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Paisley Mill

Architecture - Studio 6 Project

Winter 2022

Lauren Teal Manners

Manners Teal Lauren
Sheridan College

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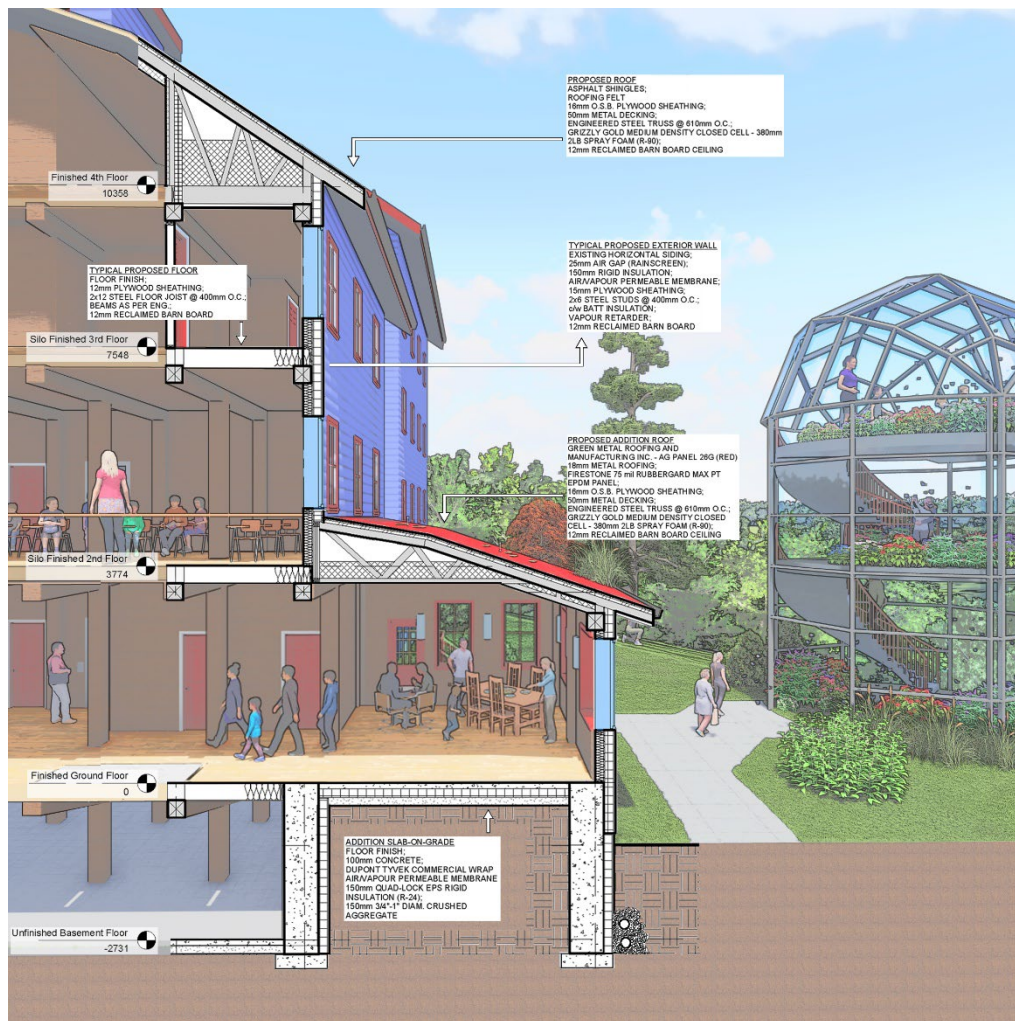


