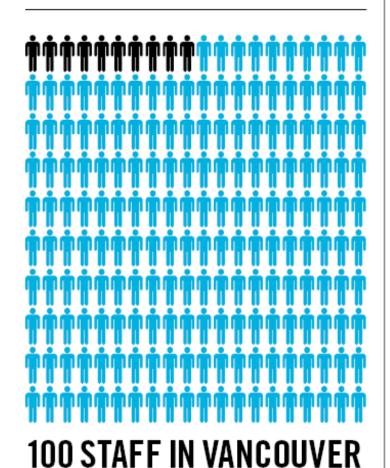


#### PERKINS+WILL

## FIRM FOUNDED 1935 OUR OFFICE FOUNDED 1984



2,000 STAFF WORLDWIDE

## SMALL STUDIO SERVICE BIG FIRM RESOURCES

#### DISCIPLINES

Architecture
Interior Design
Branded Environments
Planning + Strategies
Urban Design

## IDEAS + BUILDINGS THAT HONOUR THE BROADER GOALS OF SOCIETY

We believe that design has the power to positively transform people and the planet.



#### 20+ OFFICES / A GLOBAL PRACTICE WORKING ON 6 CONTINENTS

#### VANCOUVER OFFICE: RANKINGS + AWARDS

250+

Design Honours

#### 9 YEARS

Consecutive as one of Canada's Greenest Employers + 5 Years as one of BC's Top Employers 1%

