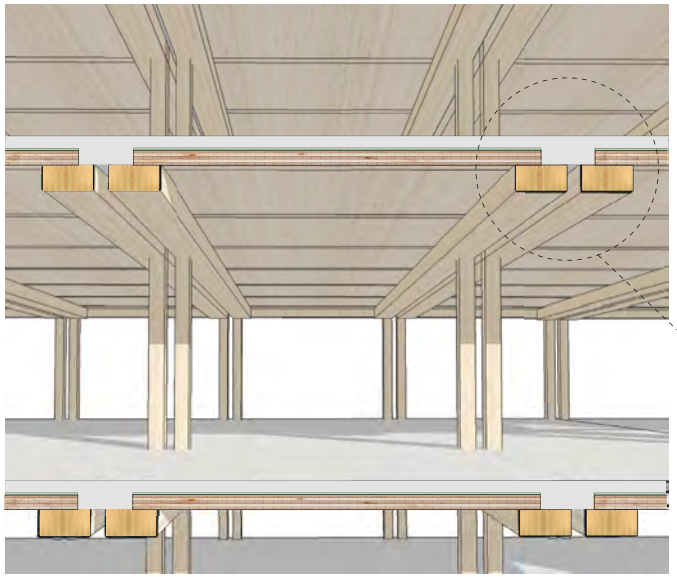
NEW ADVANCED WOOD PROCESSING LABORATORY:
STRUCTURAL HIGH BAY, MANUFACTURING **18,000 SF**

NEW ACADEMIC WING:
CENTRAL ATRIUM, INNOVATIVE CLASSROOMS, LABORATORIES + STUDENT SPACES
80,000 SF

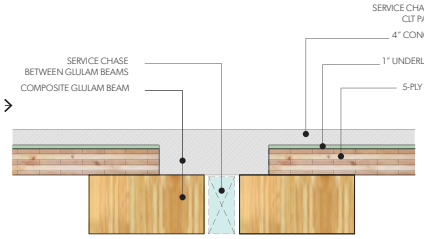
EXPANDED ARBORETUM:
INTEGRAL WATER MANAGEMENT SYSTEMS, EXTERIOR CLASSROOM + GATHERING SPACES

