



UBC MacLeod Engineering Building

High-performance Envelope – Endless Expressive Opportunities

AMERICAN CONCRETE INSTITUTE

31_10_2023



Teeple Architects ^{INC.}

PROSCENIUM
ARCHITECTURE + INTERIORS INC.

Collaboration by

Architects | Teeple Architects in association with Proscenium Architecture + Interiors

Owner | The University of British Columbia

Structural Engineer | Weiler Smith Bowers Consulting Engineers

CM / Concrete | Heatherbrae Builders

Pre-Cast | Con-Force Structures

UBC MacLeod Building

History & condition

- Dept of Electrical & Computer Engineering
- 1963 construction
- High-quality international modernism
- No seismic consideration
- Significant thermal bridges



UBC MacLeod Building Comprehensive Renewal

- Resilience-focused seismic upgrade
- New envelope + mechanical, electrical systems
- New-construction level sustainability
- Full interior retrofit
- Deferred maintenance



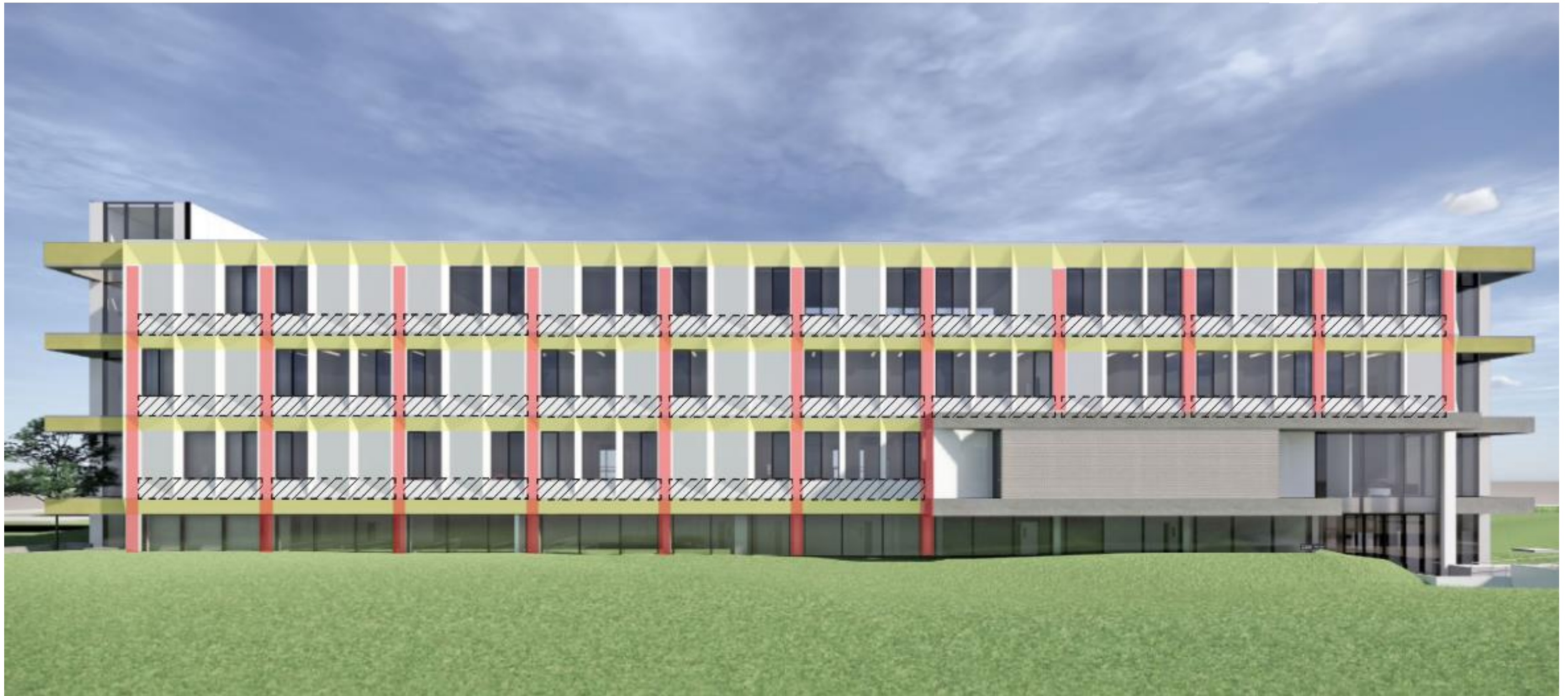
Precast Expression

Rhythm of the Existing Structure

Vertical Column Lines

Horizontal Slabs

Infill Brick Panels





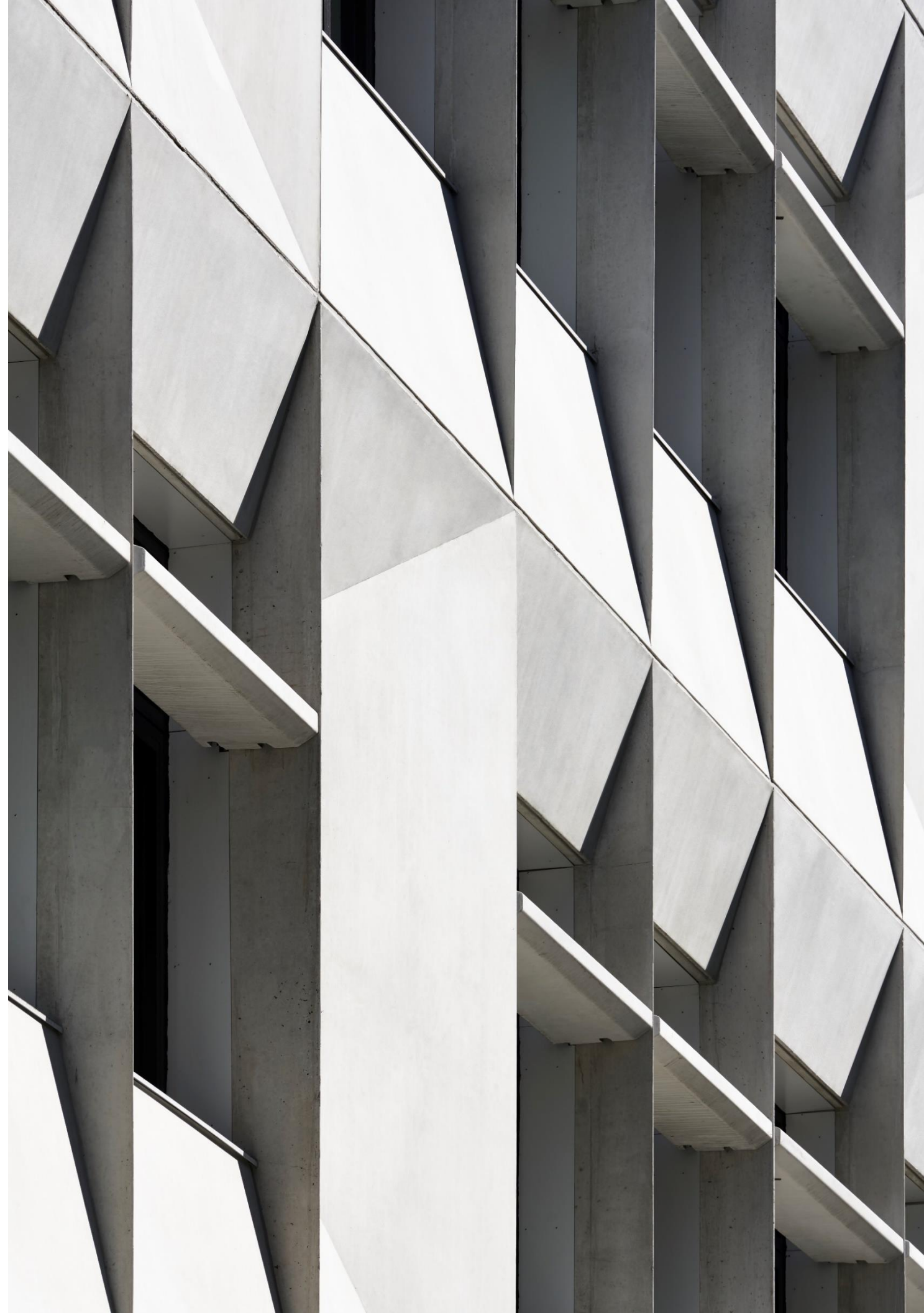
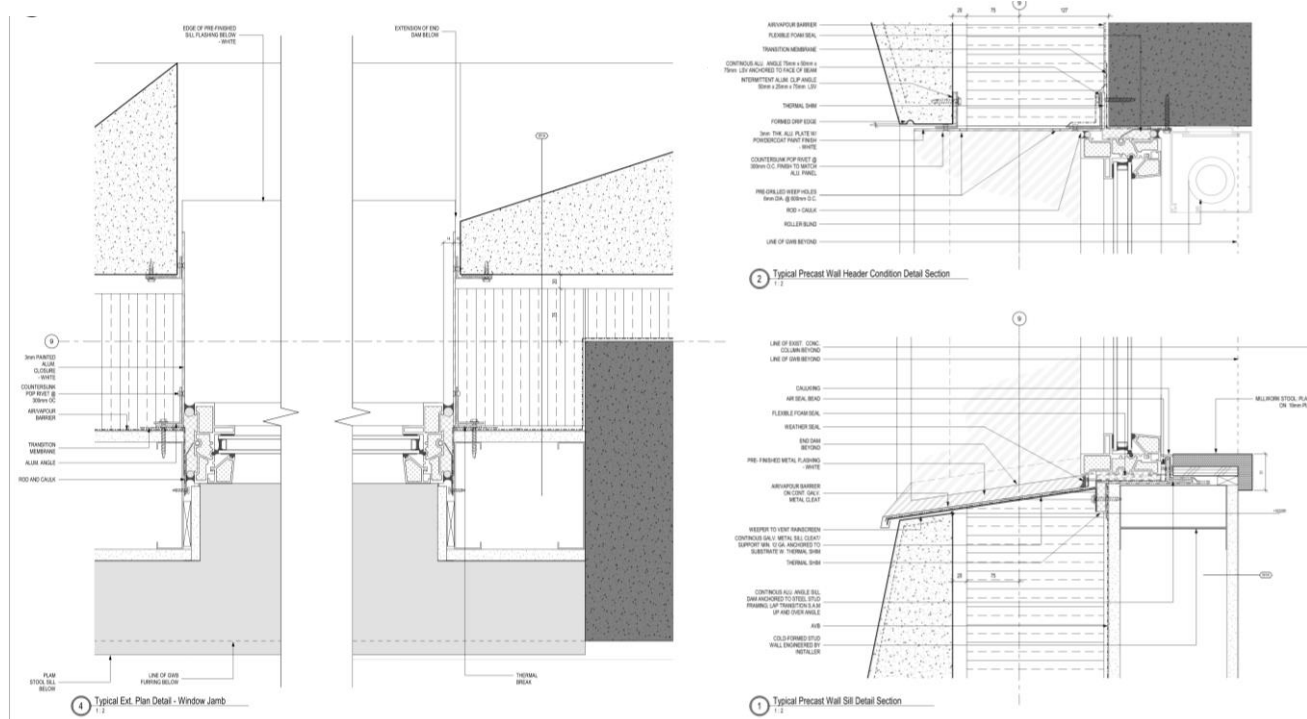
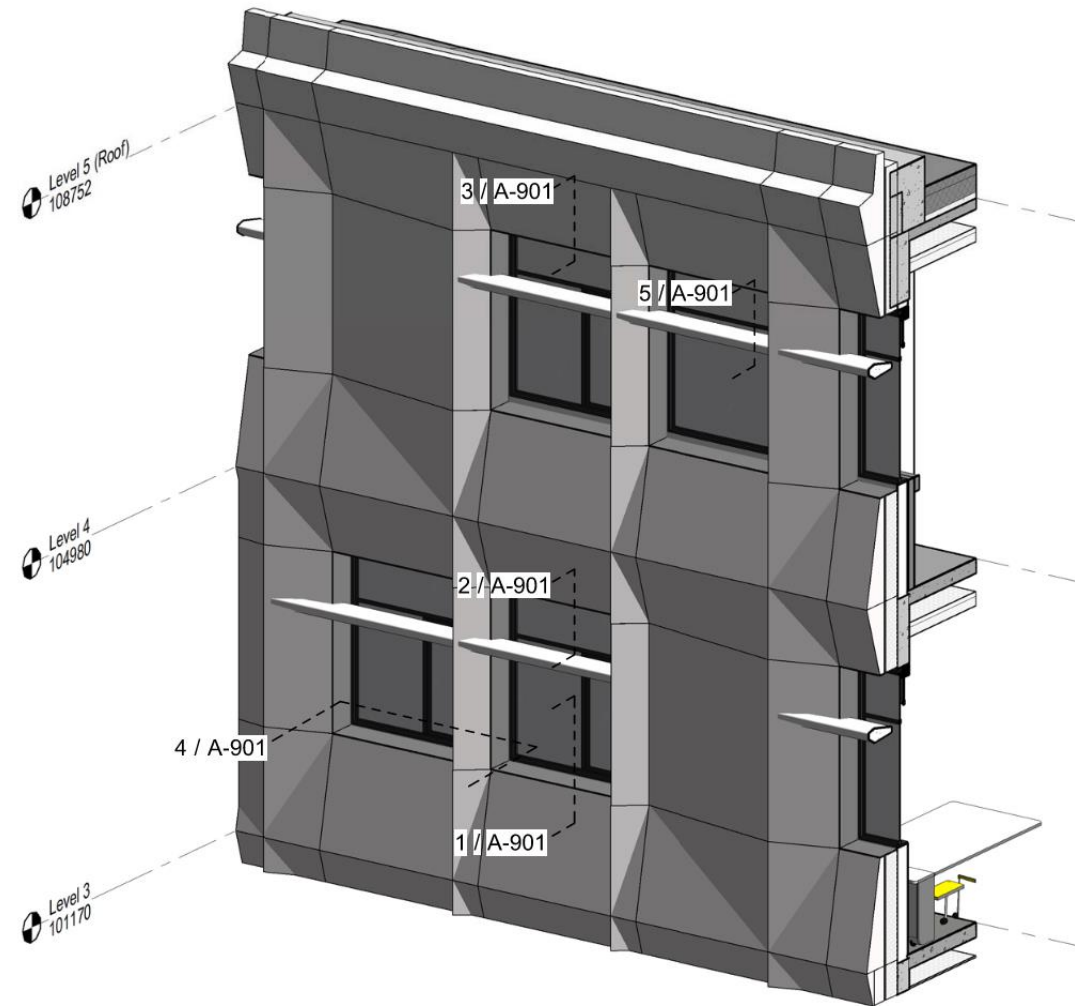
MacLeod Building
Account & Computer Engineering
2356 MacLeod Hall

