

COMPETITION VENUES

RICHMOND OVAL

Olympic Events:	Speed Skating
Venue Capacity:	8,000
Elevation:	Sea level
Investment:	\$178 million
Post Games Use:	Venue for various sport and community functions
Landscape Architects:	Phillips Farevaag Smallenberg

Text by Lucas Nightingale

On the north arm of the Fraser stands a building that appears to ripple along with the river. The Richmond Oval, newly constructed for the 2010 Olympics, opened on time and on budget December 12, 2008. But not without its challenges. Situated on the silty banks of Lulu Island, several million dollars went into the geotechnical pre-infrastructure alone, with over 100,000 cubic metres of sand placed on site for stability. The building's unique appearance is owed in part to its wood wave roof, constructed using pine-beetle kill from devastated BC forests. The curved support members, at just under 100 meters in length, are some of the longest clear-span wood beams in the world. These characteristic curves were inspired by the wing feathers of the indigenous blue heron and, fittingly, by the position of a speed-skater's arm used for balance during a turn or peel. Featuring unique details, the symbolic use of water, and beautiful concrete formwork, the landscape component of the Oval is well executed. Together, building and landscape, have transformed this waterfront site into a dynamic community space.



CYPRESS MOUNTAIN

Olympic Events:	Freestyle Skiing, Snowboarding
Venue Capacity:	12,000
Elevation:	930m
Investment:	\$16.7 million
Post Games Use:	Improved recreational and competitive skiing and snowboarding

Venue upgrades include modifications to existing runs, a new in-ground halfpipe, a snowmaking system and water reservoir, lighting, a new freestyle site for aerials and moguls, and a re-graded parallel giant slalom course. Construction began in May 2006, following a comprehensive environmental review. Venue improvements were completed by fall 2007. In November 2006, the freestyle venue became the first 2010 Winter Games site to be ready for competition. Cypress Mountain is one of the most popular skiing areas in British Columbia, attracting hundreds of thousands of visitors each year. The 2010 Winter Games upgrades will enhance the Cypress experience for both recreational and competitive users.





SURREY GAMES PREPARATION FACILITY

Olympic Events:	Volunteer Training
Venue Capacity:	NA
Elevation:	85m
Investment:	\$ 12.75 million
Post Games Use:	To become the Chuck Bailey Recreation Centre
Landscape Architects:	van der Zalm + associates Inc.

Text by Jacqueline Lowe, BCCLA Intern Member

Surrey's City Centre neighbourhood has crowned a new landmark building. Amidst an area in transition, a 12 meter solid glass cube stands as an icon of invitation, spirit, and community. The cube serves as atrium to welcome visitors into a new full sized gymnasium and multi-purpose facility now known as the Chuck Bailey Recreation Centre. Originally named the Surrey Games Preparation Centre; this building was used to train Olympic volunteers and is Surrey's only Olympic venue. The facility is encapsulated by two reflective ponds and large welcoming plaza. The plaza features solid granite seating elements and paving patterns play on the forms of the cube and spirit of the games and were custom designed by the landscape architects. During the Games the high-resolution urban artwork will be projected onto the side of the building for some 30,000 Skytrain users to view. The use of a high powered projector to show full wall length artwork is part of the City's initiative to be part of the Glocal Project; an urban screen project movement that has been popular across Europe and is now making its way to North America.

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Surrey Games Facility: Jacqueline Lowe

Vancouver Olympic Village: Randy Sharp



WHISTLER OLYMPIC/PARALYMPIC PARK

Olympic Events:	Olympic Biathlon, Cross-country Skiing, Nordic Combined, Ski Jumping; Paralympic Biathlon, Cross-country Skiing
Venue Capacity:	12,000 (Olympic); 6,000 (Paralympic)
Elevation:	850-910m
Investment:	\$119.7 million
Post Games Use:	Serve as a recreational and performance venue for local residents and visitors

Landscape Architects: Tom Barratt Landscape Architects (Graphics and Mapping)

The Whistler Olympic and Paralympic Park is making history. For the first time in games' history, all Nordic sports will be held at the same venue, including Olympic and Paralympic biathlon and cross-country skiing, as well as Olympic Nordic combined and ski jumping. But this venue is making history in other ways too. Keeping with the core value of sustainability at the Vancouver 2010 Olympic and Paralympic Games, at the heart of the venue stands the 11,000 sq. foot day lodge featuring an impressive wastewater treatment plant that employs tertiary membrane filtration and ultraviolet disinfection.