STRUCTURAL TYPOLOGIES

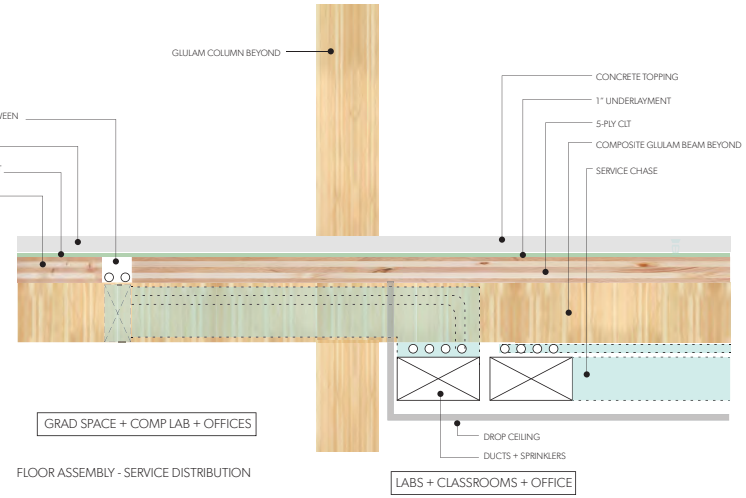
PEAVY ACADEDMIC BAR



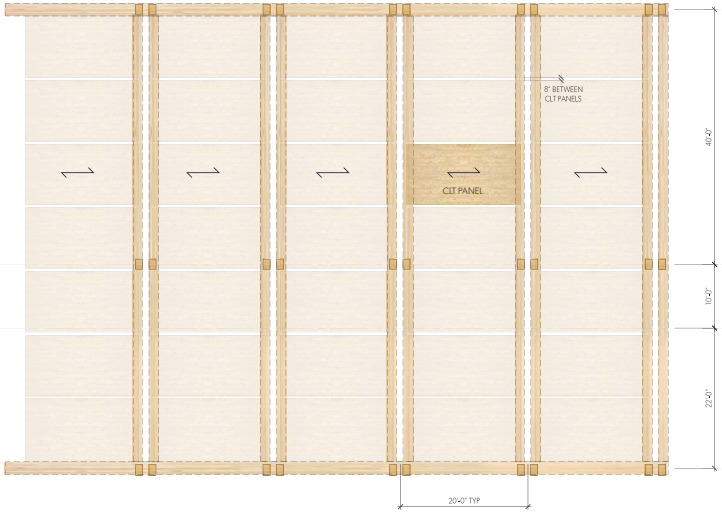
STRUCTURAL ASSEMBLY - SECTION



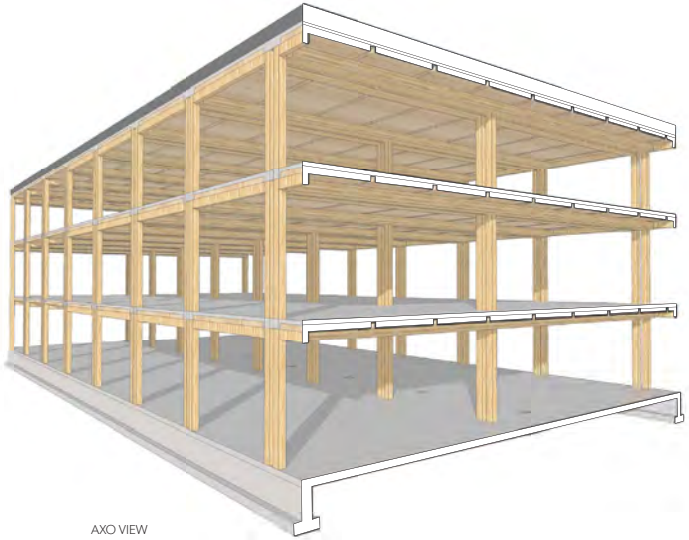
FLOOR ASSEMBLY



FLOOR ASSEMBLY - SERVICE DISTRIBUTION



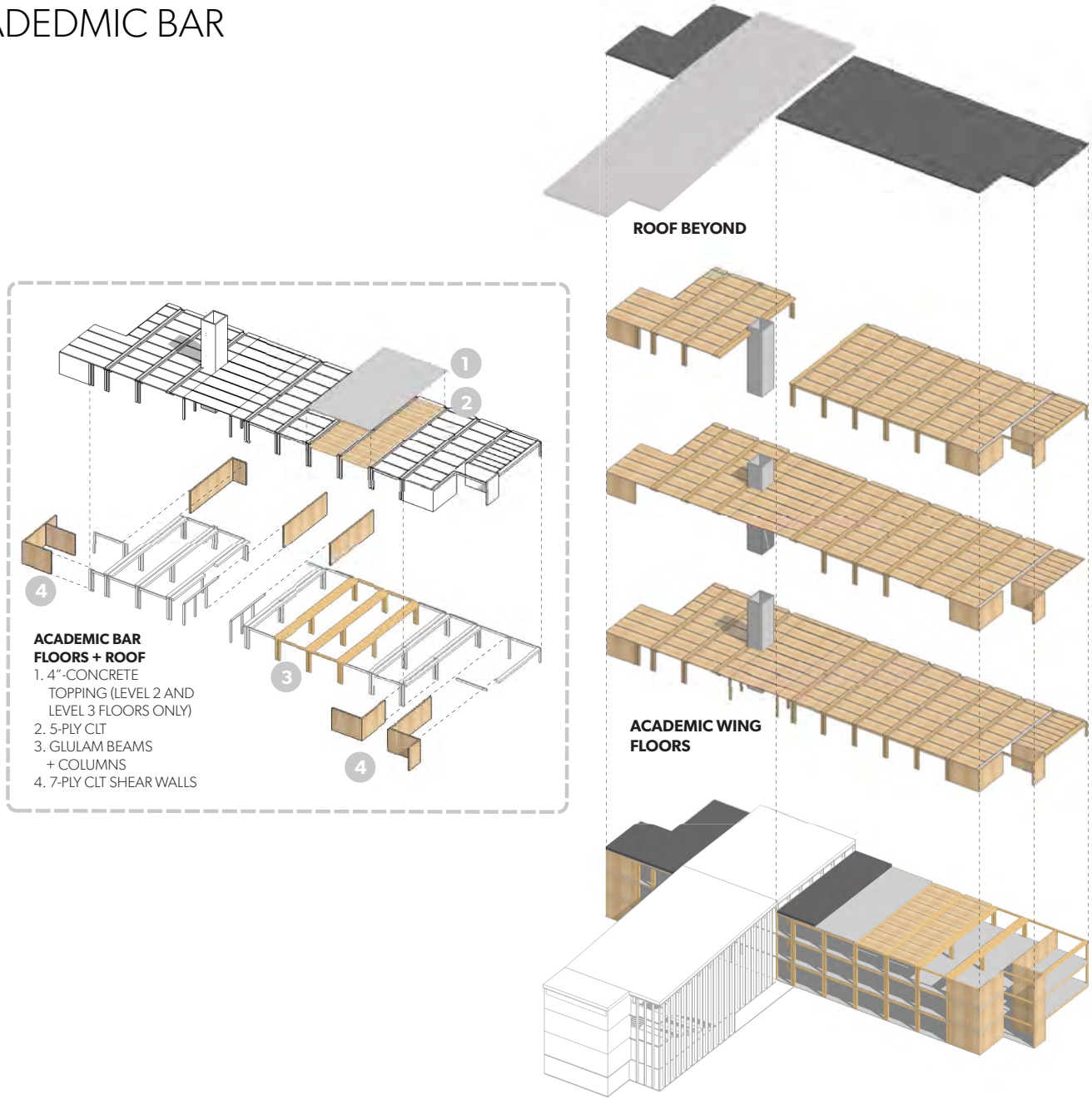
STRUCTURAL ASSEMBLY - PLAN



AXO VIEW

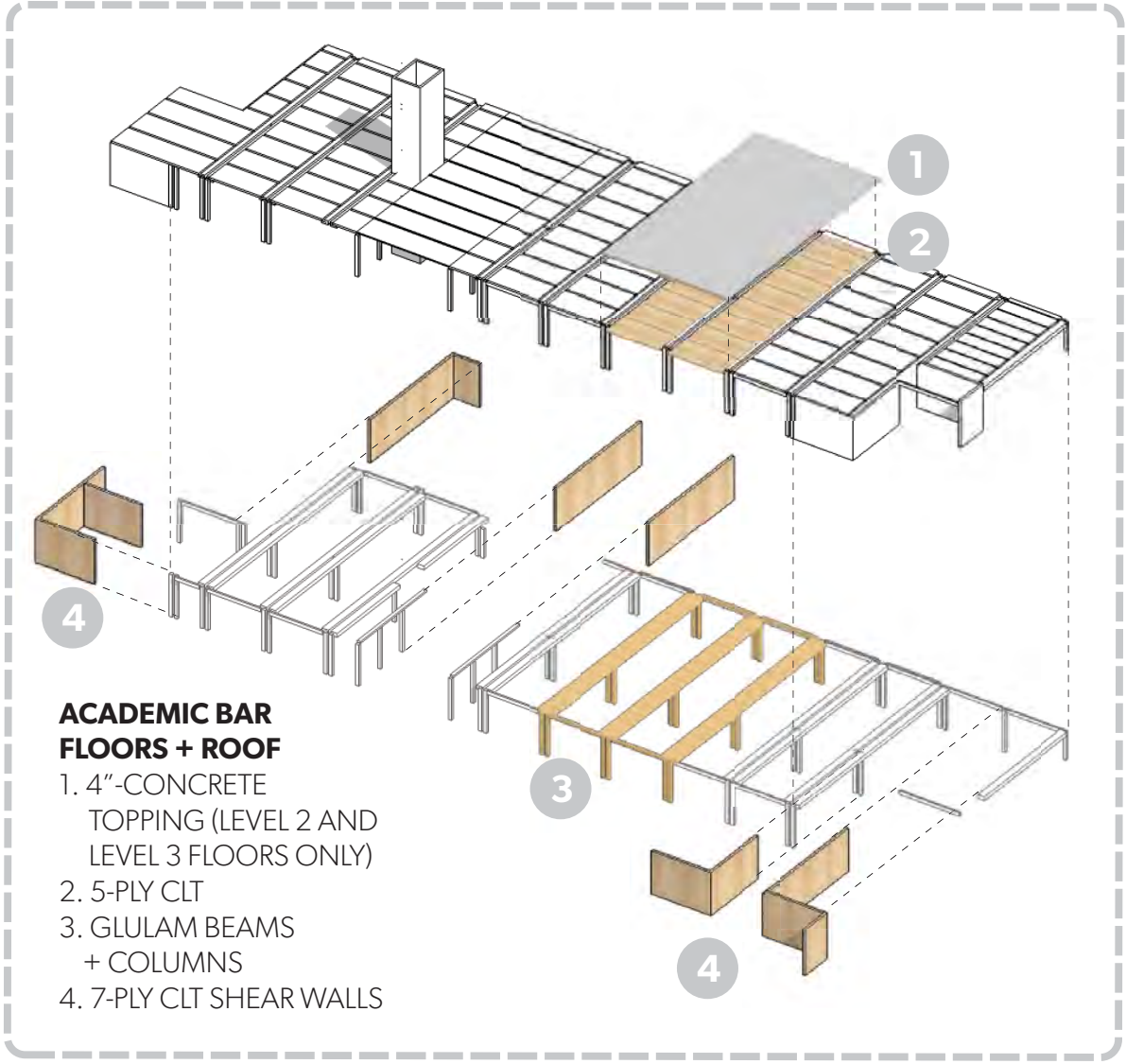
STRUCTURAL TYPOLOGIES

PEAVY ACADEDMIC BAR