2356 MacLeod Hall

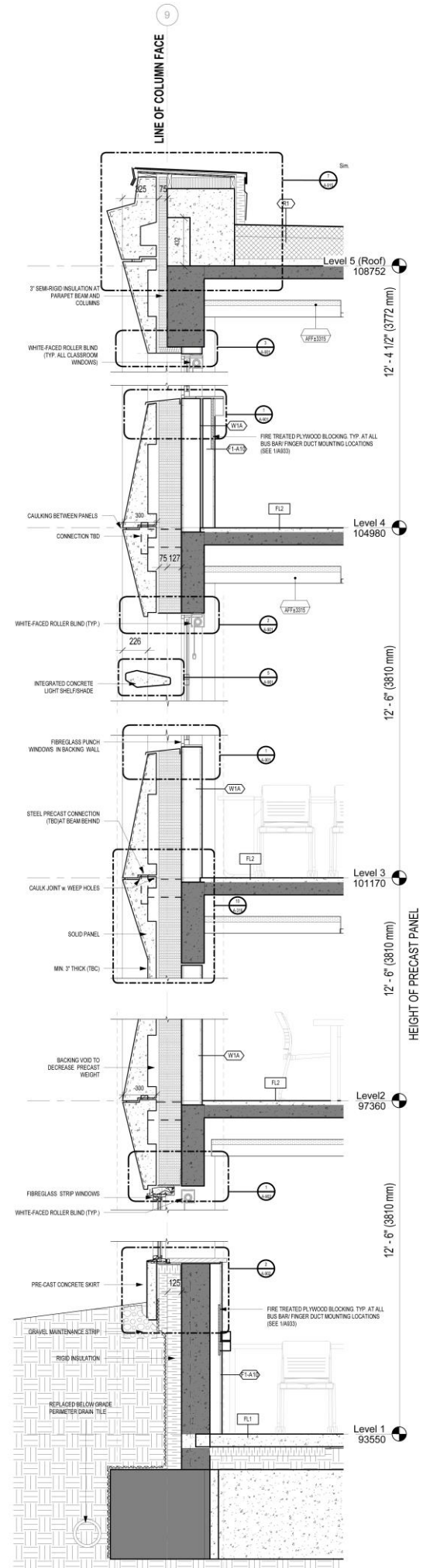
MacLeod Building
Account & Computer Engineering
2356 MacLeod Hall



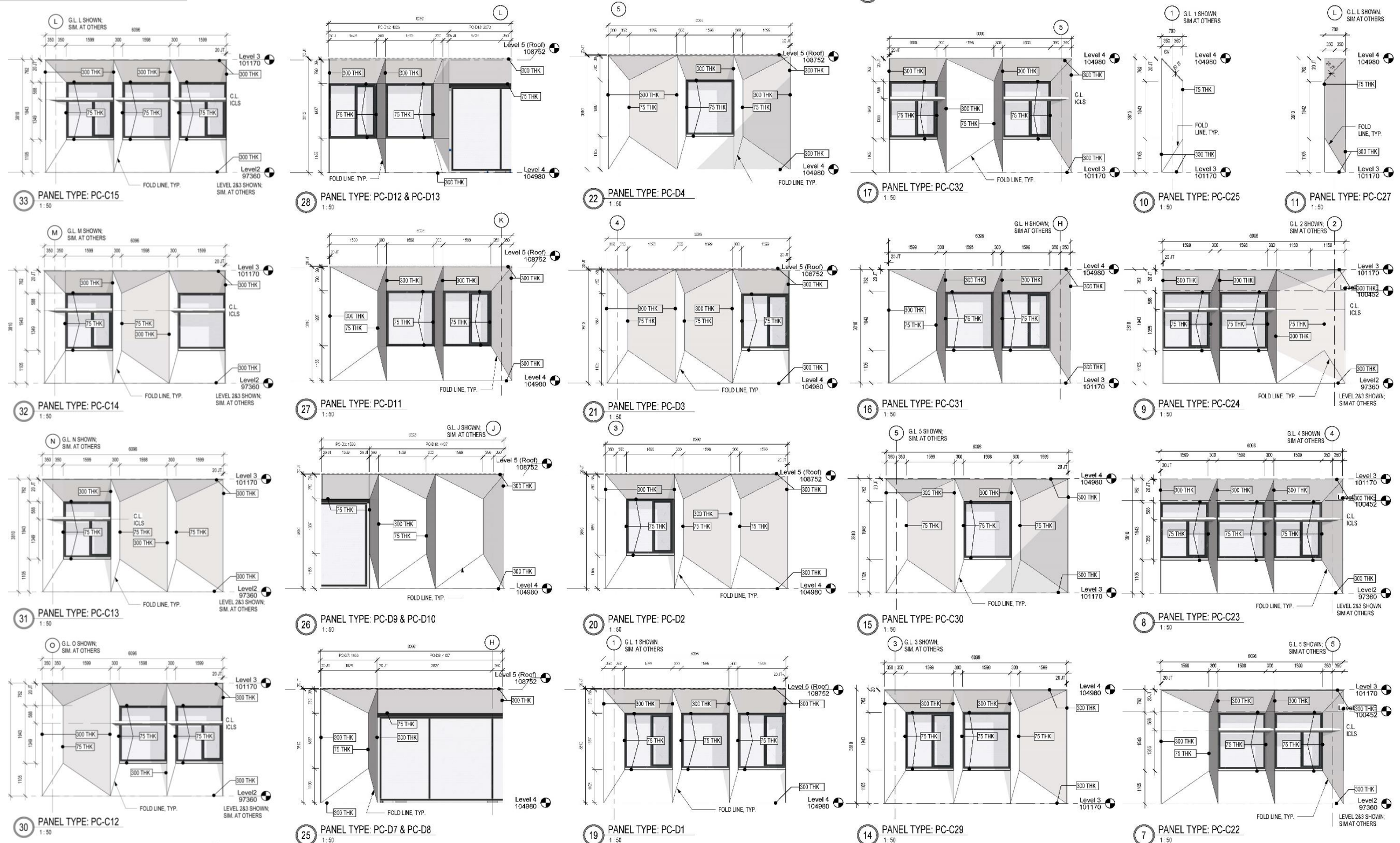
Precast Approach Detailing







Precast Approach Modularity








Architect | Teeple Architects with Two Row Architect & Lowe Hammond Rowe Architects

