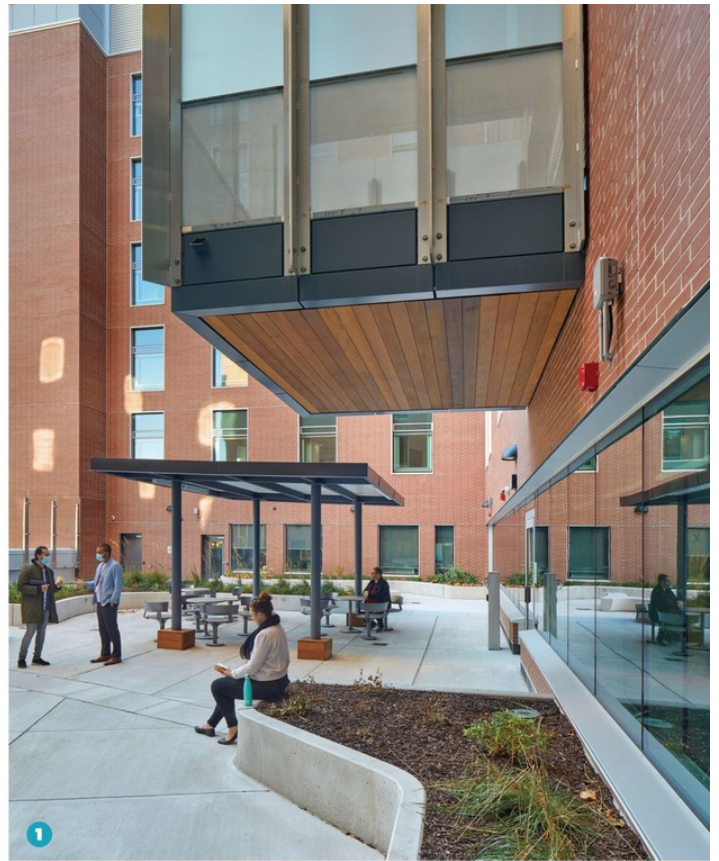
HONORABLE MENTION

CITY CENTER

Toronto's Centre for Addiction and Mental Health integrates services within its urban setting to welcome the community in

CANADA'S LARGEST mental health and addiction teaching hospital, Centre for Addiction and Mental Health (CAMH) in Toronto, set out on a redevelopment journey in 2005 to reconstruct the grounds of an 1850s asylum. The goal was to create an "urban village" that normalizes mental health treatment, right in the community it serves. Phase 1C, designed by Stantec Architecture Ltd., adds 655,000 square feet through the McCain Complex Care and Recovery Building that houses public spaces and a resource center as well as the seven-story Crisis and Critical Care Building that houses 235 inpatient beds, a psychiatric emergency department, outpatient services, and exterior therapeutic spaces. Hallmarks of the project celebrated by the jury include a robust therapeutic art program, open spaces with views to nature and easy access to the outdoors, and integration within the surrounding urban fabric. Additionally, operational efficiencies achieved through the project were applauded, thanks to the consolidation of all clinical services as well as the ED in the same building, easing patient transfers. Innovations include a real-time location system to allow patients more independence within the building and a teaching kitchen where patients can learn life skills via a program developed with a local community college. —JKS

For more on this project, see page 71.



JURY CALLOUTS

1. "Sensitive, patient-focused response in a challenging urban environment, complete with access to secured outdoor spaces; design intentions are well executed." 2. "The incorporation of diverse, simple graphic art provides a calming interior while engaging the patient and public with points of interest that can be easily changed over time." 3. "The diversity of the environment from hands-on patient care to limited care and life skills education provide for the growth of the patient through different experiential environments."



BEHAVIORAL HEALTH CENTER

Centre for Addiction and Mental Health (CAMH) Phase 1C Redevelopment

Toronto

SUBMITTED BY: STANTEC ARCHITECTURE LTD. (TORONTO)



PROJECT CATEGORY:
New construction

CHIEF ADMINISTRATOR:
David Cunic, vice president
redevelopment + support
services, CAMH

FIRM:
Stantec Architecture Ltd.,
www.stantec.com

DESIGN TEAM:
Stantec Architecture Ltd.
(architect of record); KPMB
Architects (planning,
design and conformance
architects); Montgomery
Sisam Architects Inc.
(planning, design and
conformance architects)

PHOTOGRAPHY:
Tom Arban Photography

**TOTAL BUILDING AREA
(SQ. FT.):**
655,000

**CONSTRUCTION COST/
SQ. FT.:**
Not available

**TOTAL CONSTRUCTION
COST (EXCLUDING LAND):**
Not available

COMPLETED:
October 2020



As Canada's largest mental health and addiction teaching hospital, CAMH aims to transform the lives of those affected by mental health and addiction. This transformative journey began over 170 years ago when an asylum was built in the middle of a farmer's field outside of the city of Toronto. It was surrounded by a stone wall built by patients that served to keep visitors out and patients in—a metaphor for the public attitude toward mental illness of the day. One hundred years later, the city of Toronto had grown up around the hospital, and buildings were replaced with practical but institutional-looking concrete structures.

