




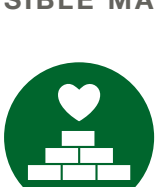





# CAMP KAWARTHA LIVING BUILDING PROJECT

CAMP KAWARTHA IS STRIVING TO BUILD ONE OF THE **FIRST FULLY CERTIFIED** LIVING BUILDINGS IN CANADA

The Living Building Challenge is organized into seven performance areas called **PETALS**. Each Petal is further sub-divided into **IMPERATIVES**, which address specific issues through detailed requirements. These are a summary of key imperatives related to the concept of this project.

PETALS	PLACE		WATER		EQUITY		ENERGY		MATERIALS		HEALTH + HAPPINESS		BEAUTY + SPIRIT					
	Only build where it is acceptable to build, protect and restore a place once it has been developed, and encourage the creation of communities that are based on people and nature. For each hectare of development, an equal amount of land will be set aside in perpetuity.		Realign how people use water and redefine 'waste' in the built environment. Use 100% of storm water on-site for internal water needs.		Spaces that are accessible to all, while also allowing access to fresh air, sunlight and waterways. Supporting a just and sustainable world.		Rely solely on renewable forms of energy and operate year round in a pollution-free manner to attain net-zero energy.		Supporting a circular and regenerative economy by creating products that use healthy and safe inputs, and eliminating concepts of waste.		Contribute to an active, healthy lifestyle that nurtures the innate human/nature connection. Optimizing the health of products and creating environments that promote psychological well-being.		Buildings that elevate our spirits. Genuine effort to create aesthetically pleasing designs and environments. Creating opportunities for learning experiences about the project and its connection to the rest of the world.					
IMPERATIVES	URBAN AGRICULTURAL SPACE		HABITAT EXCHANGE		NET POSITIVE WATER		ACCESS TO NATURE		NET POSITIVE ENERGY		RESPONSIBLE MATERIALS		HEALTH		BEAUTY		EDUCATION	
																		