Structural Engineer | Fast + Epp

CM | Chandos Construction

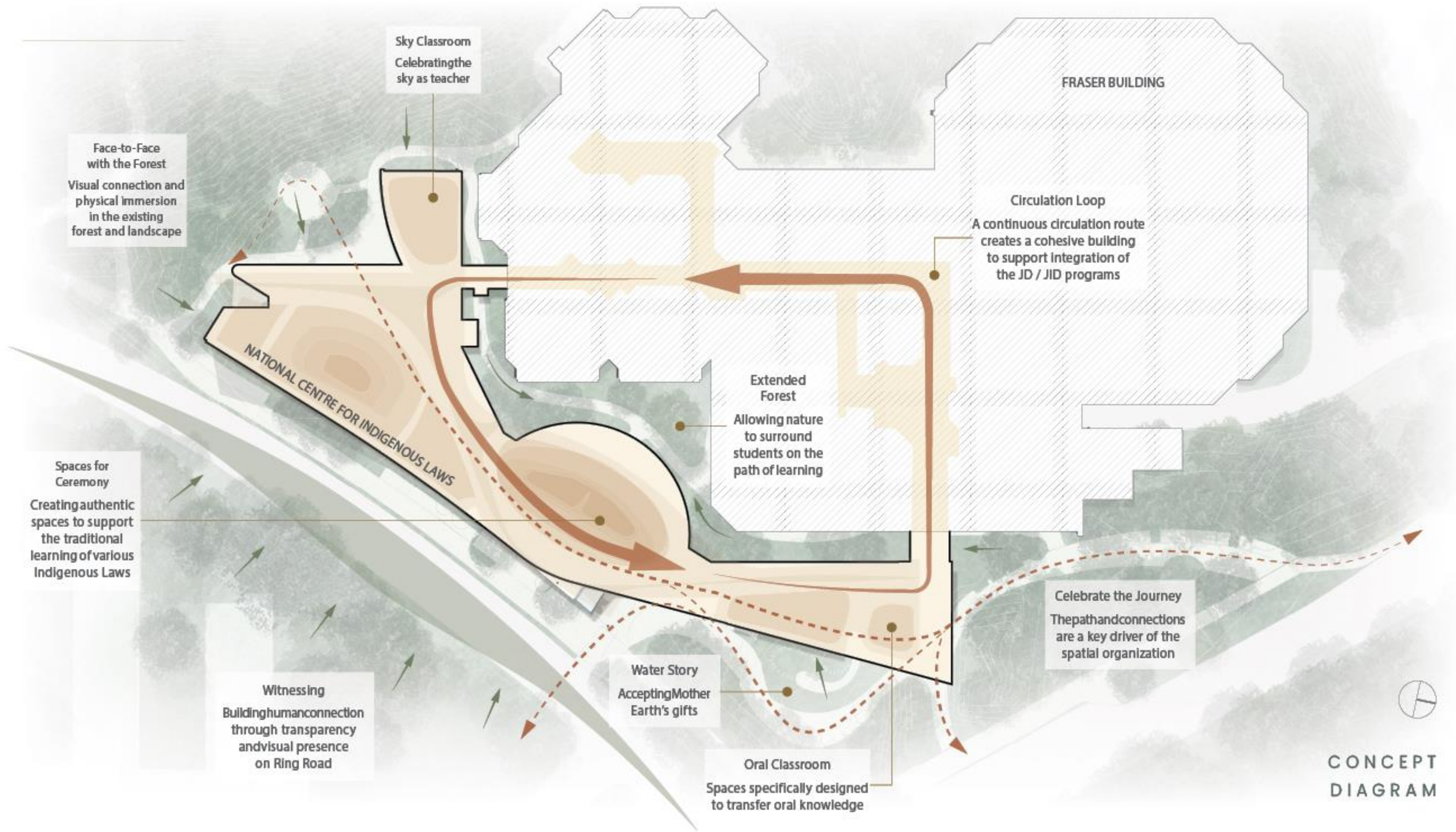
Concrete | Lane Construction

Precast | Surespan Structures