Donated annually to in-kind design services

## WE'VE BEEN DOING THIS A WHILE



2002 Brentwood SkyTrain Station

Materials Testing Lab Gilmore Skytrain Station



1995 District of North Vancouver Municipal Hall



White Rock Operations Building

Centennial Arena

Navel Officer Training Facility

Squamish Li'lWat Cultural Centre

SFU – Blusson & Saywell Hall

Kingsway Pedestrian Bridge

Canada Line Stations

CrossRoads

Dockside Green

Laurentian University Vale LWL Centre

● UBC – CIRS

Samuel Brighouse Elementary School

UBC – Earth Sciences Building

Pitt River Middle School

Tall Wood Study

Marine Gateway

Nexen Housing Module Prototype

Evergreen Line Stations

Nail Laminated Timber Guide

SFU – Student Union Building

**GNW Pavilion** 

Delta Development

2016 University of British Columbia **Orchard Commons** 

#### 1 GROWTH & DENSITY



#### 2 TIPPING POINT

25% GLOBAL WATER



33% GHG EMISSIONS

# do less harm do more good

## 3 HOLISTIC APPROACH



### 4 INNOVATION INCENTIVE









#### WHAT IS MASS TIMBER?







**LIGHT**WOOD
FRAME

SOLID SAWN TIMBER **ENGINEERED**MASS TIMBER

#### MASS TIMBER TYPES



**CLT**CROSS
LAMINATED
TIMBER

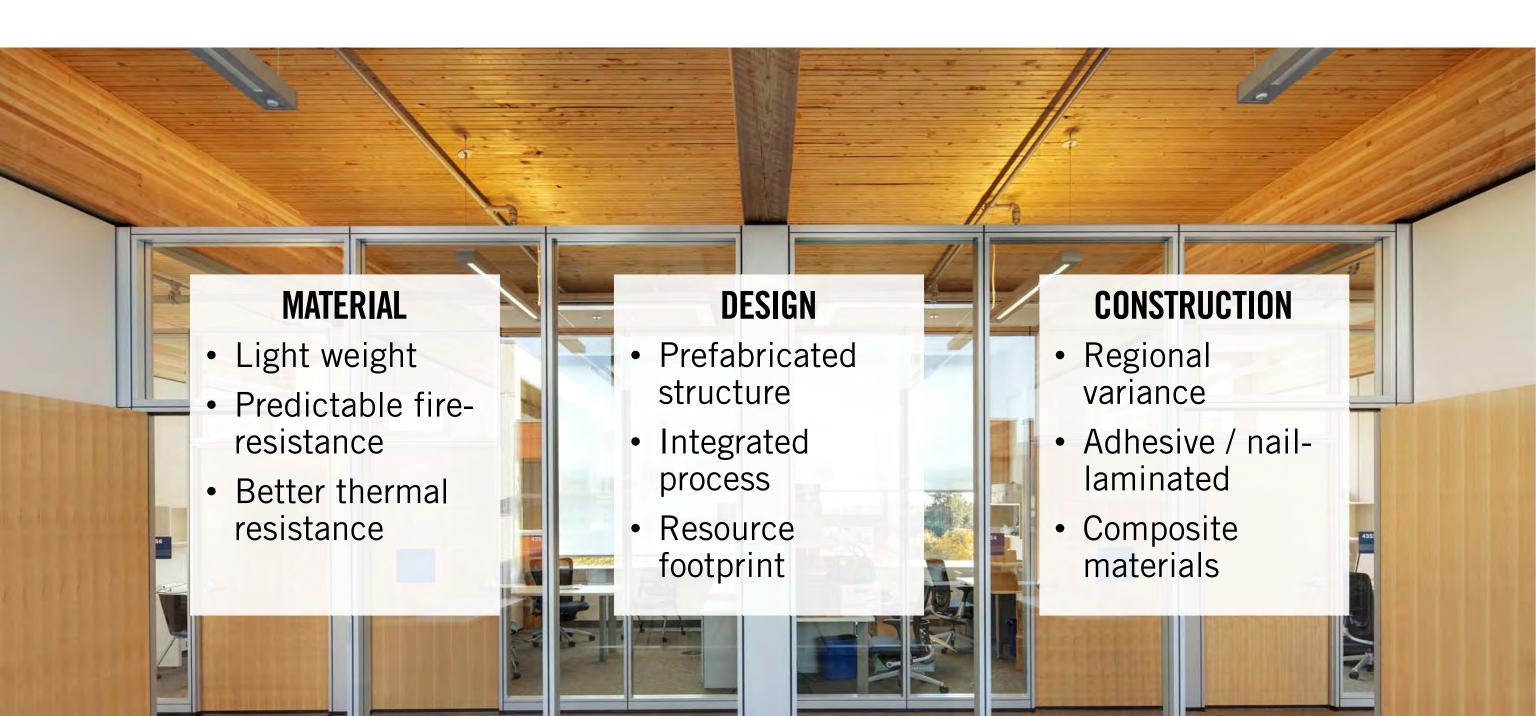
NLT NAIL LAMINATED TIMBER **GLULAM**GLUE
LAMINATED
TIMBER

LVL LAMINATED VENEER LUMBER LSL
LAMINATED
STRAND
LUMBER

PSL
PARALLEL
STRAND
LUMBER

FUTURE INNOVATIONS

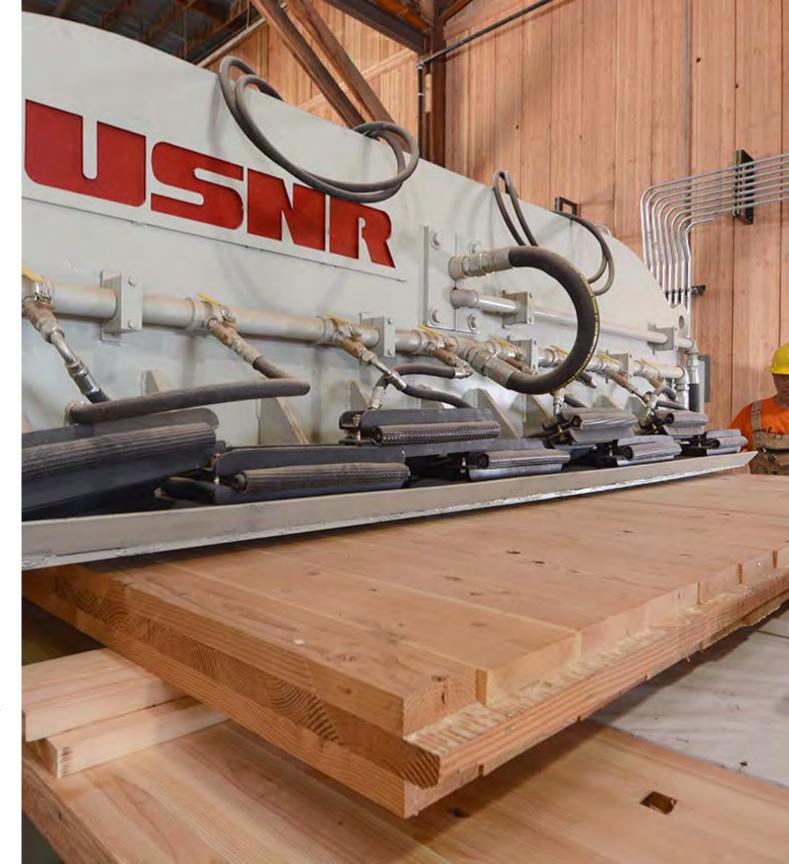
#### GENERAL CHARACTERISTICS



#### **FABRICATING**

HOW IS THE WOOD PROCESSED?

