Winter 2022

Maha Qureshi

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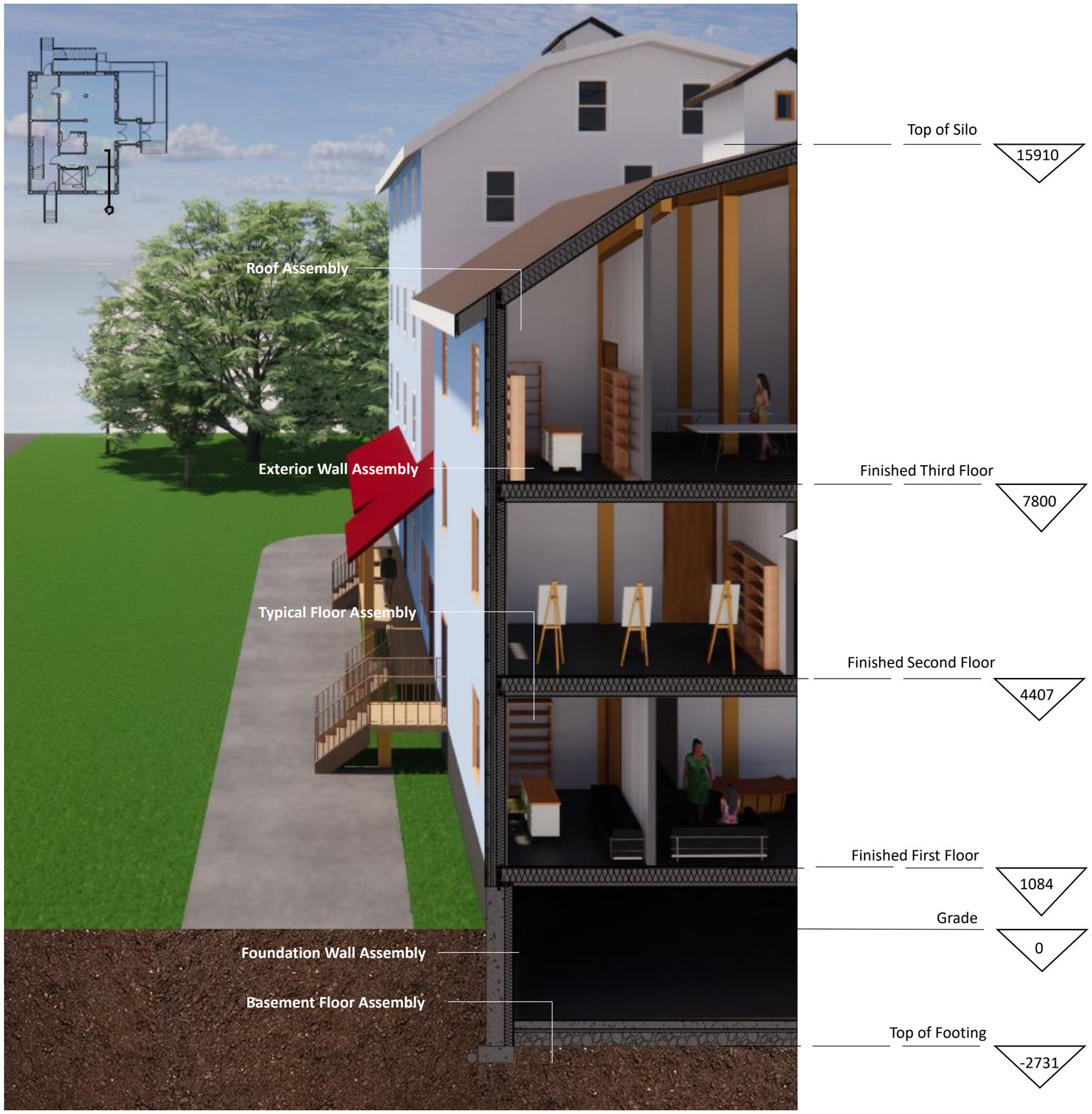
3D Wall Section



Roof Assembly
- 5mm ASPHALT ROOF SHINGLES
- DAMP PROOFING
- 25mm EXTERIOR SHEATHING BOARD
- 280mm TIMBER WOOD TRUSS
- 12mm GYPSUM BOARD (CertainTeed)

Exterior Wall Assembly
25mm WOOD SIDING
-30mm AIRSPACE
-150mm SEMI-RIGID INSULATION (mineral fibre wool)
-6mil AIR BARRIER
-12mm EXTERIOR SHEATHING BOARD
-38x140mm WOOD STUD WITH BATT INSULATION (Owens Corning) @ 600mm O.C
-6mil AIR/VAPOUR BARRIER (Vapor Guard)
-13mm G.W.B (CertainTeed)

Typical Floor Assembly
- 19mm OAK FLOORING (Bruce 3/4-inch X 3-1/4-inch Oak Gray Solid Hardwood Plank 22SF)
- 16mm EXTERIOR SHEATHING BOARD SUB-FLOOR
- 250mm WOOD STUD with BATT INSULATION (Owens Corning)
- 75mm SEMI-RIGID INSULATION (mineral fibre wool)
- 12mm GYPSUM BOARD (CertainTeed)

Basement Floor Assembly
- 19mm OAK FLOORING (Bruce 3/4-inch X 3-1/4-inch Oak Gray Solid Hardwood Plank 22SF)
- 150mm CONCRETE SLAB ON GRADE
- 6mil AIR/VAPOR BARRIER (Vapor Guard)
- 50mm RIGID INSULATION (Owens Corning)
- 200mm GRAVEL

Foundation Wall Assembly
- 16 DRAINAGE BOARD
- 250mm POURED CONCRETE
- 25mm AIR SPACE
- 50x150mm WOOD STUD C/W BATT INSULATION(Owens Corning)
- AIR/VAPOR BARRIER (Vapor Guard)
- 12mm GYPSUM BOARD (CertainTeed)

Design Intent Statement:

The old silo building is a heavy timber construction. The 3D wall section shows the design of the wall I have chosen to be used in the office, art gallery and pottery studio. The exterior wall material selected is wood planks as wanted to maintain the heritage look and pay respect to the old look of the building. Another reason to choose wood is that it is durable, sustainable, and efficient. Exterior sheathing is used instead of plywood to make the non-combustible building construction. Semi-rigid (mineral fibre wool) insulation is used above grade and is tripled. The roof material is asphalt shingles and was chosen because it is durable, eco-friendly, and safe. The same material was used on the old construction. Overall, the original appearance of the building is not changed except for the new addition, which is a vestibule.