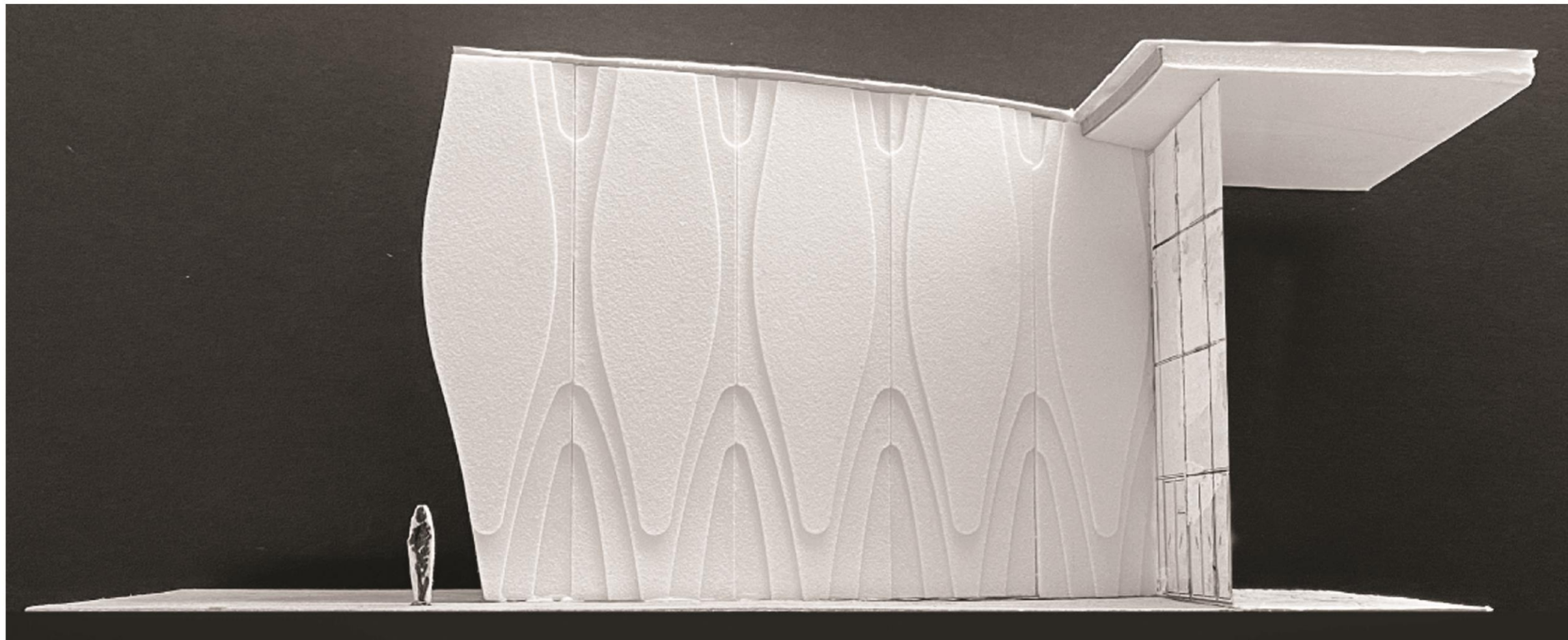
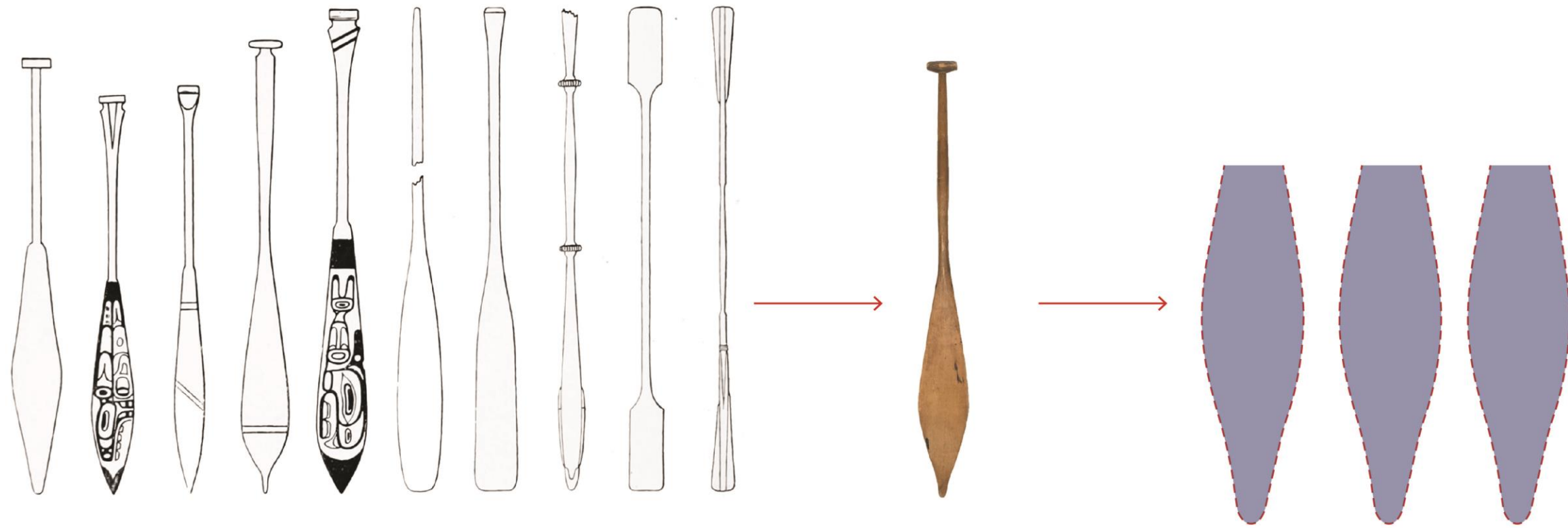
University of Victoria National Centre for Indigenous Laws