Fast forward to today and CAMH has now completed the third of its four-phased master plan. Phase 1C of this meaningful project includes the addition of two new buildings—the McCain Complex Care & Recovery Building and the Crisis & Critical Care Building. A new urban gateway to the campus, the buildings employ evidence-based design strategies, and balance patient-focused treatment environments while promoting public interaction, curiosity, and education. The openness and positive connection these designs evoke are about coming out from behind the wall, facilitating a healing and safe transition back into the community—a pathway anyone struggling with mental health or addictions deserves.



CANCER CENTER

Hefei Ion Medical Center

Hefei, Anhui Province, China

SUBMITTED BY: STANTEC ARCHITECTURE INC.
(WASHINGTON, D.C.)



Lung, liver, stomach, and esophageal cancers are among the leading causes of death in China. With over 63 million inhabitants, Anhui province is facing steadily rising cancer rates. Located in Anhui's capital, the Hefei Ion Medical Center (HIMC) provides state-of-the-art cancer treatment at the heart of the city's high-tech zone. Proton therapy allows doctors to treat cancers more precisely, reducing levels of radiation delivered to surrounding healthy tissue and minimizing side effects. Working with HIMC and the Anhui scientific community, the design team planned and designed a prototypical facility demonstrating the benefits of combining the most recent advancements in proton therapy technology, a renewed focus on integration between oncology departments and disciplines, and a hospitality-like approach to the overall design. The facility combines an extensive medical program within one building and includes a full range of cancer treatment modalities, shared medical functions, and care team and patient-orientated functions.

Stantec's role included master planning the 11-acre park surrounding the building and serving as executive design architect for the facility to create a destination medical center focused on innovation in oncology care. Our collaboration with the Local Design Institute created opportunities to better understand the project dynamic and collective nature of creating such a new building type in China. By bringing together our respective experiences in healthcare and sharing insights in each other's cultures, it allowed the team to speak with one voice, propose innovative design solutions, and mold the building to reflect the values and expectations of the cancer population.



PROJECT CATEGORY:

New construction

CHIEF ADMINISTRATOR:

Mr. Wei Zhang, physicist,
Hefei Ion Medical Center

FIRM:

Stantec Architecture Inc.,
www.stantec.com

DESIGN TEAM:

Stantec Architecture Inc. (architecture and interior design); Varian Medical Systems (particle therapy equipment vendor); The Shanghai Institute of Architectural Design Company (local design institute); BR+A Consulting Engineers (MEP/FP/IT engineering consultants); Goldstein-Milano LLC (structural engineering consultant); China State Construction Engineering, 8th Division (contractor)

PHOTOGRAPHY:

© Jieyi Photography – Hu Yijie

TOTAL BUILDING AREA (SQ. FT.):

350,000

CONSTRUCTION COST (SQ. FT.):

\$214

TOTAL CONSTRUCTION COST (EXCLUDING LAND):

\$75 million

COMPLETED:

June 2020

MEDICAL OFFICE BUILDING/AMBULATORY CARE CENTER

Northwestern Memorial Healthcare Orland Park Medical Office Building

Orland Park, Ill.

SUBMITTED BY: STANTEC (CHICAGO)



PROJECT CATEGORY:
Unbuilt/conceptual design

CHIEF ADMINISTRATOR:
Charles Cloutier, director
planning and construction,
Northwestern Memorial
Healthcare

FIRM:
Stantec, www.stantec.com

DESIGN TEAM:
Susan Limbrunner,
principal-in-charge
and project manager;
Rebel Roberts, principal
designer; Todd Meyer,
principal urban planner;
Herschel Block, senior
programmer and medical
planner; Maria Barillas,
senior medical planner

RENDERINGS:
Stantec

**TOTAL BUILDING AREA
(SQ. FT.):**
143,000

**CONSTRUCTION COST/
SQ. FT.:**
Not available

**TOTAL CONSTRUCTION
COST (EXCLUDING LAND):**
Not available

COMPLETION:
Not available

As part of Northwestern Medicine's Ambulatory Expansion program, a site at 159th and LaGrange was considered for a new medical office building to meet the needs of community of Orland Park. The building program included space for infusion, oncology, PT, orthopedics, an immediate care center, wellness lab, primary care, specialty care, imaging, shared and common spaces, shell space, and ground-floor retail. To respond to the municipality's plans and codes, an 'urban edge' of the development was created by pushing the buildings as close as possible to the streets, promoting walkability, reducing vehicle use, providing open space and trail connections, and reducing the use of surface parking lots with a proposed parking structure.