The entire Olympic site, which will host 30 per cent of Olympic events and 50 percent of Paralympic events, was built on previously forested land and improved upon of ski trail networks that were already in use. Additional sustainable initiatives include water efficient landscaping and reuse or recycling of over 75 per cent of construction wastes to avoid deposition in landfill.



THE WHISTLER SLIDING CENTRE

Olympic Events:	Bobsleigh, Luge, Skeleton
Venue Capacity:	12,000
Elevation:	935m (top); 785m (bottom)
Investment:	\$104.9 million
Post Games Use:	Serve as a facility for the introduction of sliding sports to Whistler visitors

Known to Squamish First Nations people as Wild Spirit Place, the serene Fitzsimmons valley on the southeast side of Blackcomb Mountain will aptly host some the wildest events that the Vancouver 2010 Olympic and Paralympic Games have to offer- the sliding sports. The Whistler Sliding Centre's 1,450 m concrete, energy-efficient ammonia refrigerated track is the competition venue for bobsleigh, luge and skeleton. One of only 15 sliding tracks in the world, and two in Canada, the new facility is the fastest and most challenging to date. With 16 corners and vertical drop of 152 m, the track required 100 km of refrigeration piping and 12,000 m of steel conduit. Heat waste from the refrigeration plant will be captured and reused

Architectural services for this site were provided by Stantec Architecture Inc. and the track itself was designed by Udo Gurgel of IBG Designs, Germany. Following the games, the sliding centre will promote sliding sports to locals and visitors alike, offering facility tours, demonstrations and certification programs.





VANCOUVER OLYMPIC/PARALYMPIC CENTRE

Olympic Events:	Olympic Curling; Paralympic Wheelchair Curling
Venue Capacity:	6,000
Elevation:	74m
Investment:	\$40 million
Post Games Use:	Multi-purpose community recreation centre
Landscape Architects:	PWL Partnership Landscape Architects Inc.

The Vancouver Olympic/Paralympic Centre will play host to the Olympic Curling and Paralympic Wheelchair Curling events of the games. The 9,290 m² rink situated in the Riley-Hillcrest community of Vancouver, near Queen Elizabeth Park, is surrounded by green space, offers stunning views the North Shore Mountains, and as part of the Vancouver 2010 Venues Aboriginal Arts Program, will feature aboriginal art from across Canada.

The venue is part of new multi-purpose recreation complex expected to draw people from the entire city following the games. With expected completion in Spring 2011, in addition to curling facilities, the complex will feature an aquatic centre with indoor and outdoor pools, fitness facilities, public library branch, and more.

Architects, Hughes Condon Marler, and landscape architects, PWL Partnership, are aiming for LEED® Gold certification. Replacing the existing community centre, there has been no loss of green space and trees that needed to be removed from the site have been replaced elsewhere in the park. Other features include a sustainably resourced wood roof and heating for the curling rink and adjacent aquatic centre provided by excess heat created from cooling the rink's ice surface.



UBC THUNDERBIRD ARENA

Olympic Events:	Olympic Ice Hockey; Paralympic Ice Sledge Hockey
Venue Capacity:	7,200
Elevation:	90m
Investment:	\$47.8 Million
Post Games Use:	multi-sport recreational facility
Landscape Architects:	Sharp & Diamond Landscape Architects

The UBC Thunderbird Arena is a competition winning design/build project for the 2010 Winter Olympics and Paralympics Winter Games. The preservation of large trees and use of native plant material establishes a strong Pacific Northwest character. Project objectives included: the use of strong simple local materials, reflect the campus surroundings and improve pedestrian connectivity. Project accommodated existing rink operations while under construction and was delivered 3 months ahead of schedule and on budget. The integrated design build team evaluated options to improve project, long term operations, accessibility, and earthworks, throughout design and construction process. In partnership with Museum of Anthropology, the venue showcases (7) pieces of Aboriginal Artwork representing the Musqueam Band. Following the 2010 Winter Games, the venue will become a community recreational and high performance multi-sport legacy facility. The project targeted LEED™ Silver.