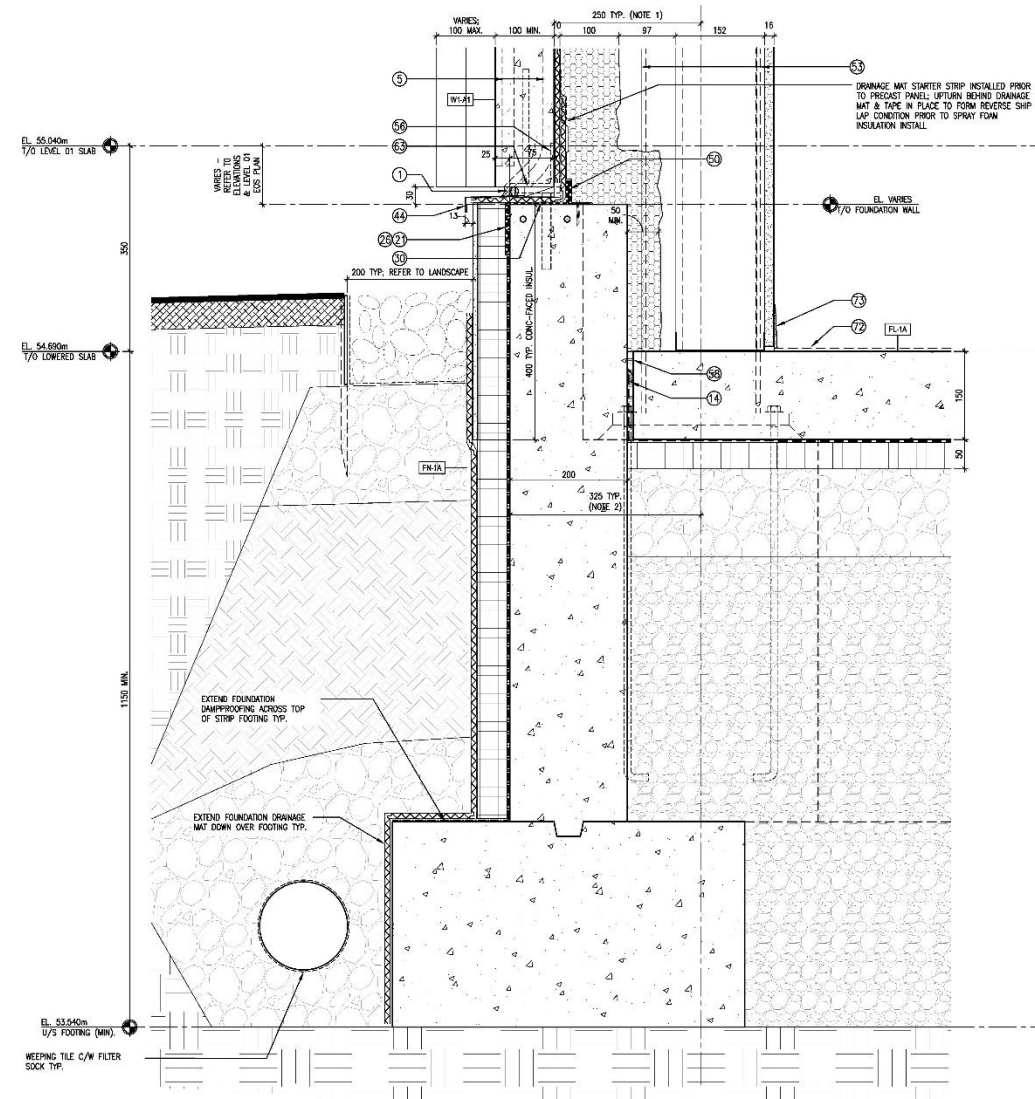
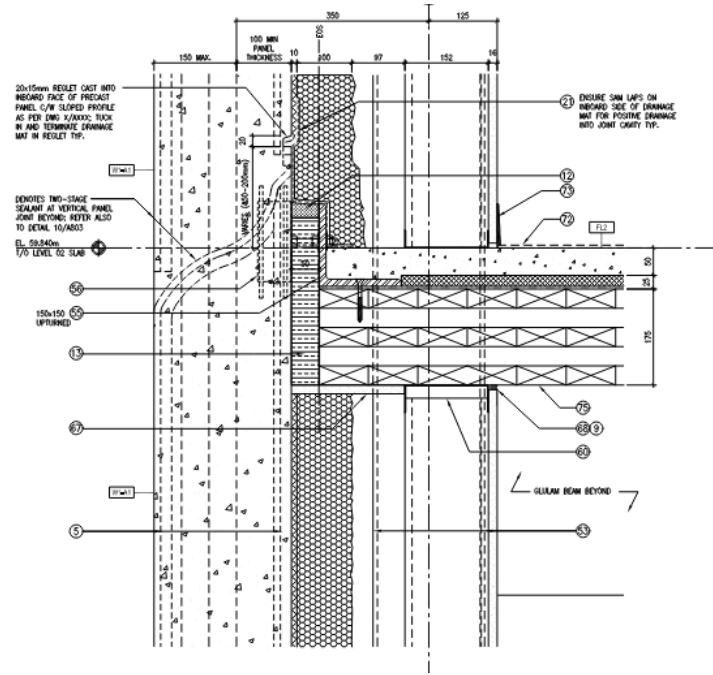
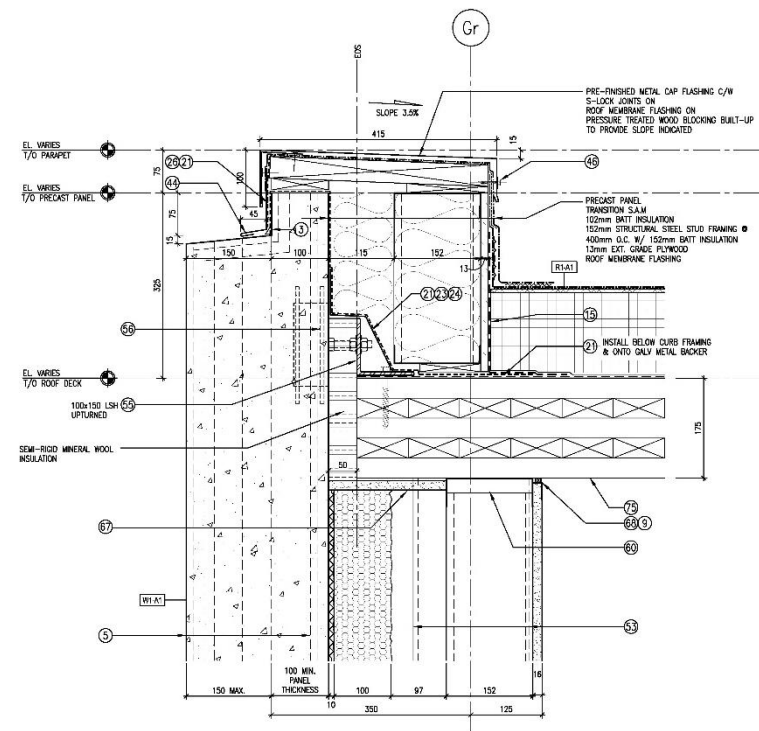
CONCEPT
DIAGRAM