STRUCTURAL TYPOLOGIES

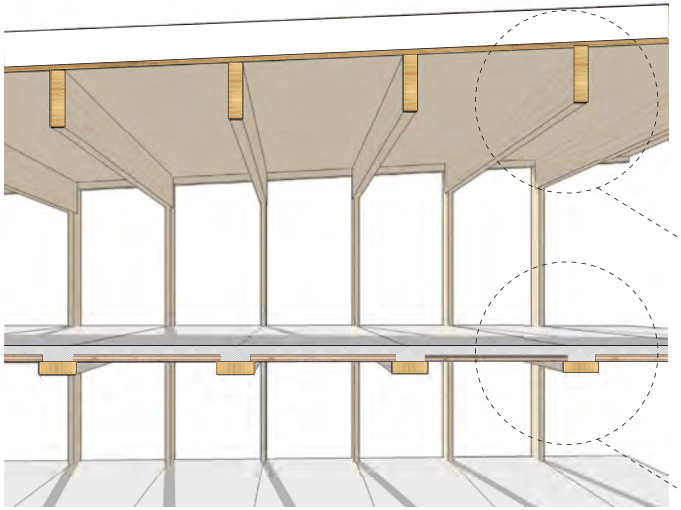
PEAVY ACADEDMIC BAR



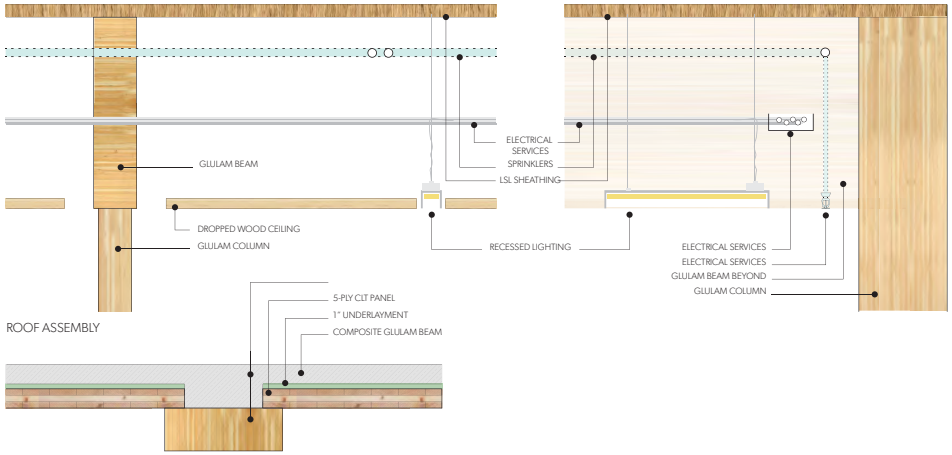
ACADEMIC BAR
FLOORS + ROOF

1. 4"-CONCRETE TOPPING (LEVEL 2 AND LEVEL 3 FLOORS ONLY)
2. 5-PLY CLT
3. GLULAM BEAMS + COLUMNS
4. 7-PLY CLT SHEAR WALLS

STRUCTURAL TYPOLOGIES
PEAVY ATRIUM

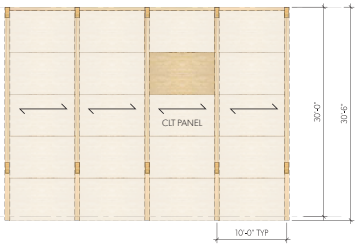


STRUCTURAL ASSEMBLY - SECTION

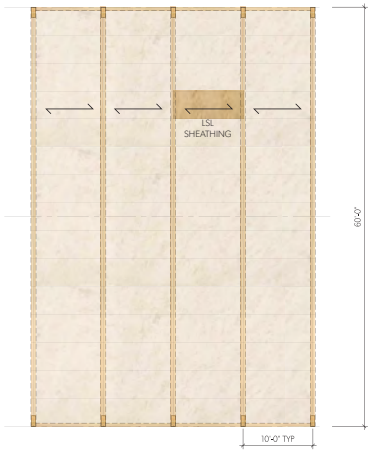