PACIFIC COLISEUM

Olympic Events:	Figure skating; Short Track Speed Skating
Venue Capacity:	16,000
Elevation:	26m
Investment:	\$20.4 million
Post Games Use:	Continued use as a multi-purpose event venue

Text by Lucas Nightingale

The Pacific Coliseum will be the oldest sporting venue at the Vancouver Olympics, and this history offers a look into Vancouver's sporting tradition. Built in 1968, the arena was home to the Vancouver Canucks for two seasons until they joined the NHL in 1970. The Canucks have since moved to GM Place (Canada Hockey Place) with the Coliseum becoming home base for the WHL's Vancouver Giants. While the Coliseum is perhaps most remembered for hosting the 2006 World Junior Hockey Championships and game four of the 1972 Summit Series, it has been a venue for a variety of sports including the North American Soccer League and Roller Hockey International. The facility has undergone a significant facelift over the past two years in preparation for the Games; improvements include the replacement of its nearly 16,000 seats, an upgraded HVAC system, expansion of the ice surface to international size, and revitalization of the main entrance plaza.



WHISTLER CREEKSIDE

Olympic Events:	Olympic and Paralympic Alpine Skiing
Venue Capacity:	7,600 (Olympic); 6,000 (Paralympic)
Elevation:	810m
Investment:	\$27.6 million
Post Games Use:	Continued use for recreational skiers and host to international competitions

Come February Whister Creekside will host the alpine skiing events for the 2010 Winter Olympic and Paralympic games, where spectators – up to 7,600 of them – can witness athletes negotiate the steep terrain at speeds exceeding 130 km/hr. Like many of the 2010 Winter Games venues, Whister Creekside is no stranger to hosting world-class competition. Located approximately 10 minutes south of the main Whistler Village, much of the infrastructure for the alpine ski events was already in existence and required only minimal upgrades.

Among the modifications were reshaping of the pre-existing ski courses, installation of energy-efficient snowmaking equipment, and construction of skier underpasses that will enable recreational skiing to continue throughout the games. All modifications were designed to minimize disturbances to vegetation and, during construction, special care was taken to preserve wildlife and aquaculture, including an intensive tadpole and frog relocation program. The men's events will take place on the second largest downhill course in the world, the Dave Murray Downhill, while women's events will take place on Franz's run.



NON-COMPETITION VENUES

VANCOUVER OLYMPIC/PARALYMPIC VILLAGE

Elevation: 5m
Olympic Capacity: 2,730
Investment: \$1,075 Million (Estimated)
Post Games Use: Housing for 16,000 people, community centre, elementary school, three child care centres, public plaza, community garden and more
Landscape Architects: PWL Partnership Landscape Architects Inc.
Durante Kreuk Ltd.
Phillips Farevaag Smallerberg



WHISTLER OLYMPIC/PARALYMPIC VILLAGE

Elevation: 625m
Olympic Capacity: 2,850
Investment: \$120 Million (Estimated)
Post Games Use: Employee housing in a new neighbourhood that will be a model of sustainable living
Landscape Architects: Tom Barratt and Crosland Doak
Brent Harley and Eldon Beck
Senga Landscape Architecture Inc.



MAIN MEDIA CENTRE

Media Capacity: 7,000
Elevation: Sea level
Investment: \$883 Million
Post Games Use: Continued use as an expanded Conference Centre
Landscape Architects: PWL Partnership Landscape Architects Inc.



BC PLACE STADIUM

Olympic Events: Paralympic Opening Ceremony here – Closing at Whistler
Some medal Ceremonies for Paralympics will take place at the venue following competition.
Venue Capacity: 60,000
Elevation: 8m
Investment: None
Post Games Use: Continued home to the BC Lions and host to concerts and events