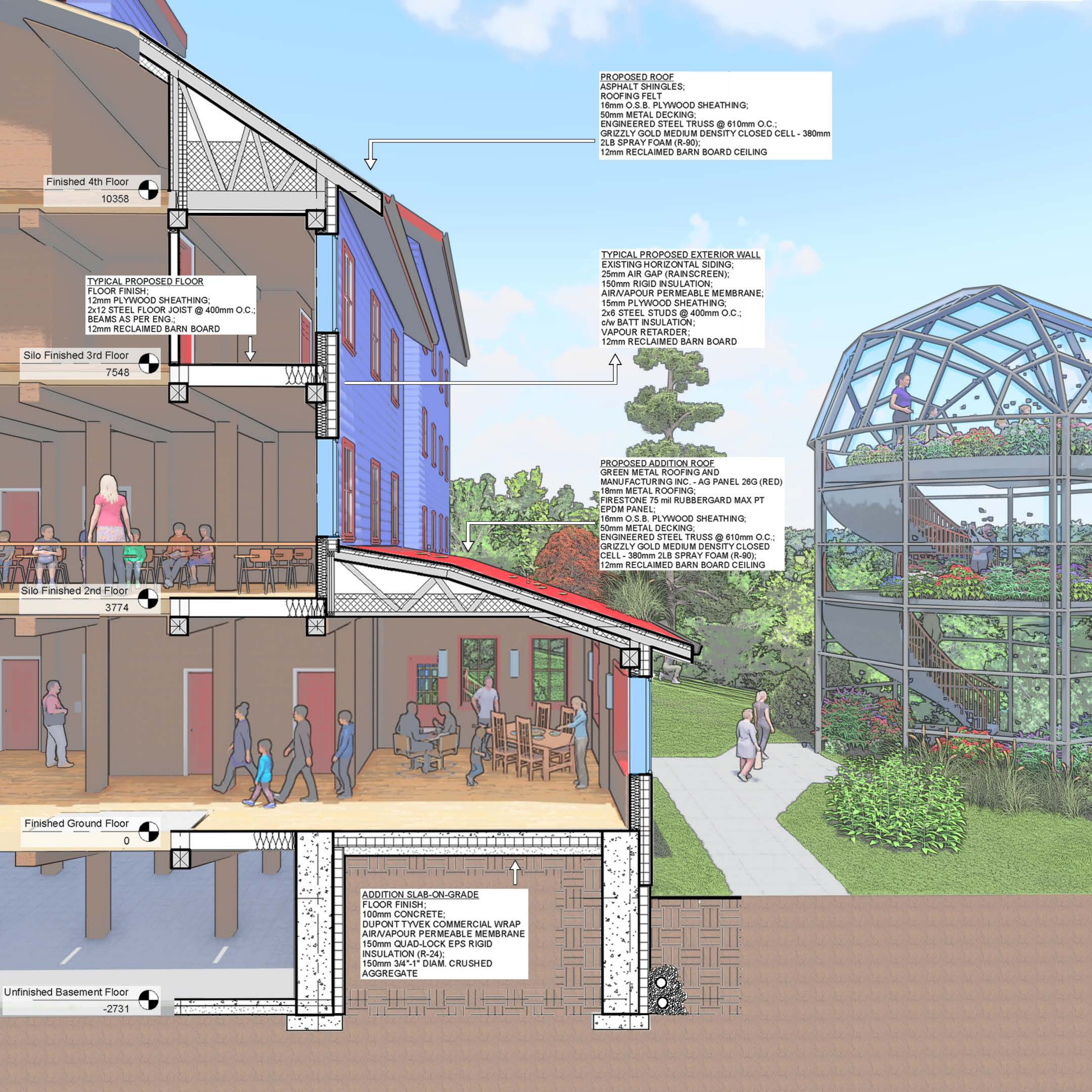
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BY: LAUREN TEAL MANNERS

The Paisley Mills Education Centre is intended to achieve the goals and values for the future of this property. The vacant grain silo will be repurposed into an educational destination for locals and visitors. The building will be used to highlight the heritage of Paisley, the grain mill, as well as local biodiversity with the addition of a butterfly conservatory. The adaptation features a dining hall with an extension to the main floor, a classroom on the second floor, escape rooms on the third and fourth floor. The 3D wall section provides the construction style and integration of the new structure with the existing to achieve the overall design concept. The construction of the renovated existing structure and proposed new structure is steel framed construction, with engineered steel trusses. The insulation values achieved in the exterior walls and roofs comply with passive house assemblies. From the slab-on-grade, each point at risk of thermal bridging has been addressed with additional insulation coverage. Although, updating the structure and thermal performance of the building envelope, reclaimed materials from the surrounding area will be used for the interior renovations and the existing barn board to be reinstalled. Between the butterfly conservatory, the educational and dining space of the new facility, anyone visiting the Paisley Mills Education Centre will leave enriched with a connection to their community and local ecosystem.





PROPOSED ROOF
ASPHALT SHINGLES;
ROOFING FELT
16mm O.S.B. PLYWOOD SHEATHING;
50mm METAL DECKING;
ENGINEERED STEEL TRUSS @ 610mm O.C.;
GRIZZLY GOLD MEDIUM DENSITY CLOSED CELL - 380mm
2LB SPRAY FOAM (R-90);
12mm RECLAIMED BARN BOARD CEILING

Finished 4th Floor
10358

TYPICAL PROPOSED FLOOR
FLOOR FINISH;
12mm PLYWOOD SHEATHING;
2x12 STEEL FLOOR JOIST @ 400mm O.C.;
BEAMS AS PER ENG.;
12mm RECLAIMED BARN BOARD

Silo Finished 3rd Floor
7548

TYPICAL PROPOSED EXTERIOR WALL
EXISTING HORIZONTAL SIDING;
25mm AIR GAP (RAINSCREEN);
150mm RIGID INSULATION;
AIR/VAPOUR PERMEABLE MEMBRANE;
15mm PLYWOOD SHEATHING;
2x6 STEEL STUDS @ 400mm O.C.;
c/w BATT INSULATION;
VAPOUR RETARDER;
12mm RECLAIMED BARN BOARD

PROPOSED ADDITION ROOF
GREEN METAL ROOFING AND
MANUFACTURING INC. - AG PANEL 26G (RED)
18mm METAL ROOFING;
FIRESTONE 75 mil RUBBERGARD MAX PT
EPDM PANEL;
16mm O.S.B. PLYWOOD SHEATHING;
50mm METAL DECKING;
ENGINEERED STEEL TRUSS @ 610mm O.C.;
GRIZZLY GOLD MEDIUM DENSITY CLOSED
CELL - 380mm 2LB SPRAY FOAM (R-90);
12mm RECLAIMED BARN BOARD CEILING

Silo Finished 2nd Floor
3774

Finished Ground Floor
0

ADDITION SLAB-ON-GRADE
FLOOR FINISH;
100mm CONCRETE;
DUPONT TYVEK COMMERCIAL WRAP
AIR/VAPOUR PERMEABLE MEMBRANE
150mm QUAD-LOCK EPS RIGID
INSULATION (R-24);
150mm 3/4"-1" DIAM. CRUSHED
AGGREGATE

Unfinished Basement Floor
-2731