ROOF ASSEMBLY

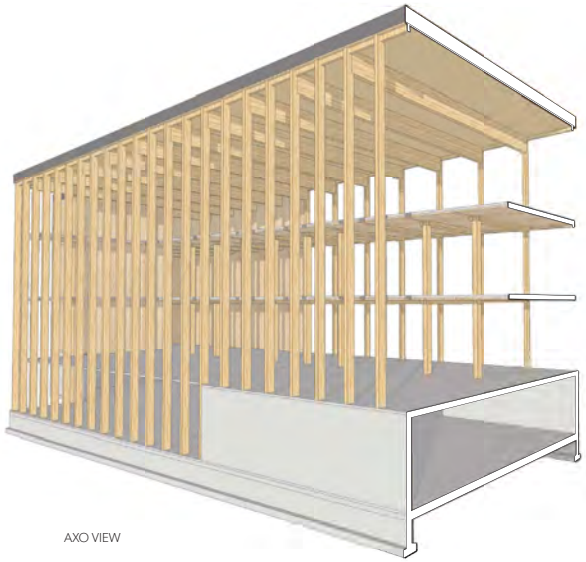
FLOOR ASSEMBLY



STRUCTURAL ASSEMBLY - ATRIUM FLOORS

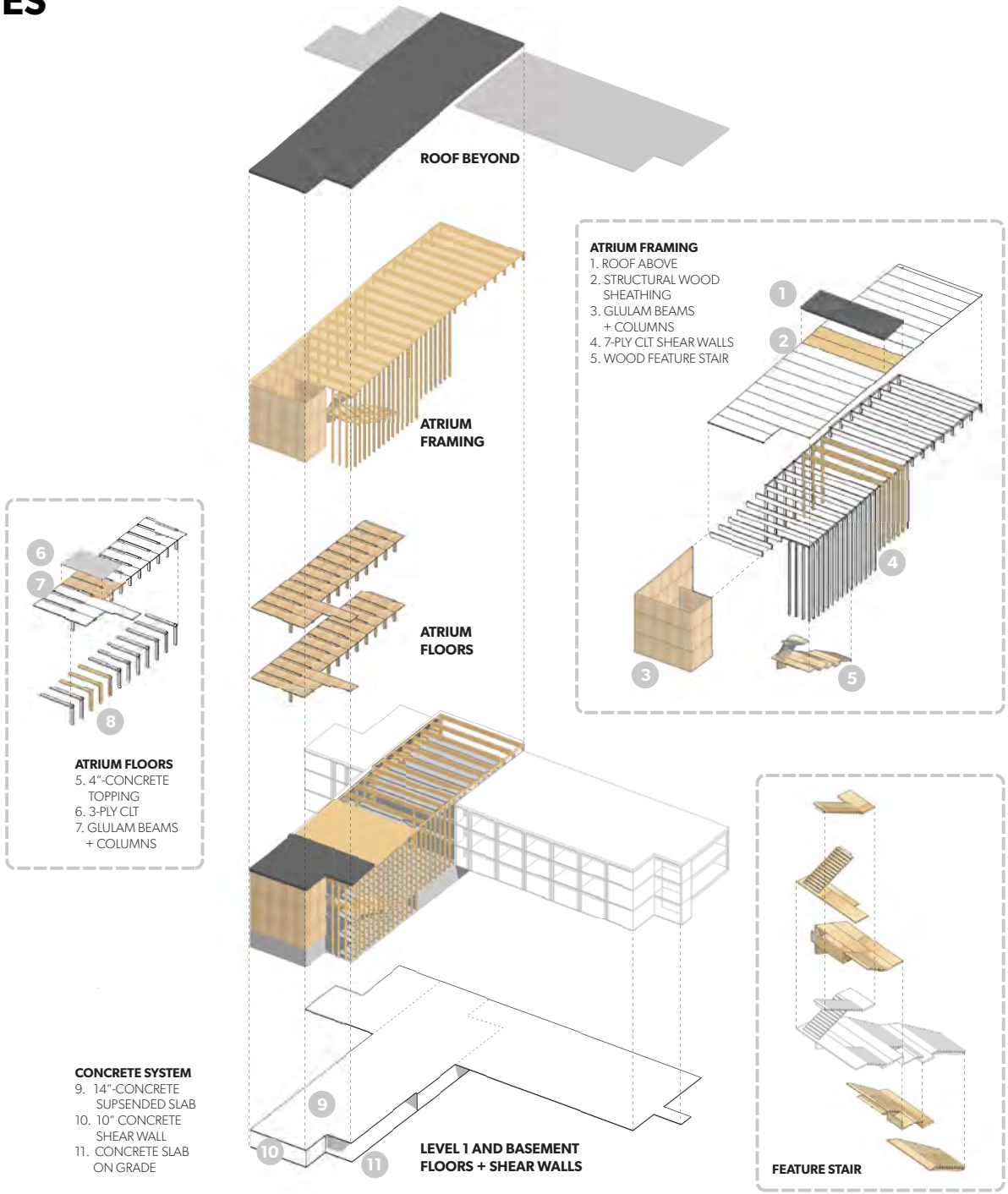


STRUCTURAL ASSEMBLY - ATRIUM ROOF



AXO VIEW

STRUCTURAL TYPOLOGIES
PEAVY ATRIUM

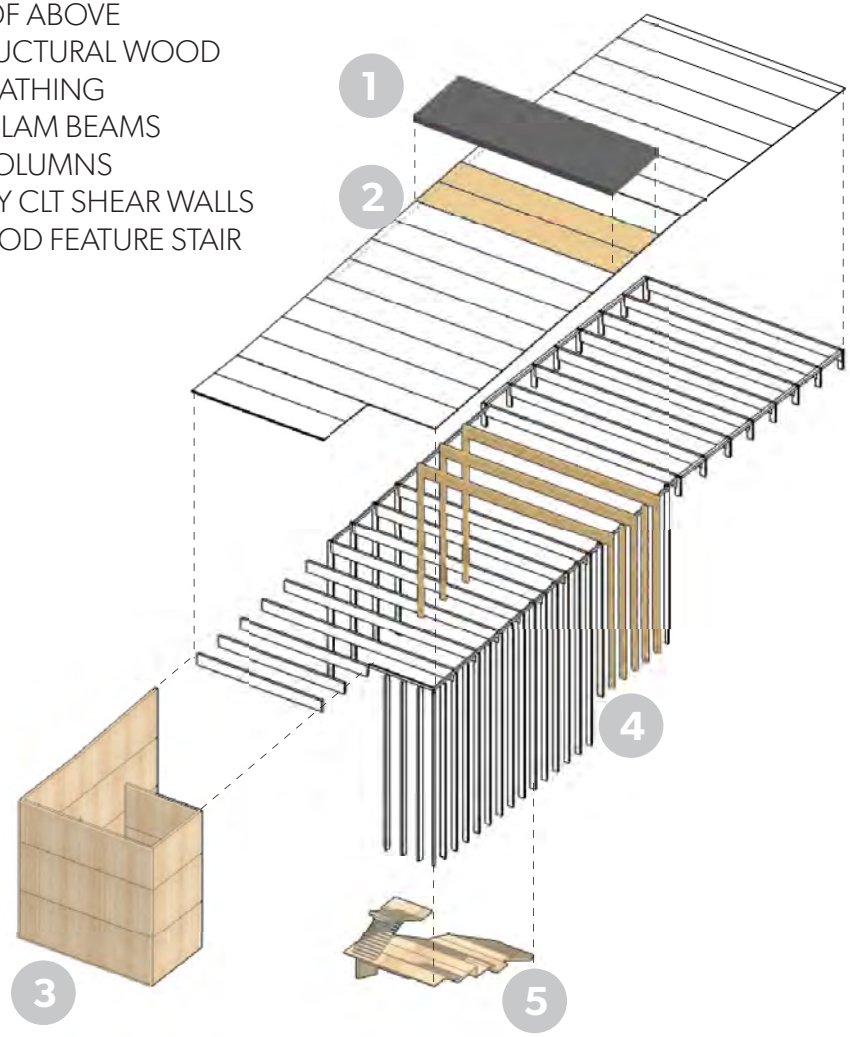


STRUCTURAL TYPOLOGIES

PEAVY ATRIUM

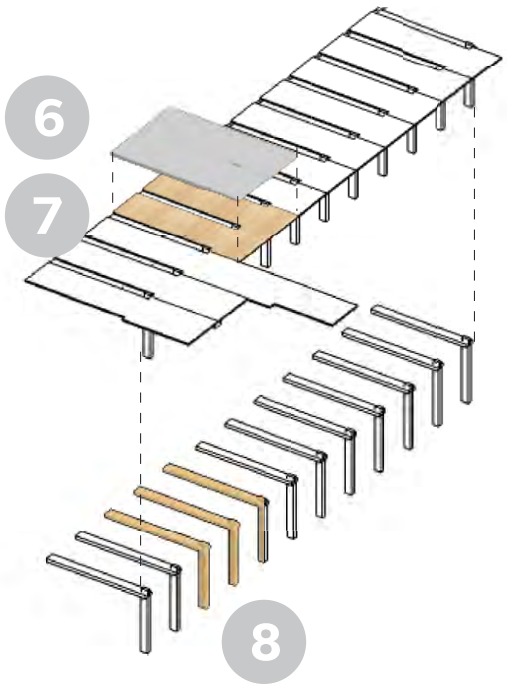
ATRIUM FRAMING

1. ROOF ABOVE
2. STRUCTURAL WOOD SHEATHING
3. GLULAM BEAMS + COLUMNS