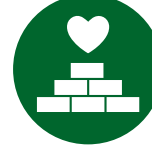



<b>05 EXISTING ROTARY HALL</b> <p>The existing Rotary Hall will be incorporated into the new facility to assist in the project's ambition of net positive waste. Reuse of existing materials and structures teaches us to conserve our natural resources and lessens the overall impact associated with material harvesting and processing, thereby reducing water use, energy use and waste production. The existing straw bale construction will remain as an educational feature of within the building.</p>	<b>06 DINING HALL</b> <p>The dining hall proposes a cross-laminated timber structure that focuses visibility to the surrounding natural landscapes and is choreographed to create distinct spaces for different types of programming opportunities. Windows are sheltered from summer sun by large overhangs, and include operable windows for access to fresh air and cross ventilation. Roof-lines are oriented to maximize solar energy collection and divert storm water for capture and use within the building. Connections are deliberately exposed to support ongoing educational opportunities</p>	<b>20 KITCHEN</b> <p>The project intends to celebrate food and agriculture with the intent to re-establish a tie between humans and their nourishment; communities to their land. As such, the kitchen is centrally located on the site and within the floor plan to create high visibility and accessibility. The kitchen will subscribe to the net zero-waste target and enhance best practices such as compost and local agriculture for educational opportunities. Investing in food education will support a healthy lifestyle.</p>	<b>07 ENTRANCE LOBBY</b> <p>The entrance lobby is central within the floor plan and the major point of circulation. The design proposes a large two-storey volume that includes a feature living wall as the threshold to the dining space. The two storey lobby space steps above the roof-line to catch sunlight to support the growth of the living wall, which in turn, helps to filter the air and provide food production. Anchoring this central space with a large living wall enhances access to nature and provides additional educational opportunities within the building</p>	<b>21 OUTDOOR KITCHEN</b> <p>The main entrance to the building is sheltered beneath a large overhead canopy that includes a space dedicated to the outdoor kitchen and related outdoor activities. Sheltered from the elements, this space can be programmed regardless of weather conditions. In conjunction with the main kitchen space, the outdoor kitchen will celebrate food and agricultural literacy, while promoting concepts of waste reduction, environmental living and a healthy lifestyle. The outdoor kitchen will include on-site composting and bio-gas generation for cooking.</p>	<b>11 DORMS</b> <p>There are five dorms that are located within the living building that can accommodate up to 40 guests. The dorms are sized to be fully accessible, complete with large operable windows for cross ventilation and southern exposure for passive solar design. The dorms will be constructed with local materials and feature a green roof system.</p>
<b>15 SCREENED PORCH</b> <p>A screened porch is included as the link between the dorms and the dining hall lobby. This space features a view to the lake and surrounding natural landscape and provides a quiet space to enjoy nature. Covered outdoor spaces such as this are sheltered by large roof overhangs that also generate enough roof area to achieve net positive energy with on-site solar panels. These roof overhangs also work to collect rainwater for harvesting and use within the building.</p>	<b>09 WASHROOMS</b> <p>All the washrooms within the facility are gender neutral to ensure the design is fully inclusive. Washrooms are connected to living machine waste water treatment to achieve the net positive water targets of the project. One hundred percent of the project's water needs must be supplied by captured precipitation or other natural closed-loop water systems.</p>	<b>08 LAVATORY CLOSET</b> <p>The lavatory is one of most tactile experiences that we have with the water that we use. The design proposes that this experience is shared and celebrated as a prominent space within the building. Concepts of water independence are crucial to a changing world. The design proposes a shared experience for the lavatory and water use to raise awareness of water consumption and scarcity. Key spaces such as these further reinforce the educational and experiential opportunities within the new living building.</p>	<b>27 COMMUNAL TERRACE</b> <p>A large outdoor terrace is fanned-out to maximize the view of the lake and the surrounding natural landscape. Movable planter boxes allow opportunities for urban agriculture and space division. The terrace has connection to the dining hall and main entrance lobby to allow the opportunity to be programmed together for large events or special occasions. Building features such as green roof elements, solar panels and a rainwater harvesting cistern have the opportunity to be assembled here as part of an educational experience.</p>	<b>29 GARDENS AND TRAILS</b> <p>The design proposes to take advantage of the natural tiering of the landscape from the upper common to the lower common for urban agricultural use and habitat enhancements. The existing tree canopy would remain with sensitive improvements to support food production for the camp and pollinators. Due to the tiered landscape, these features would be visible from the terrace and further enhance the educational and beautification targets of the project.</p>	<b>02/03 COMMONS</b> <p>The existing upper and lower commons are key areas that support active lifestyles and our connection with nature. The new living building project strives to enhance the connection between major outdoor spaces, as well as connecting trails and pedestrian networks to support human-powered living, and to restore a healthy interrelationship with nature.</p>