Design themes included a 'Civic' option that celebrates Chicago's traditional prairie architectural style with red brick masonry, limestone, generous roofline extensions, and an iconic tower intended as a landmark element at the primary site corner. A second option explored a contemporary expression of a large 'Bay Window' element that created a visual feature at the primary site corner and used wood tones and glass to invite views while also acting as a lighted beacon in the evening. In addition to the MOB development that occupied eight acres of the site, the team also worked extensively to determine strategies for site access and circulation, utility infrastructure, wetland preservation, and stormwater management, as well as concepts for potential future development on the balance of the 35-acre property.

CHILDREN'S HOSPITAL

Penn Medicine Lancaster General Health, Seraph-McSparren Pediatric Inpatient Unit

Lancaster, Pa.

SUBMITTED BY: STANTEC ARCHITECTURE AND ENGINEERING LLC (PHILADELPHIA)



PROJECT CATEGORY:
Remodel/renovation

CHIEF ADMINISTRATOR:
Mark Matuzak, director of construction, facility support, Penn Medicine Lancaster General Health

FIRM:
Stantec Architecture and Engineering LLC, www.stantec.com

DESIGN TEAM:
Stantec Architecture and Engineering LLC (architecture and interior design); Metcalfe Architecture & Design (interactive elements); Universal Services Associates Inc. (fabricators, interactive elements); Leach Wallace (MEP engineering); Benchmark Construction (general contractor)

PHOTOGRAPHY:
©2019 Jeffrey Totaro Architectural Photographer

TOTAL BUILDING AREA (SQ. FT.):
20,000

CONSTRUCTION COST/ SQ. FT.:
\$285

TOTAL CONSTRUCTION COST (EXCLUDING LAND):
\$5.7 million

COMPLETED:
September 2019



The design of an inpatient unit can be much more than “just another stay at the hospital”. In order to transform this norm, the new Seraph-McSparren Pediatric Inpatient Center is focused on the patient and family experience. Traditional core areas, often treated as separate rooms, have been designed as one large space. The greeter, parent lounge, pantry, play area, and teen spaces are commingled in an open interactive flexible space. Floor patterns, color, and changes in ceiling heights create visual interest and division of space. Interactive elements have been introduced throughout the unit to provide intuitive wayfinding as well as introduce age-appropriate diversions for the patients and their siblings.

Special attention has been given to creating care team work areas that promote collaboration amongst the clinicians in both open and enclosed settings. Offering the choice of both seated and standing work surfaces, the care team areas take into consideration staff health. Liberal use of glass at the care team work areas allow patients and their families to maintain visual contact even when staff are in a private setting.

Every effort was made to help patients and their families feel comfortable during their stay on the unit. Family-center comforts and amenities include a stocked pantry with snacks and toiletries, parent showers, and laundry facilities. Additionally, a private respite room is available for family use. The 17 private patient rooms feature generous family space with a sofa that turns into a bed for two as well as other comfortable seating and work surfaces.

CANCER CENTER

UCSF Bakar Precision Cancer Medicine Building (BPCMB)

San Francisco

SUBMITTED BY: STANTEC ARCHITECTURE INC. (SAN FRANCISCO)



PROJECT CATEGORY:
New construction

CHIEF ADMINISTRATOR:
Laurel Bray-Hanin, vice president/CCO, Helen Diller Family Comprehensive Cancer Center

FIRM:
Stantec Architecture Inc.,
www.stantec.com

DESIGN TEAM:
UCSF Health (owner); Stantec Architecture Inc. (architect of record); Rudolph & Sletten (general contractor); Rutherford & Chekene (structural engineer); Southland Industries (MEP engineers); Southland Industries (M/P design builder); Cupertino Electric with Silverman & Light (electrical design builder)

PHOTOGRAPHY:
©2019 David Wakely

TOTAL BUILDING AREA (SQ. FT.):
179,650

CONSTRUCTION COST/ SQ. FT.:
\$892

TOTAL CONSTRUCTION COST (EXCLUDING LAND):
\$172.7 million

COMPLETED:
January 2020



Those going through the difficult journey of cancer treatment no longer have to travel between buildings and across the city for care. Part of the UCSF Helen Diller Family Comprehensive Cancer Center—consistently ranked among the top cancer hospitals in California—UCSF Bakar Precision Cancer Medicine Building (BPCMB) connects top researchers, oncologists, surgeons, and clinicians in a single setting inspired by patient care.

With an innovative and progressive approach, BPCMB goes beyond traditional treatment methods. The cancer outpatient building houses 120 exam and consultant rooms, 47 infusion bays, 3 radiation oncology rooms, and 19 types of imaging services. The facility has 20 rooms for supportive programs: genetic counseling, nutrition and dietary, social work, psycho-oncology, complementary medicine, and symptom management. BPCMB also features a patient resource center with support groups, exercise classes, physical therapy, financial counseling, and yoga.

From the beginning of design, it was clear that the process of developing this project would be different. The intent to provide a community of care for patients within the building extended to the community of designers and builders who would bring the built environment to life. Just as precision, transparency, activation, and unity described how care would be delivered, those concepts drove our decisions to create a place that embodied those words. The mission to find a cure for cancer was not just UCSF's mission; it became the mission for the design-build team.