4. 7-PLY CLT SHEAR WALLS
5. WOOD FEATURE STAIR



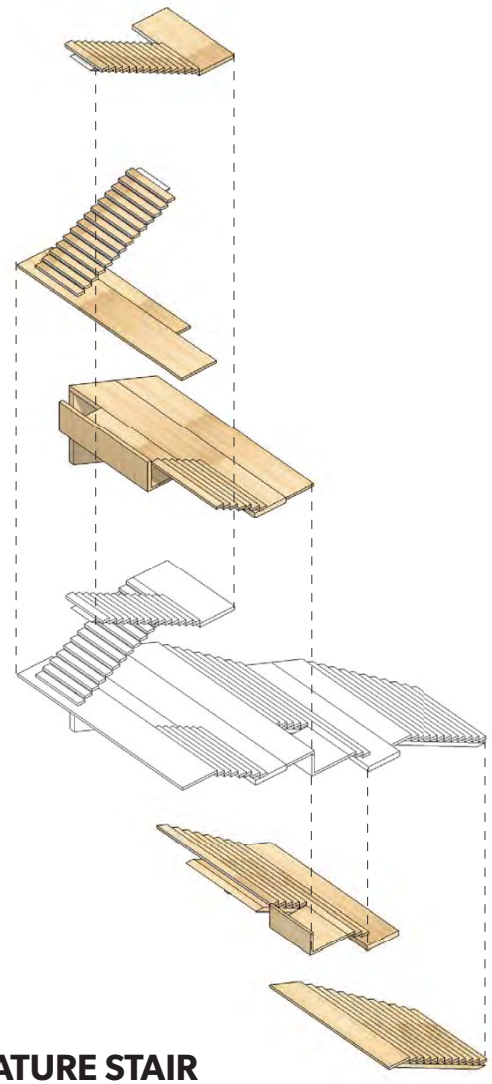
STRUCTURAL TYPOLOGIES

PEAVY ATRIUM



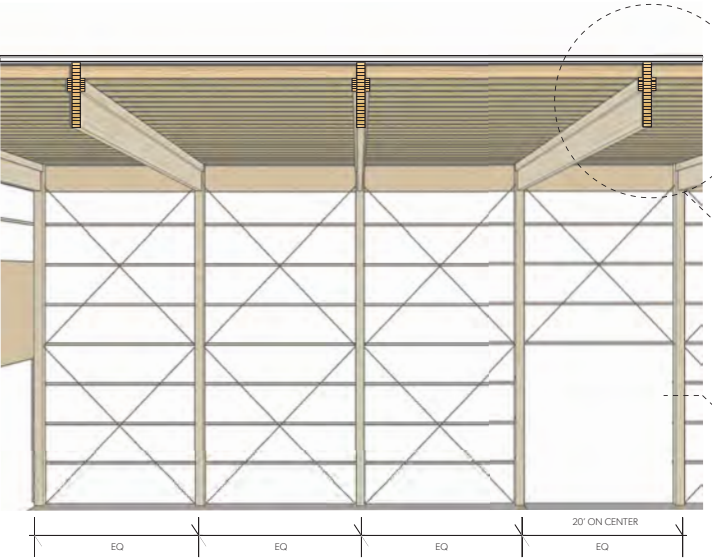
ATRIUM FLOORS

5. 4"-CONCRETE TOPPING
6. 3-PLY CLT
7. GLULAM BEAMS + COLUMNS

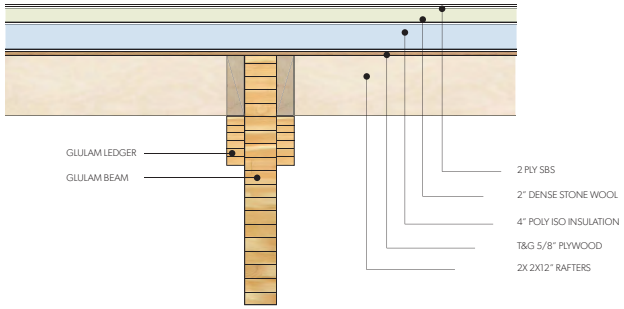


FEATURE STAIR

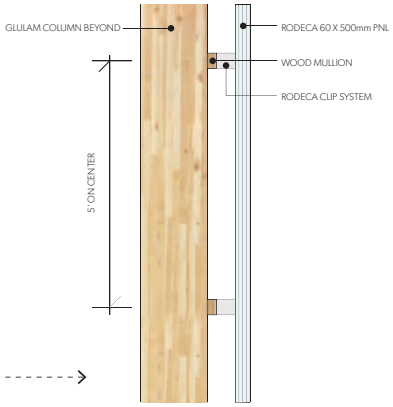
STRUCTURAL TYPOLOGIES
AWP



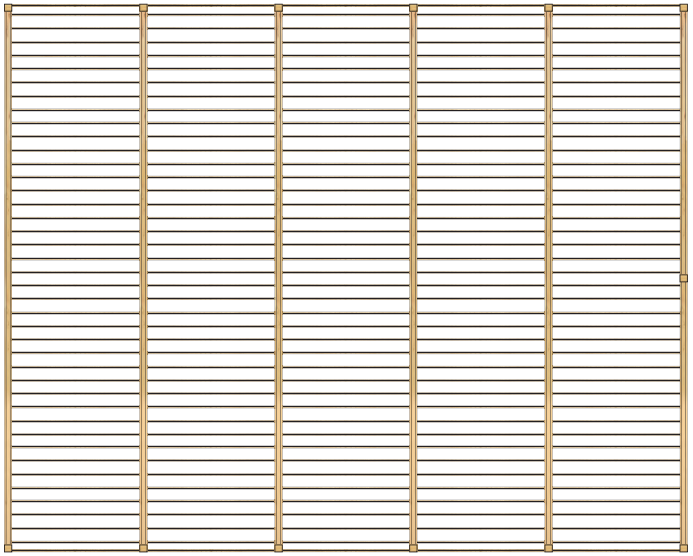
