

WOOD DESIGN & BUILDING®

SUMMER 2011 — NUMBER 55

Folger Estate Stable

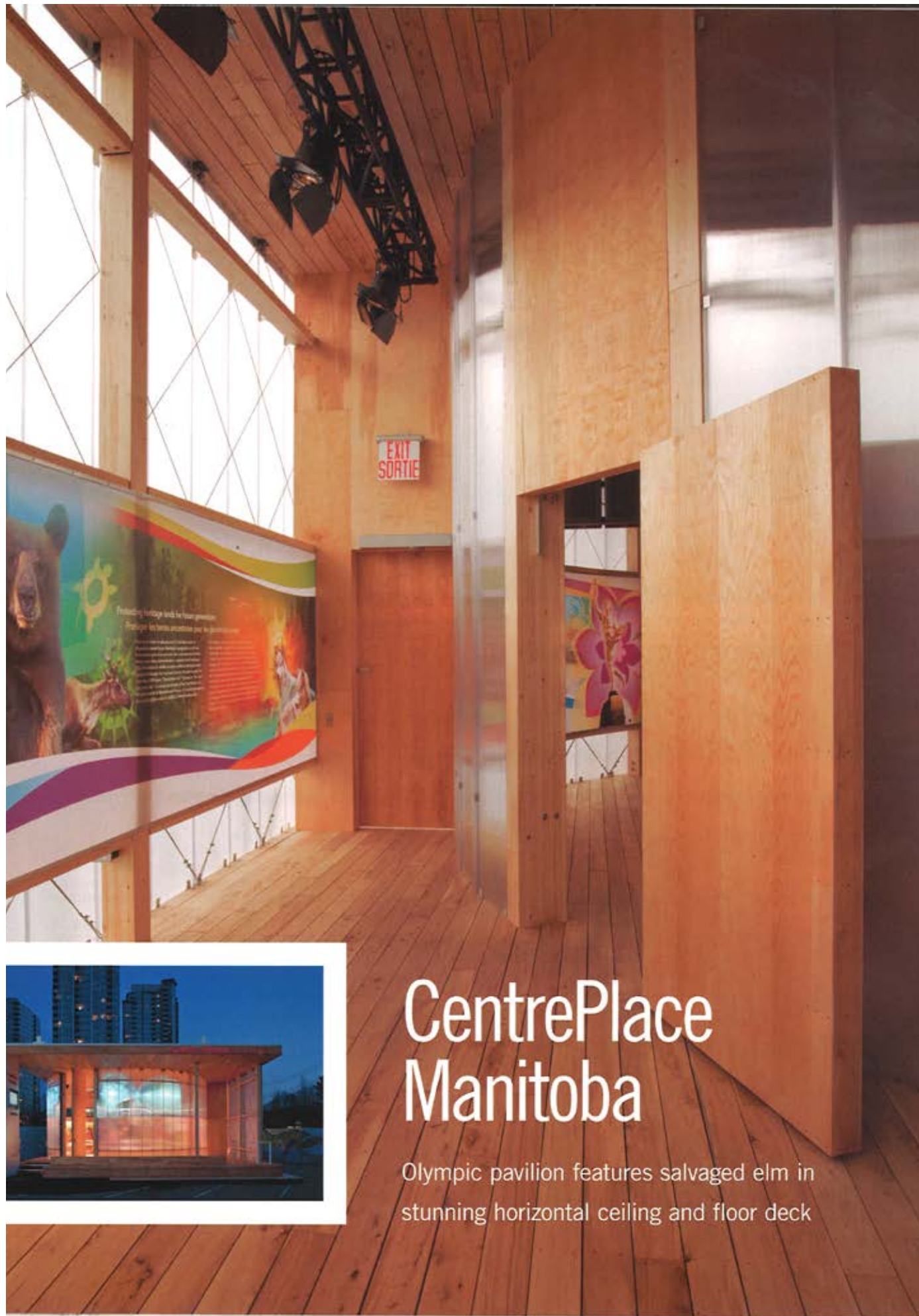
HISTORICAL REHABILITATION RESTORES
GRANDEUR OF TIMBER STABLE

Casey Key Guest House

RESIDENCE DRAWS INSPIRATION
FROM LIVE OAKS ON SITE

CentrePlace Manitoba

OLYMPIC PAVILION FEATURES SALVAGED
ELM IN HORIZONTAL TREATMENT



CentrePlace Manitoba

Olympic pavilion features salvaged elm in
stunning horizontal ceiling and floor deck



Above: The reclaimed elm soffit makes a vibrant, uniquely Manitoban architectural statement, saving 100 diseased trees from landfill to produce the 7,000 board feet of timber required for the pavilion's flooring and soffit

CentrePlace Manitoba was commissioned by the Province of Manitoba. The intent of the project was to create an Olympic pavilion that embodied the energy of the province and its people; reinforced Manitoba's position as a center for culture and trade in the global community; and, most importantly, demonstrated Manitoba's commitment to sustainability.