Detailing



Morgan State University Calvin & Tina Tyler Hall

Architect | Teeple Architects with GWWO Architects

Structural Engineer | ReStl Designers Inc.

Builder | Barton Malow

Concrete | Lane Construction

Precast | Universal Concrete Products







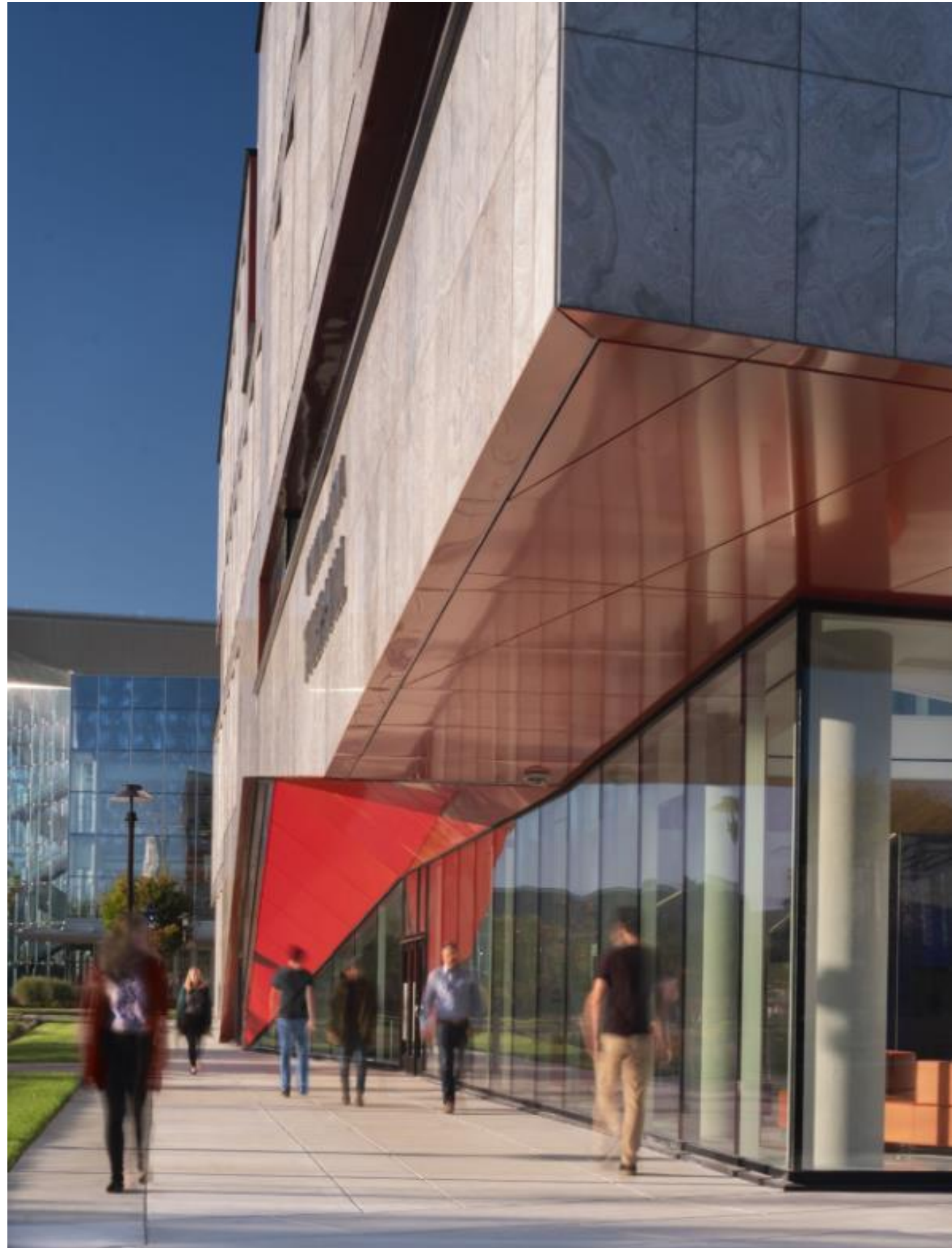




CALVIN and TINA
TYLER HALL

MOR

BUS
STOP ONLY









LIEBHERR

Garzon
McDevitt
J.Z.N.

N

TRUCKNEE



Thank you!

Questions?