STRUCTURAL ASSEMBLY - SECTION



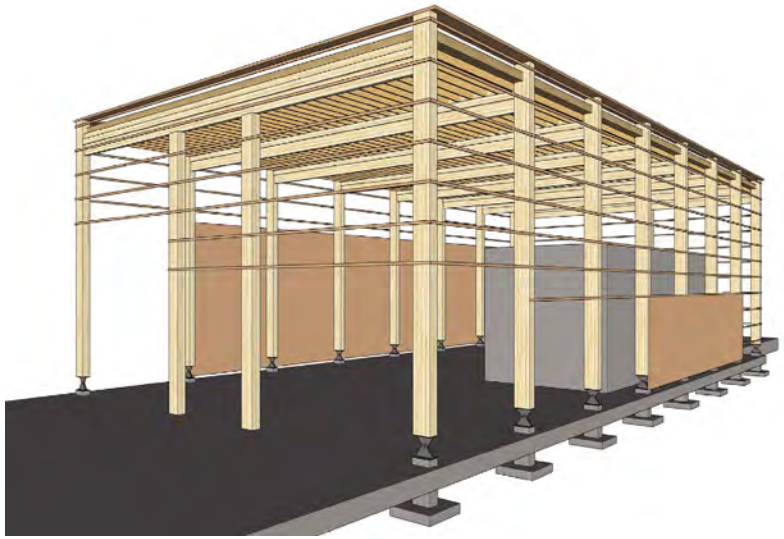
ROOF STRUCTURE



CLADDING SUPPORT



STRUCTURAL ASSEMBLY - PLAN



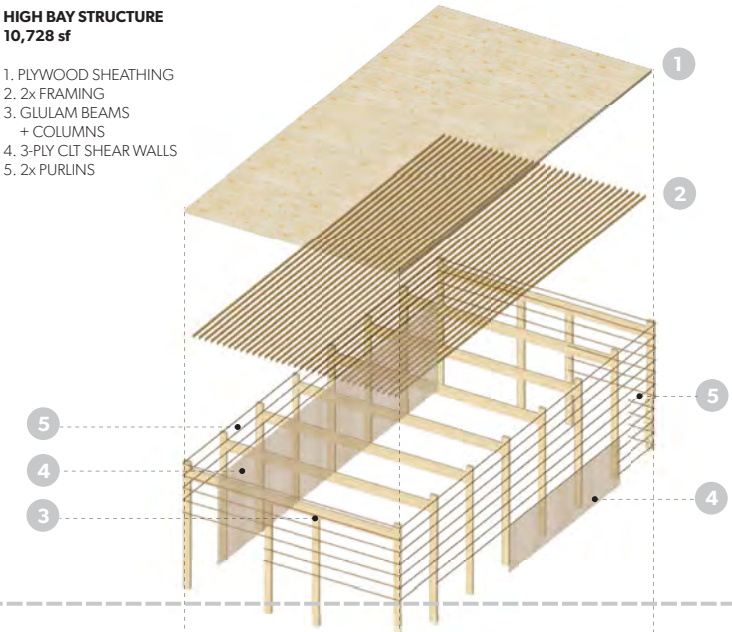
AXO VIEW

STRUCTURAL TYPOLOGIES

AWP

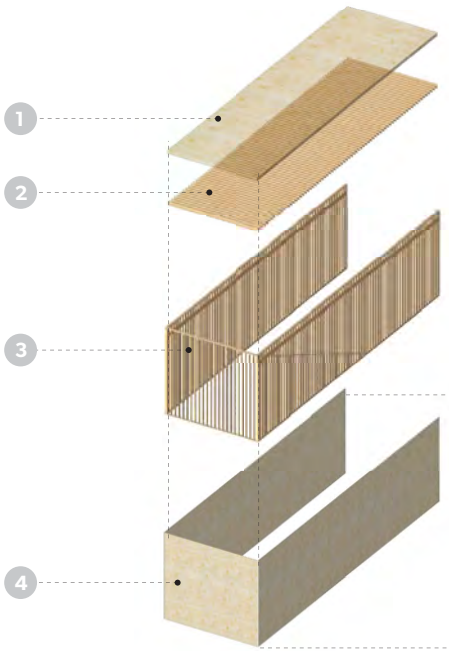
HIGH BAY STRUCTURE
10,728 sf

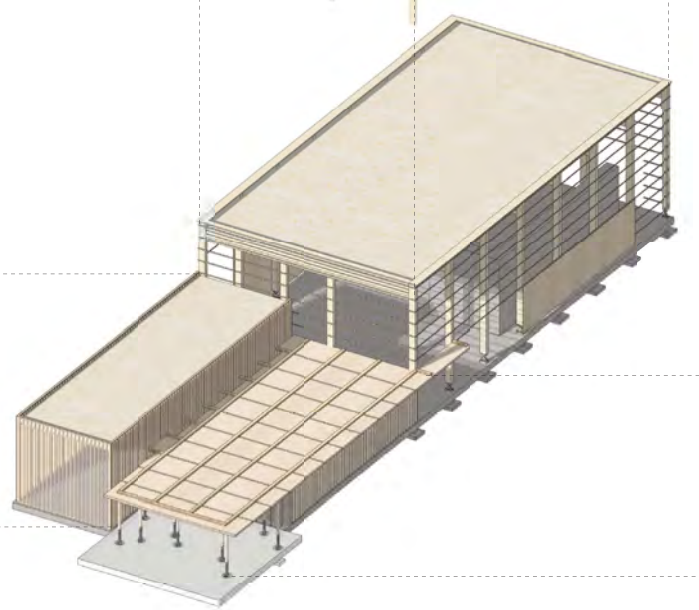
1. PLYWOOD SHEATHING
2. 2x FRAMING
3. GLULAM BEAMS
   + COLUMNS
4. 3-PLY CLT SHEAR WALLS
5. 2x PURLINS



