PALOUSE ICE RINK

The Palouse Ice Rink replacement is an opportunity to demonstrate the affordability, sustainability, and dynamic feel wood can lend to design. Innovative glulam trusses bring energy to the new rink.

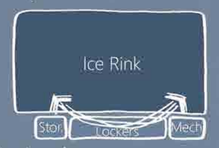
Precedent Analysis

The Richmond Olympic Oval (2009) in Richmond, BC is an Olympic ice facility in British Columbia. Long-span wood was used innovatively throughout. Natural daylighting was used throughout and it received a LEED Silver certification.

The Washington Fruit and Produce Building in Yakima, WA utilizes double glulam trusses with steel tension rods to create a warm and inviting open office floor plan. The components are simple and repeatable (i.e. economical) yet create an intricate and beautiful structure.

These two projects show that wood can be used effectively, sustainably, and efficiently to span long distances.

Entry Mezzanine

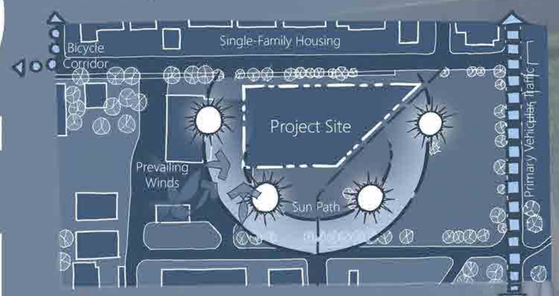


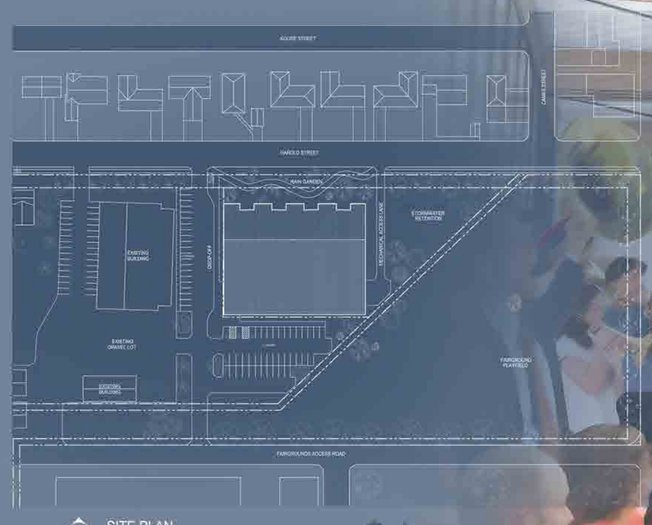
Ice Level

Building Program

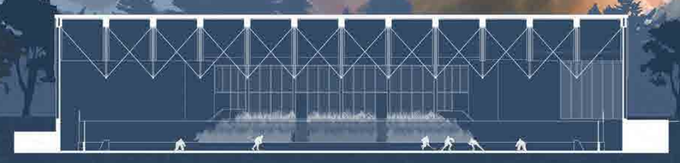
Ice Rink	
Ice Sheet	17,000 SF
Circulation/Ice Access	3,000 SF
Arena Support Spaces	
Airlock Entry	300 SF
Concourse w/Visitor Seating	1,000 SF
Spectator Seating	600 SF
Food	300 SF
Skate Rental	300 SF
Skate Storage/Sharpening	150 SF
Manager's Office	250 SF
Staff Lockers	300 SF
Public Restrooms	800 SF
Classroom/Meeting Room	750 SF
Athlete's Space	
Locker Rooms	4,600 SF
Referee Changing Room	580 SF
Storage	800 SF
Club Storage	200 SF
Support Spaces	
Ice Resurfacer	500 SF
Mechanical	740 SF
Electrical	175 SF
Communications	175 SF
Circulation	3,970 SF
Total	**34,000 SF**

Site Analysis





N SITE PLAN
0 40 80 120 200 FT



LONGITUDINAL SECTION
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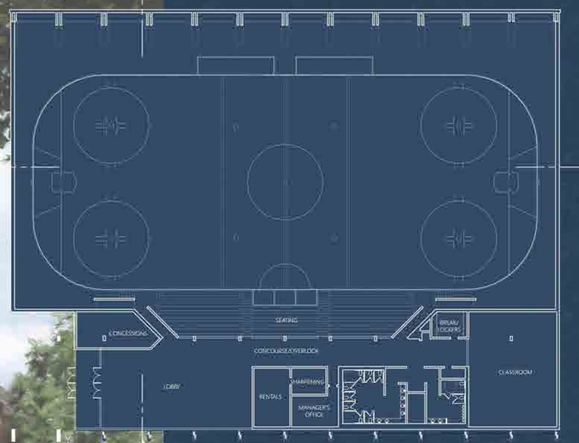
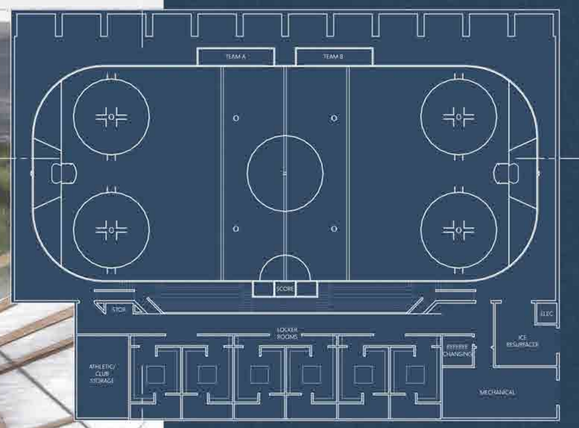


N MEZZANINE ENTRY LEVEL
0 10 20 30 50 FT



N ICE LEVEL
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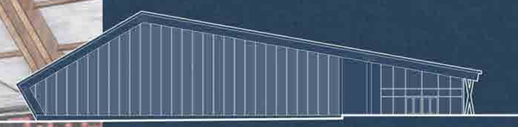

WEST ELEVATION
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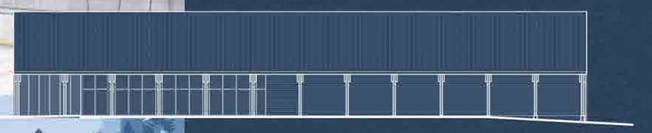

SOUTH ELEVATION
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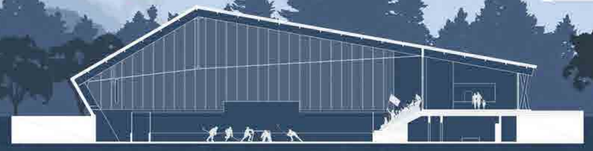

TRANSVERSE SECTION
0 10 20 30 50 FT

Massing Model

Structural Model

Structural Detail Model