Wood products were chosen for the design because of their sustainable attributes, durability, and ability to be quickly assembled and disassembled as a kit of parts.

The pavilion's most stunning feature is the assemblage of horizontal wood planes that form the ceiling and floor decks and enclose the illuminated translucent polycarbonate skin. These, along with the monolithic solid bench that rests at the entry ramp, were fabricated from reclaimed elm salvaged from the City of Winnipeg's landfill site. Winnipeg has one of the largest urban elm forests in North America, however every year a huge number of trees succumb to Dutch elm disease and have to be cut down. Once these trees are debarked, they can be milled down and used for construction with no risk of spreading the disease. The pavilion used over 7,000 board feet of reclaimed diseased elm, saving over 100 trees from the landfill to


create a warm and inviting sensory experience reminiscent of Manitoba's cottage country.

In order to provide a post-Olympic legacy beyond the pavilion's initial six-week life span, the project was conceived as a pre-fabricated structure. Pre-fabricated wood components streamlined construction and disassembly processes, maximized the use of Manitoba materials and labor, and supported innovative Manitoban wood manufacturing companies like Wood Anchor and Western Archrib.

The elm-clad floor deck is comprised of ten 8 ft. x 26 ft.-long modules constructed with pressure treated lumber, while the elm clad roof soffit is comprised of eight 8 ft. x 40 ft.-long modules constructed of engineered wood joists. Once these components reached the building site, they were fastened together and the roof system was lifted in one piece, by crane, onto the

glulam columns. The pivoting wood doors (7 ft.-wide and 16 ft.-high) constructed of 4 x 8 birch plywood panels were also prefabricated in Manitoba, as were the curved spruce glulam beams and the glulam columns.

Significant thought and coordination was also put into limiting the amount of material used to minimize the cost and implications associated with transportation. All components were designed to fit on three flatbed trailers for transport to Vancouver. Shipping materials like the plywood strapping used for transporting roof and deck modules were reused as exterior cladding on the rear portion of the structure.

CentrePlace Manitoba was the only pavilion to be awarded the 2010 Olympic and Paralympic Winter Games (VANOC) Sustainability Star to highlight sustainability in action. 

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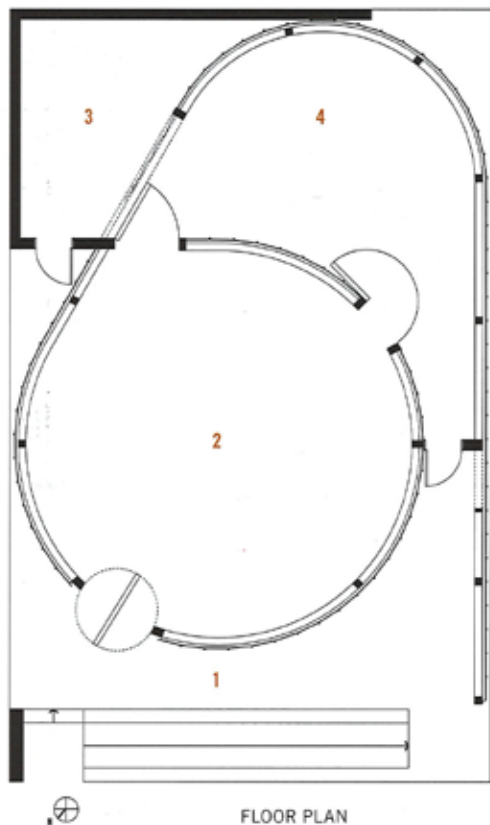
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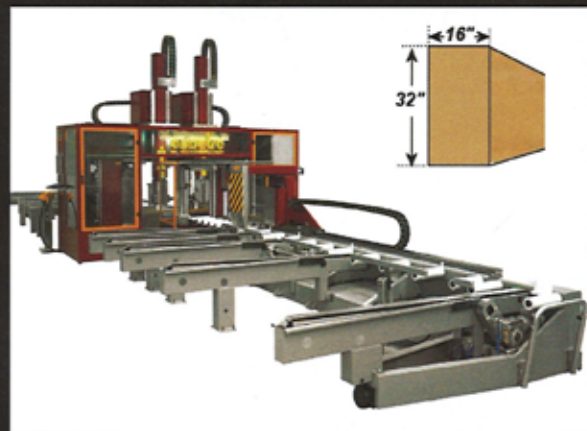


1. queuing area
2. exhibition area
3. storage
4. multi-purpose area

FLOOR PLAN

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