COMPOSITES STRUCTURE
3,330 sf

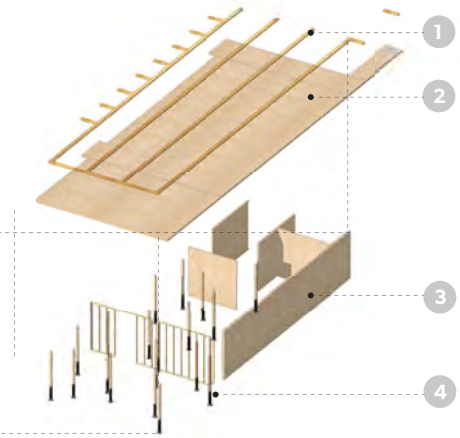
1. PLYWOOD SHEATHING
2. TJI JOISTS
3. ENG. WOOD STUDS
4. PLYWOOD SHEAR WALLS



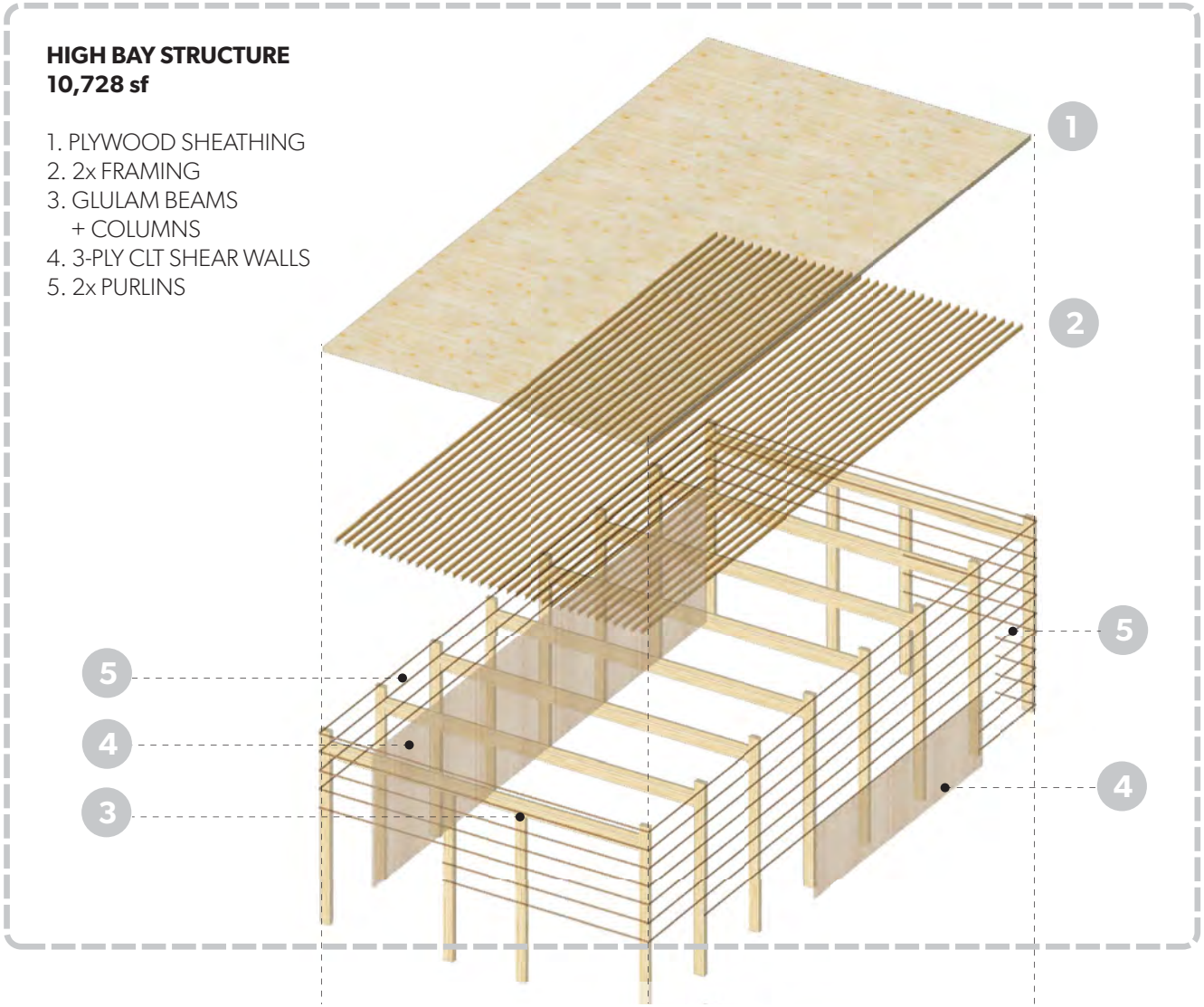


LOBBY STRUCTURE
5,272 sf Canopy
(3,125 sf interior)

1. GLULAM FRAME
2. CLT PANELS
3. PLYWOOD SHEAR WALLS
4. GLULAM COLUMNS



STRUCTURAL TYPOLOGIES
AWP



STRUCTURAL TYPOLOGIES
AWP

COMPOSITES STRUCTURE
3,330 sf

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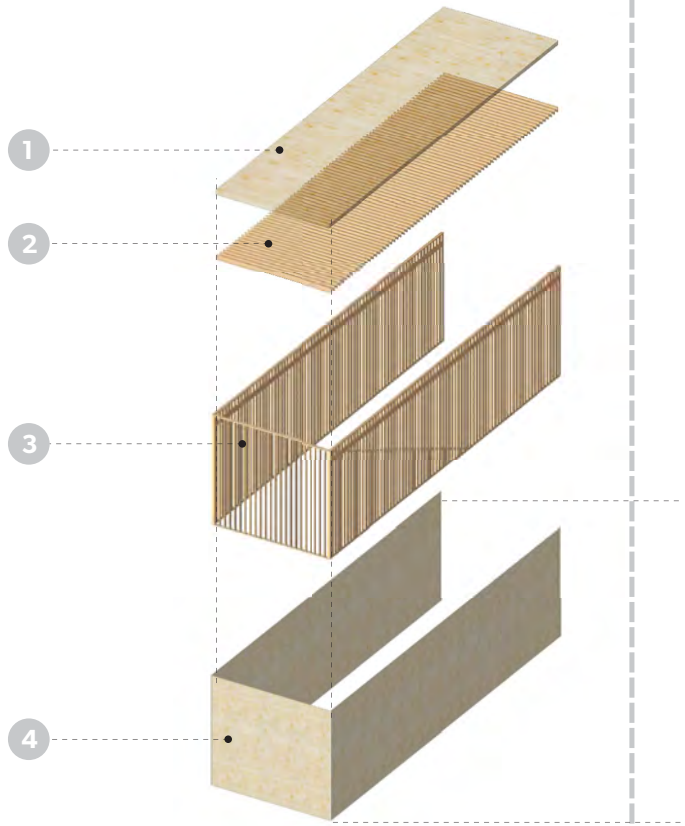

LOBBY STRUCTURE
5,272 sf Canopy
(3,125 sf interior)

