

Module V

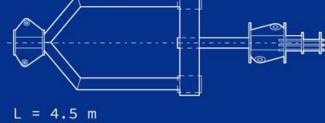
Project Description:

Bring Olympic to Public. The Module-V project repurposes dismantled roof components from Montreal's Olympic Park, offering a sustainable solution that revitalizes the community and stimulates the waterfront economy.

Hosting the Olympics is a prestigious honor but it involves significant infrastructure costs. The initiative transforms the remnants of the iconic Olympic Stadium Roof into functional, community-serving structures. The system is designed to be versatile and seasonal, reflecting the multifaceted programs of the Olympic Stadium. The modular structure can form various configurations, such as the V-Promenade, V-Turns, V-Peninsula, and V-Rings, adopting Montreal's islandly urban fabric. The combinations can transform in several ways: a seasonal pedestrian promenades, biking and walking friendly path, Community engagement that encourages interaction and Micro Forest that can contribute to urban biodiversity and provide natural oases. The decentralization concept disassembles a large-scale architectural structure into smaller, human-scale infrastructures distributed across the city, maximizing their social impact.

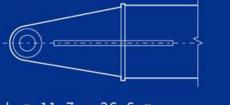


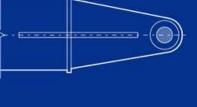
)	STAY CABLES Zinc-coated Parallel and Helical Steel Wire
	L = 95.8 -174.9 m ø = 61, 64, 70, 79, 86, 114 et 124 mm x 26
	OUTER MEMBRANE Sheerfill II 2546 units x10m2 per unit x 73 kg per unit 25,481 m2
	NETWORK CABLES Zinc-Coated Parallel and Helical Steel Wire
	L = 16 -35.5 m ø = 1.875; 2.125; 2.25; 2.5; 2.875; 3.25; 3.5; 4 and 4.5 in x 98
)	TOP PANEL CABLES Zinc-Coated Parallel and Helical Steel Wire
	L = 2.1 - 20.6 m ø = 28.6mm × 1172
	FLYING MASTS Pipe w. Plate
	L = 6.5 - 7.5 m × 103
)	FLYING FORKS Pipe w. Plate