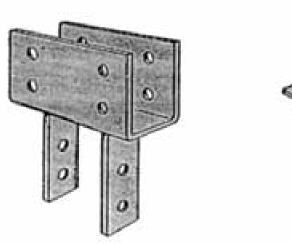
- Prefabrication reduces onsite work
- North American adhesives are formaldehyde free
- Factory checked for quality, strength
- Service openings factory cut
- Integrated design process
- Support local manufacturing economy through value-added products

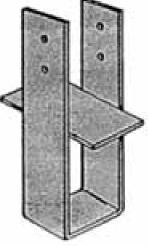


#### **CONNECTING** — THE PAST

- Exposed connections
- Reduced quality control
- Require fire proofing for noncombustible construction
- Poor fit



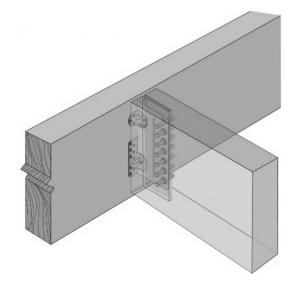




#### **CONNECTING — PRESENT & FUTURE**

- Concealed eliminates need for fire proofing
- Strong and reliable
- Often proprietary can be more costly than custom steel connectors
- Continued innovation

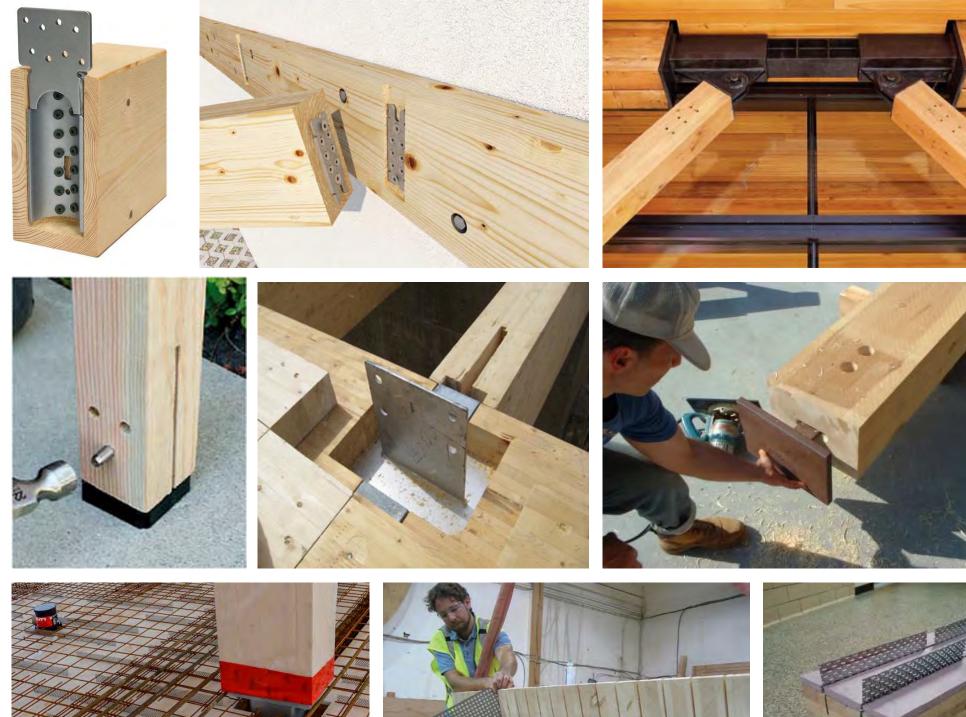






### **CONNECTORS**

- **Beam-column**
- **Column-floor**
- Deck









# wood is a viable option



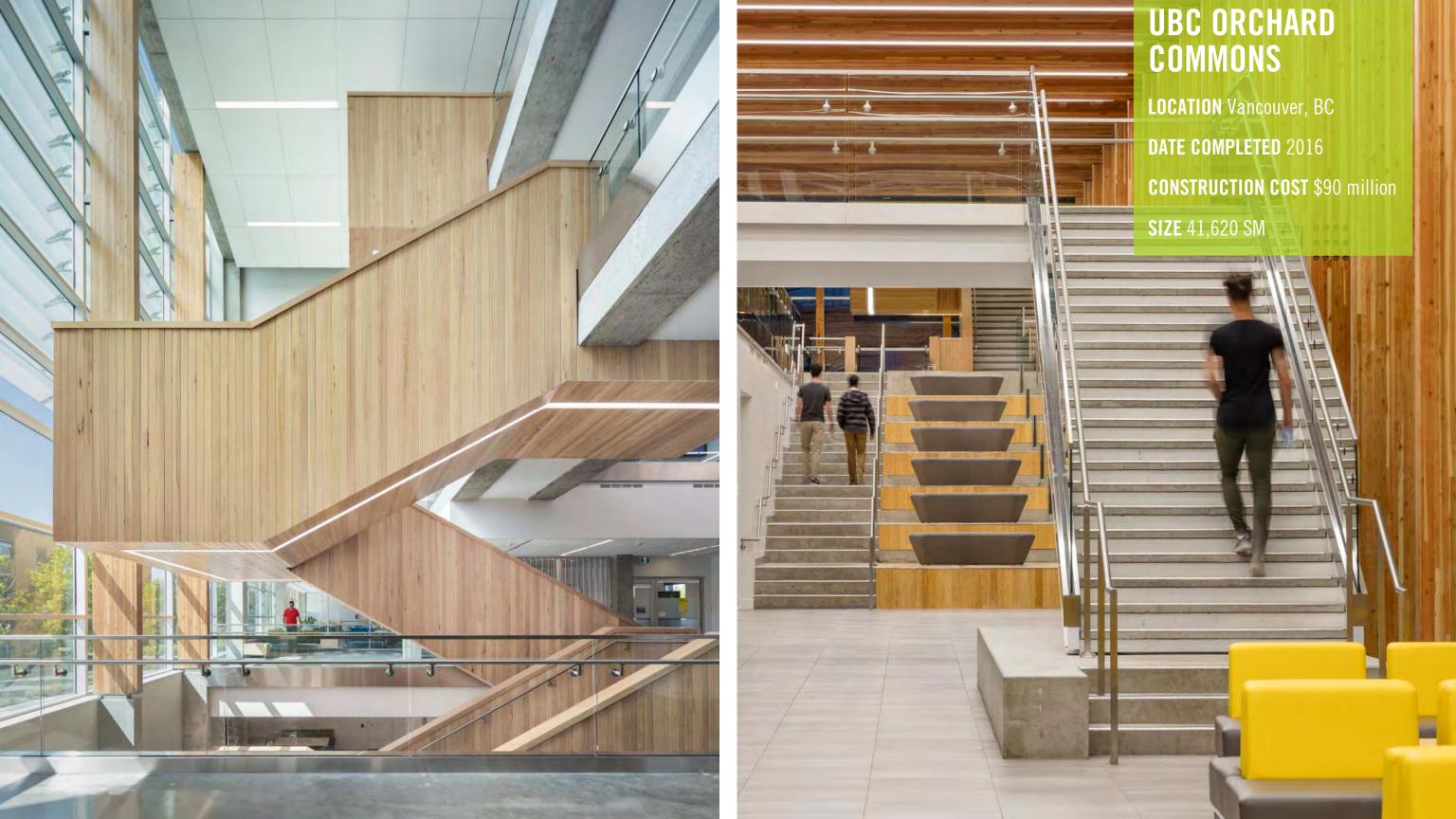








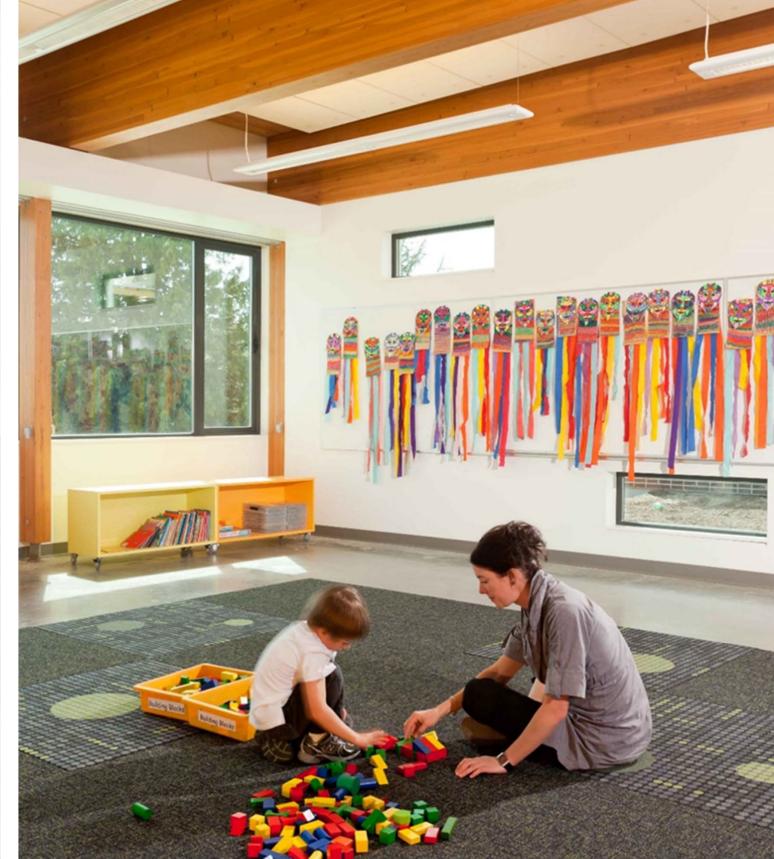














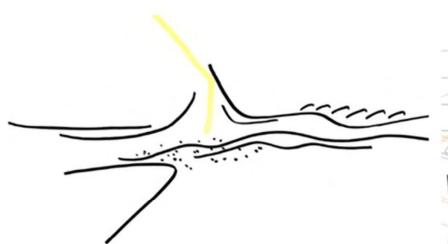


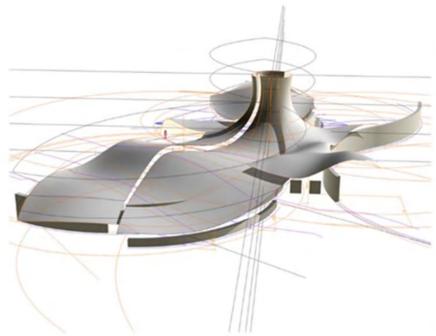


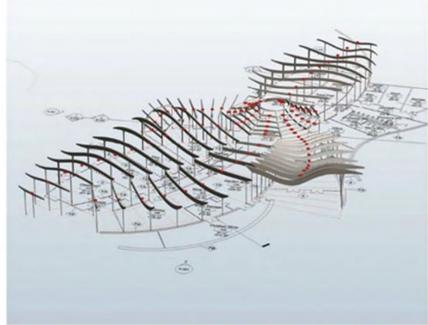
#### Construction Innovation

Developed with Rhino and Revit software, the roof includes more than 50 different pre-fabricated roof panels composed of unique curved glulam beams.