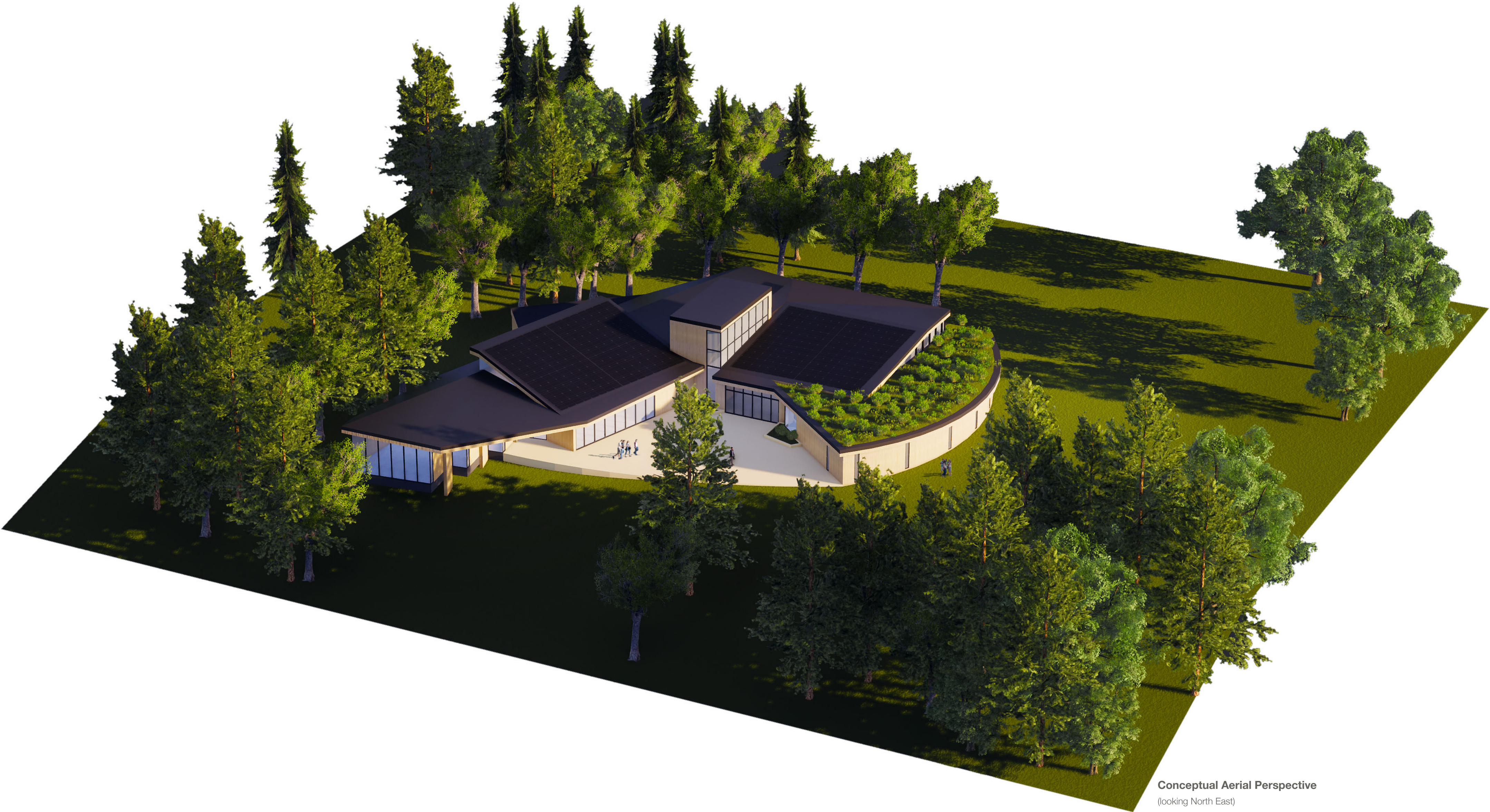


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Conceptual Aerial Perspective  
(looking North East)



Solar Panels



Living Roof



Canopy



Landscape



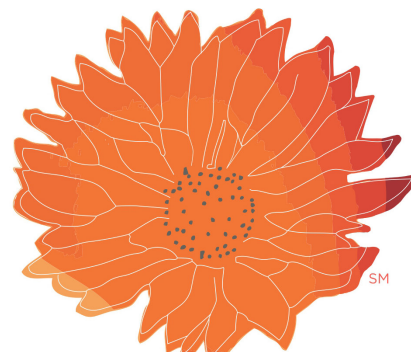
Cantilever



Terrace



Conceptual Human Eye Perspective  
(looking North West)



LIVING  
BUILDING  
CHALLENGE

THE LIVING BUILDING CHALLENGE IS THE WORLD'S  
MOST STRINGENT GREEN BUILDING CERTIFICATION



LETT  
ARCHITECTS  
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