STRUTS



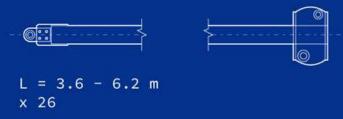


L = 11.7 - 26.6 m x 90

BOTTOM PANEL CABLES Zinc-Coated Parallel and Helical Steel Wire

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L		4		16	m					
х	47	78								

LINER HANGERS

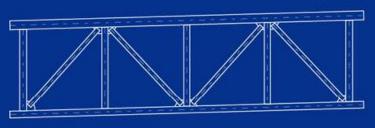


LINER CABLES Zinc-Coated Parallel and Helical Steel Wire



LINER MEMBRANE Shelter-Rite 8028 PVC with Tedlar finish. S = 16,538 m² Total

PERIMETER TRUSS

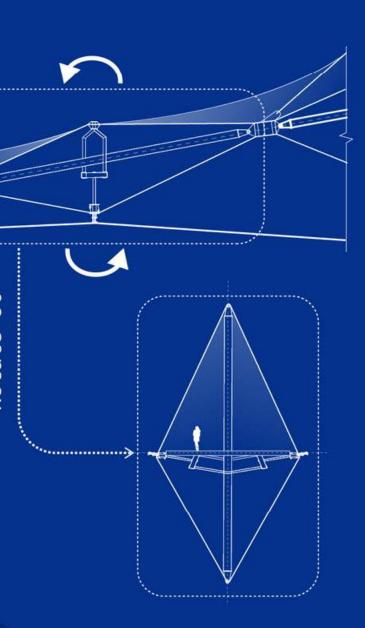


COMPRESSION RING

NEW MATERIAL

* A CONCRETE FOUNDATION PILE

* B GRATING * C CABLE RAILING

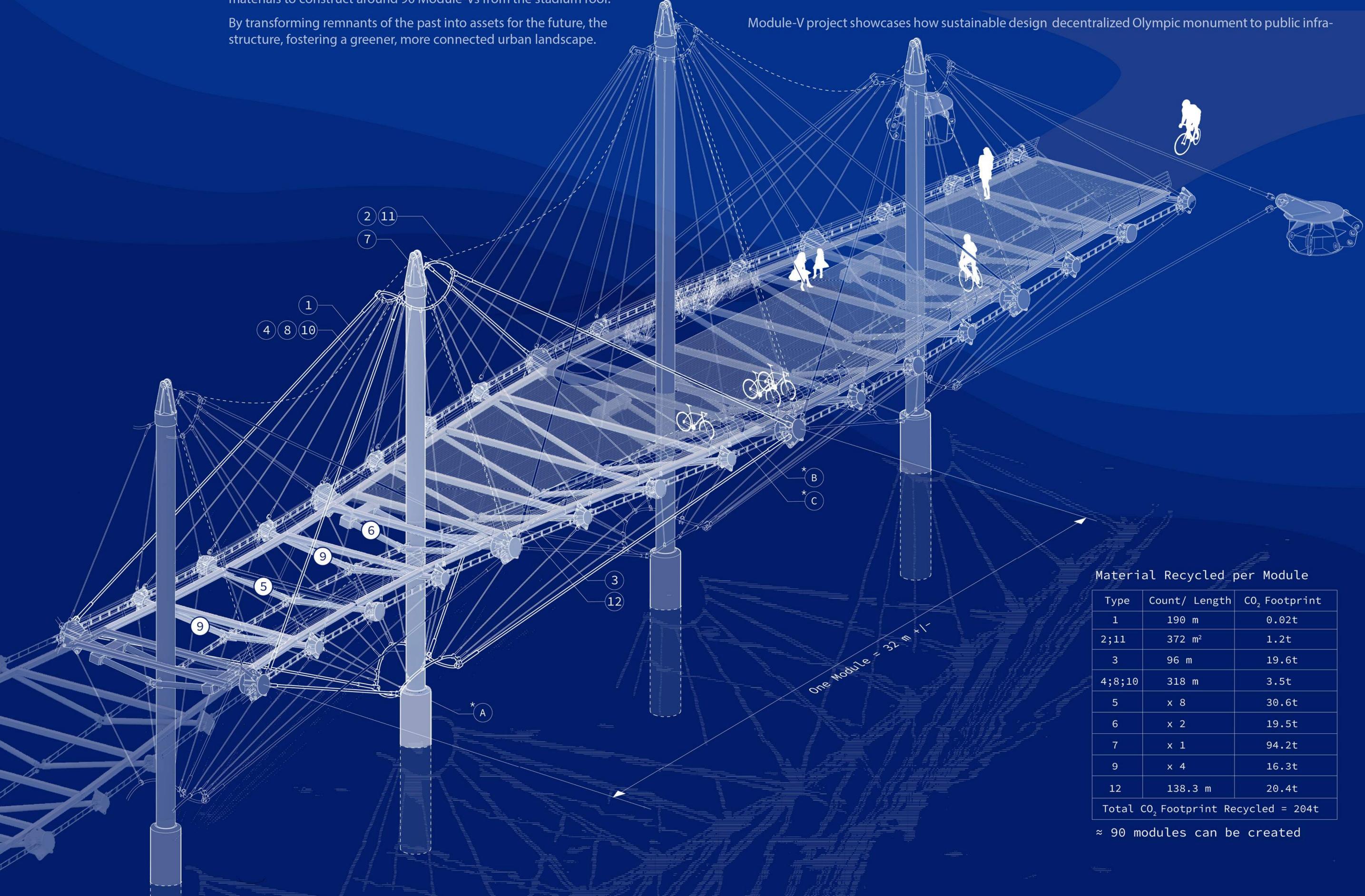


MODULE V

Bring Olympic to Public. The Module-V project repurposes dismantled roof components from Montreal's Olympic Park, offering a sustainable solution that revitalizes the community and stimulates the waterfront economy. Embracing the principles of circular economy and decentralization, this initiative transforms the remnants of the iconic Olympic Stadium Roof into functional, community-serving structures.

Hosting the Olympics is a prestigious honor for any city, but it often involves significant infrastructure costs. By 2006, the stadium's costs were finally paid in full, 30 years after its inauguration. This project aimed to channel past investments back to the people and community to create new public amenities with minimum carbon emission. The Module-V system is designed to be versatile and seasonal, reflecting the multifaceted programs of the Olympic Stadium. The modular structure can form various configurations, such as the V-Promenade, V-Turns, V-Peninsula, and V-Rings. These configurations adapt to Montreal's islandly urban fabric. The combinations can transform urban spaces in several ways: a seasonal pedestrian promenades, biking and walking friendly path, Community engagement that encourages interaction and Micro Forest that can contribute to urban biodiversity and provide natural oases. The decentralization concept disassembles a large-scale architectural structure into smaller, human-scale infrastructures distributed across the city, maximizing their social impact.

The module incorporates strong structural clarity and integrity tied to its original structural characteristic. By rotating the existing perimeter modules 90 degrees, the double V-shaped structure utilizes the existing Struts as posts. The unique "Flying Forks" serve as diaphragms support integrated into the posts and anchored by cables, mirroring their original installation. The "Flying Masts" are positioned in parallel to the Flying Fork, maintaining their role as tension mast. A retractable membranes, reminiscent of the stadium's initial roof design, provide wind shelter in winter, creating habitable spaces within the Vs in all seasons. Each 32-meter Module-V can recycle approximately 204 tons of CO2, equivalent to the annual electricity consumption of 38 households. With enough materials to construct around 90 Module-Vs from the stadium roof.



al Recycled per Module					
Count/ Length	CO ₂ Footprint				
190 m	0.02t				
372 m ²	1.2t				
96 m	19.6t				
318 m	3.5t				
x 8	30.6t				
x 2	19.5t				
× 1	94.2t				
x 4	16.3t				
138.3 m	20.4t				
CO ₂ Footprint Recycled = 204t					
odules can be created					