#### VANDUSEN BOTANICAL GARDEN VISITOR CENTRE





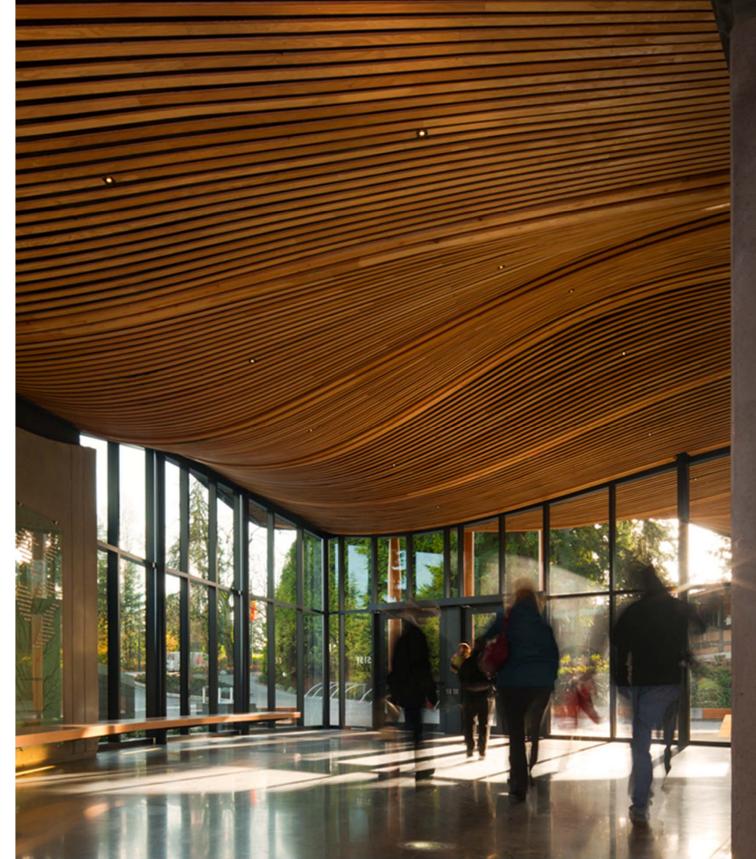