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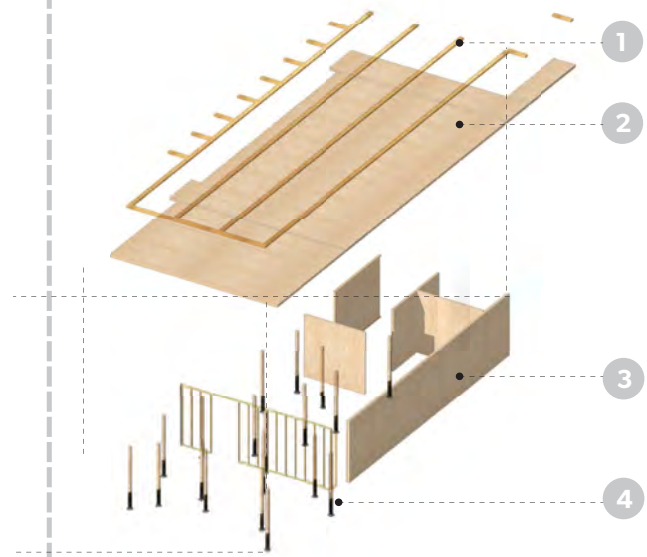
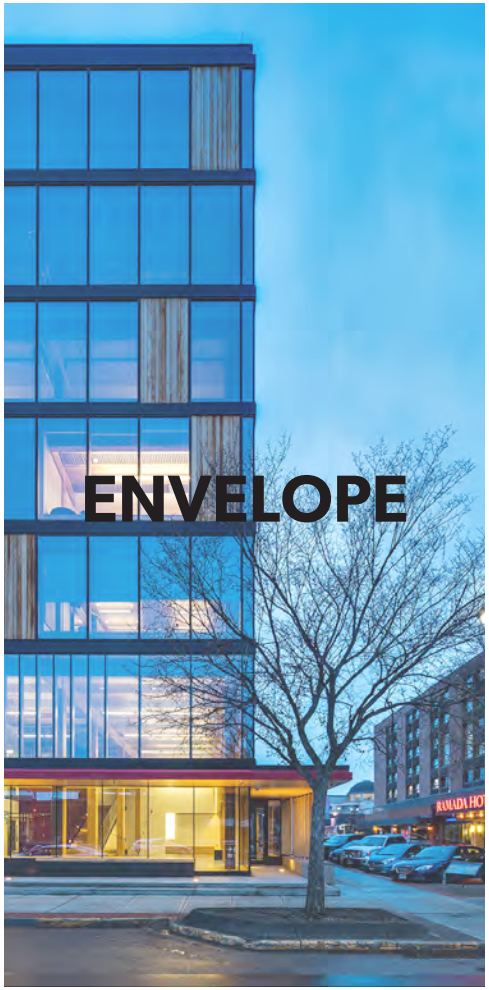


STRUCTURE


ENVELOPE

INTERIOR

LANDSCAPE

WOOD

GLULAM	25,000 - 27,500 CF
CLT (RANGE OF 3-PLY, 5-PLY AND 7-PLY)	45,000 - 50,000 CF
SAWN TIMBER	16,500 - 20,000 BF
LSL SHEATHING	4,700 - 5,000 CF
I-JOISTS	2,240 - 2,500 LF
PLYWOOD (4'X8')	1,100 - 1,500 SHEETS

ALTERNATE WOOD

LVL OR PSL (20% OF GLULAM)
NLT (50% OF CLT)
LVL OR PSL
LVL SHEATHING OR 3-PLY CLT
LVL OR PSL BEAMS
OSB (4'X8')

CONNECTORS

HBV MESH STRIPS	20,000 - 30,000 LF
SELF-TAPPING SCREWS	10,000 - 14,000 EA
GLUED-IN RODS	100 - 150 EA
I-JOIST HANGERS	140 - 200 EA
KNAPP MEGANT	60 - 120 EA
HOLD DOWN / BRACE / BUCKING RESTRAINED BRACE	34 - 50 EA

ALTERNATE CONNECTORS

LIGHTER DUTY SCREW (10% OF SELF-TAPPING SCREWS)
SIMPSON STRONG TIE/USP STRUCTURAL CONNECTORS

CONCRETE

CONCRETE	2,300 - 2,600 CY
CONCRETE - STRONG FLOOR AND STRONG WALL	370-420 CY

CLADDING

WOOD CLADDING - THERMALLY MODIFIED SIDING	**17,500 - 35,000** SF
WOOD CLADDING + SOFFIT (STAINED OR CHARRED)	**16,000 - 20,000** SF
POLYCARBONATE	**12,000 - 15,000** SF

GLAZING

WOOD FRAMED CURTAIN WALL	**11,000 - 19,000** SF
ALUMINUM CURTAIN WALL	**11,000 - 19,000** SF
WOOD WINDOWS	**7,600 - 9,000** SF
ALUMINUM WINDOWS	**7,600 - 9,000** SF

DOORS

INTERIOR WOOD DOORS	**235 - 260** EA
EXTERIOR GLASS DOORS	**20 - 25** EA
INTERIOR GLASS DOORS	**25 - 75** EA
EXTERIOR WOOD DOORS	**6 - 8** EA

FINISHES + FIXTURES

INTERIOR WOOD ACT	**10,000 - 12,000** SF
INTERIOR WOOD BLINDS	**7,600 - 8,500** SF
INTERIOR FURNITURE	**FEATURE CUSTOM WOOD FURNITURE**

FEATURE STAIR + MILLWORK

ATRIUM FEATURE STAIR	**2-STOREY MASS TIMBER FEATURE STAIR**
MILLWORK	**FEATURE WOOD MILLWORK**

EXTERIOR WORK	
SITE CONCRETE AND WALKWAYS	**26,000 - 30,000** SF
IMPORTED SOIL	**90,000 - 100,000** CF

WOOD	
WOOD DECKING - THERMALLY MODIFIED	**3,500 - 4,000** SF

DONOR ENGAGEMENT TIMELINE

STEP 1 LETTER OF INTEREST

DONOR ENGAGEMENT TIMELINE

STEP 1 LETTER OF INTEREST

STEP 2 WORK WITH DESIGN TEAM TO REFINE SPECIFICATIONS OF DONATED MATERIAL **APRIL 2016**

DONOR ENGAGEMENT TIMELINE

STEP 1	LETTER OF INTEREST	
STEP 2	WORK WITH DESIGN TEAM TO REFINE SPECIFICATIONS OF DONATED MATERIAL	**APRIL 2016**
STEP 3	WALSH TO QUANTIFY MATERIALS AND ISSUE TO DONORS	**MAY 2016**

DONOR ENGAGEMENT TIMELINE

STEP 1	LETTER OF INTEREST	
STEP 2	WORK WITH DESIGN TEAM TO REFINE SPECIFICATIONS OF DONATED MATERIAL	**APRIL 2016**
STEP 3	WALSH TO QUANTIFY MATERIALS AND ISSUE TO DONORS	**MAY 2016**
STEP 4	FORMALIZE DONATION IN-KIND GIFT WITH OSU FOUNDATION	**JUNE 2016**