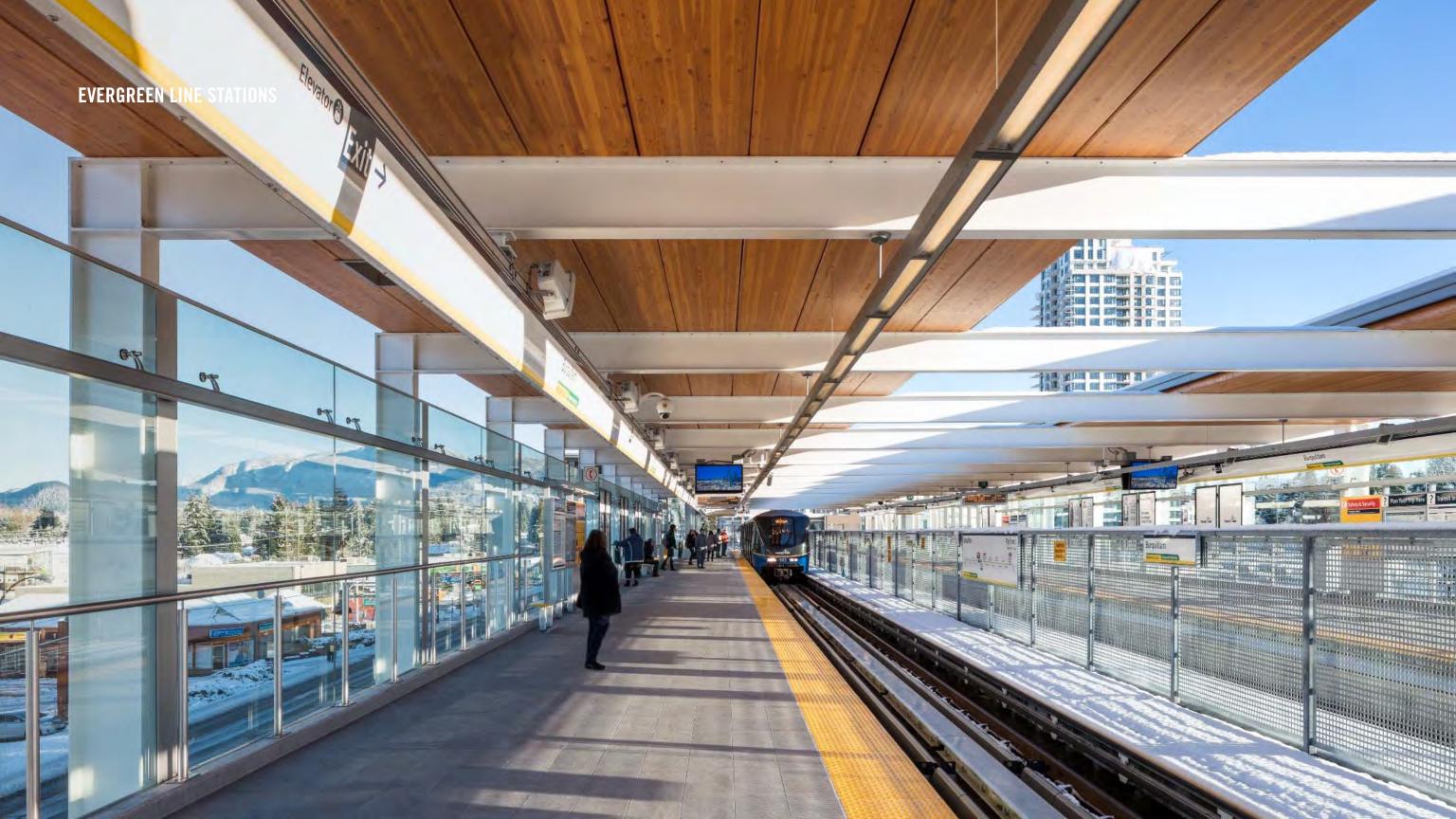




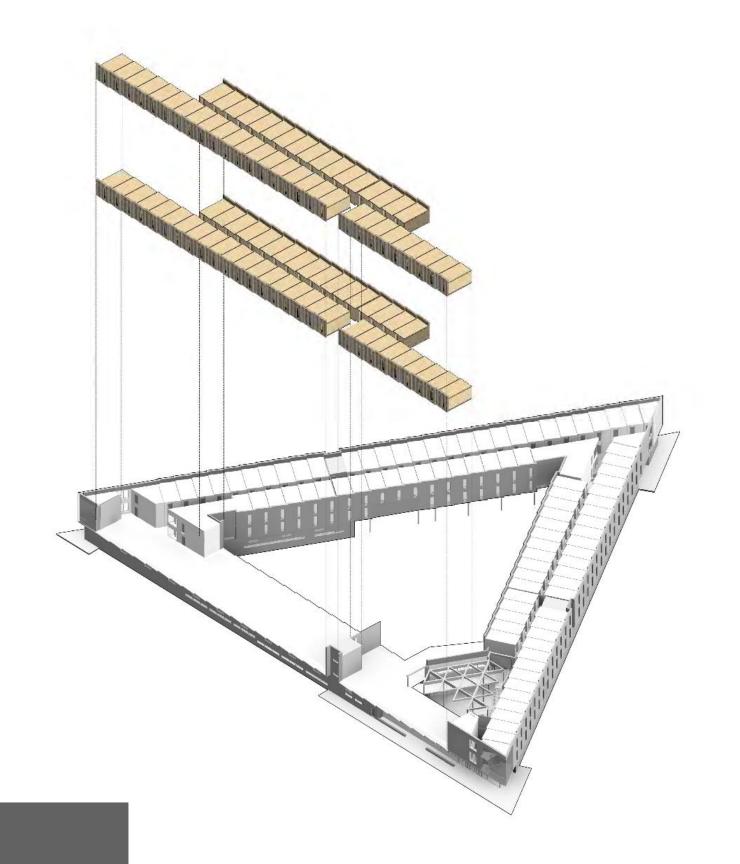


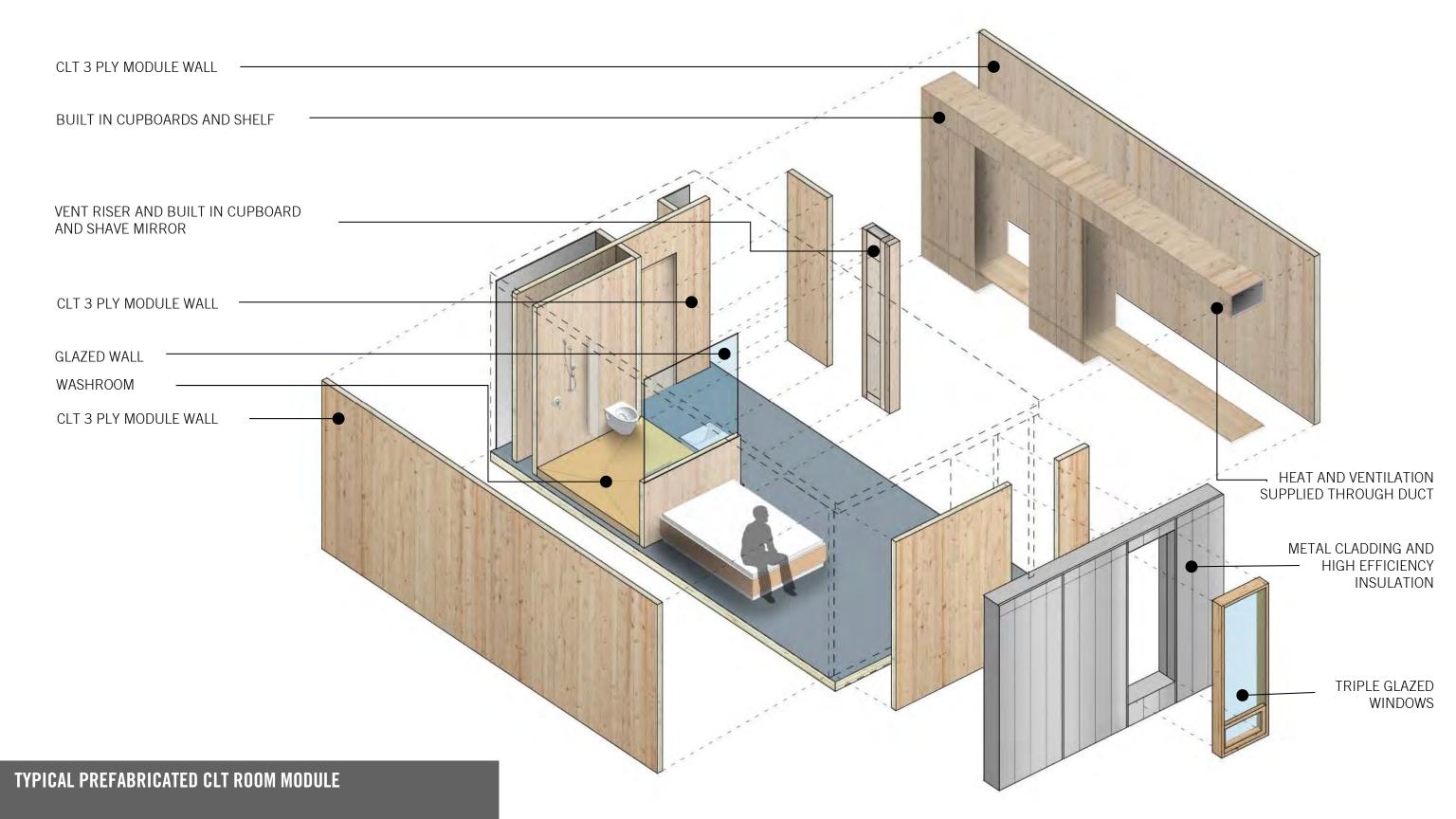


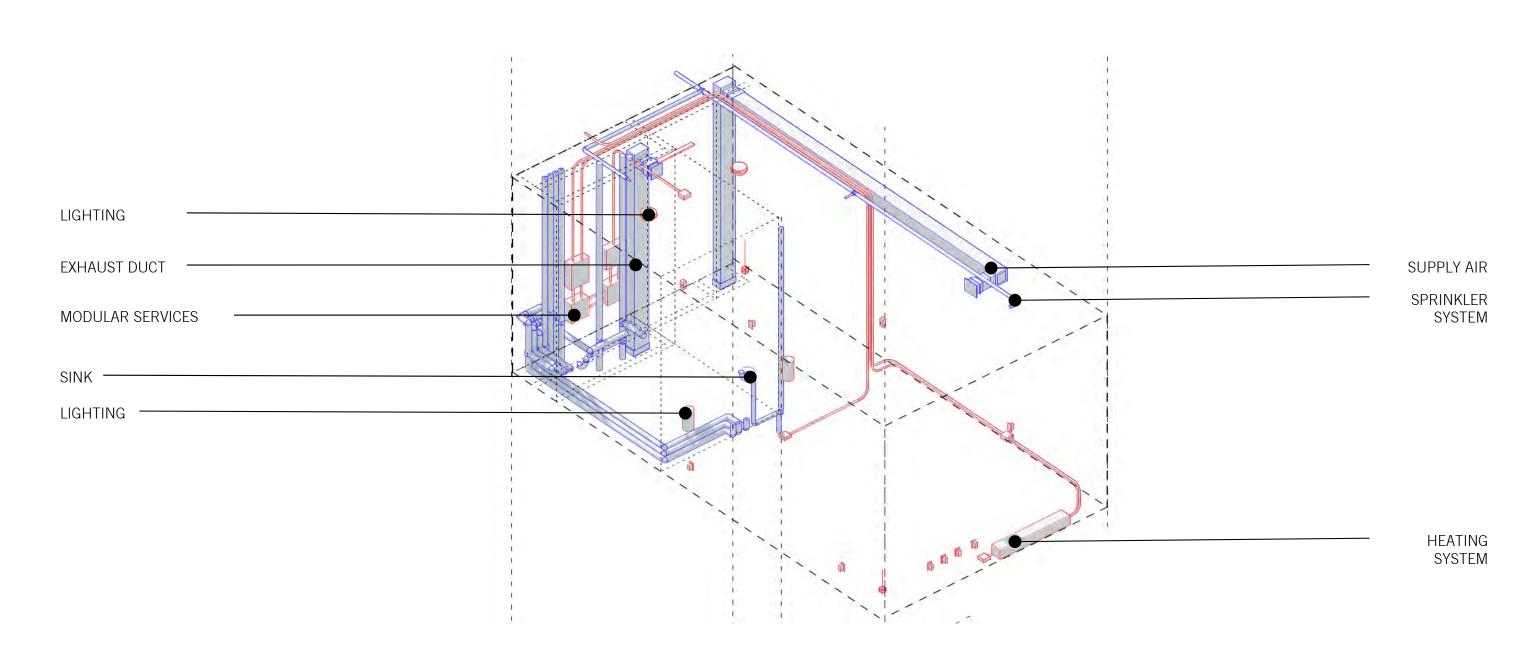














**ON-SITE ASSEMBLY** 

**NEXEN** 











