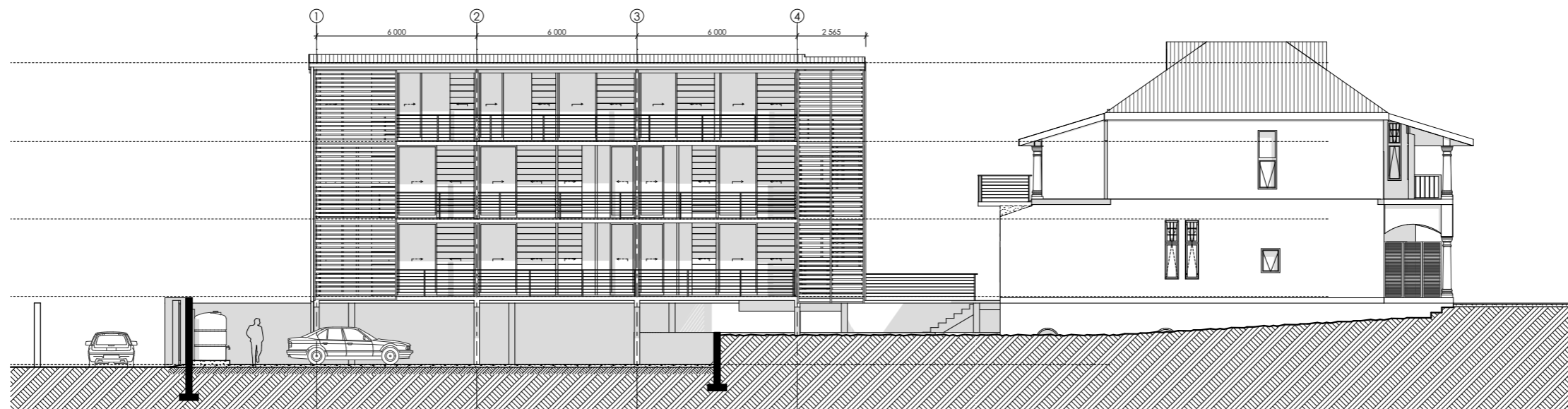
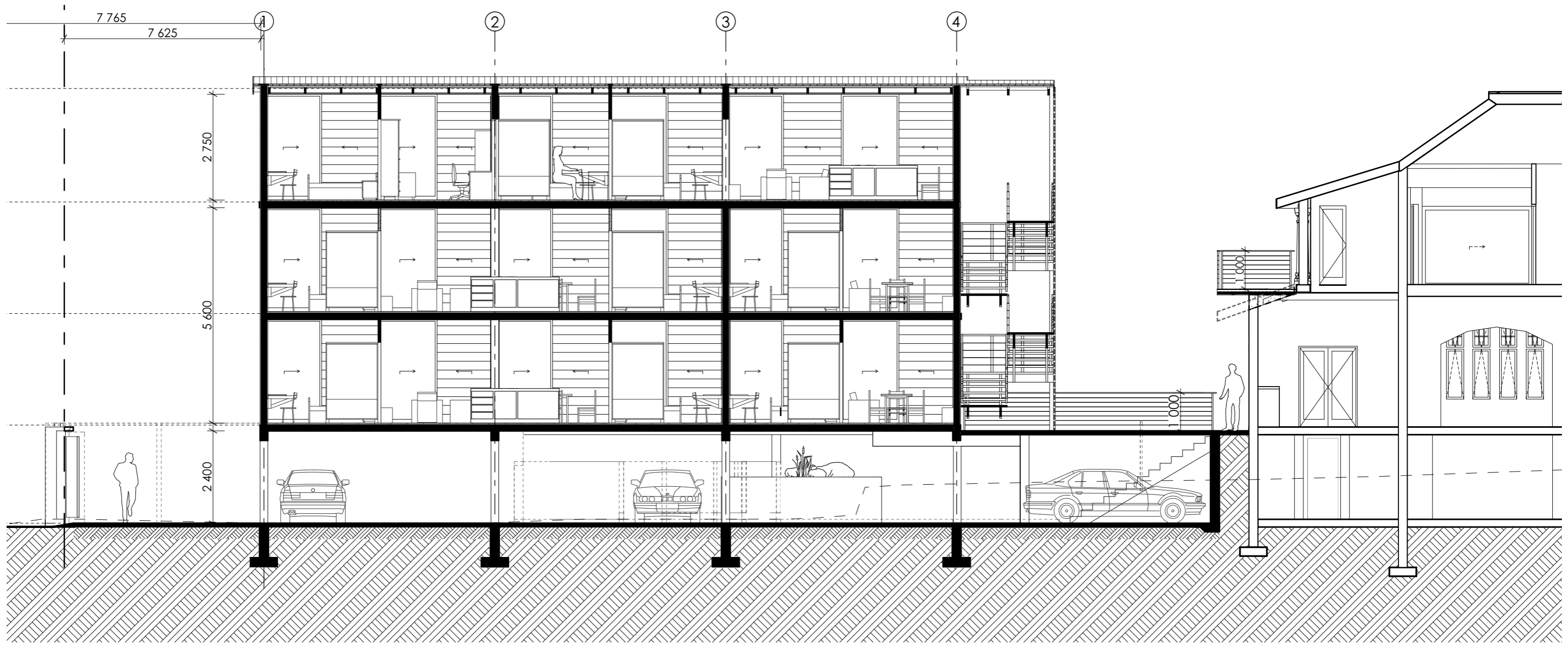


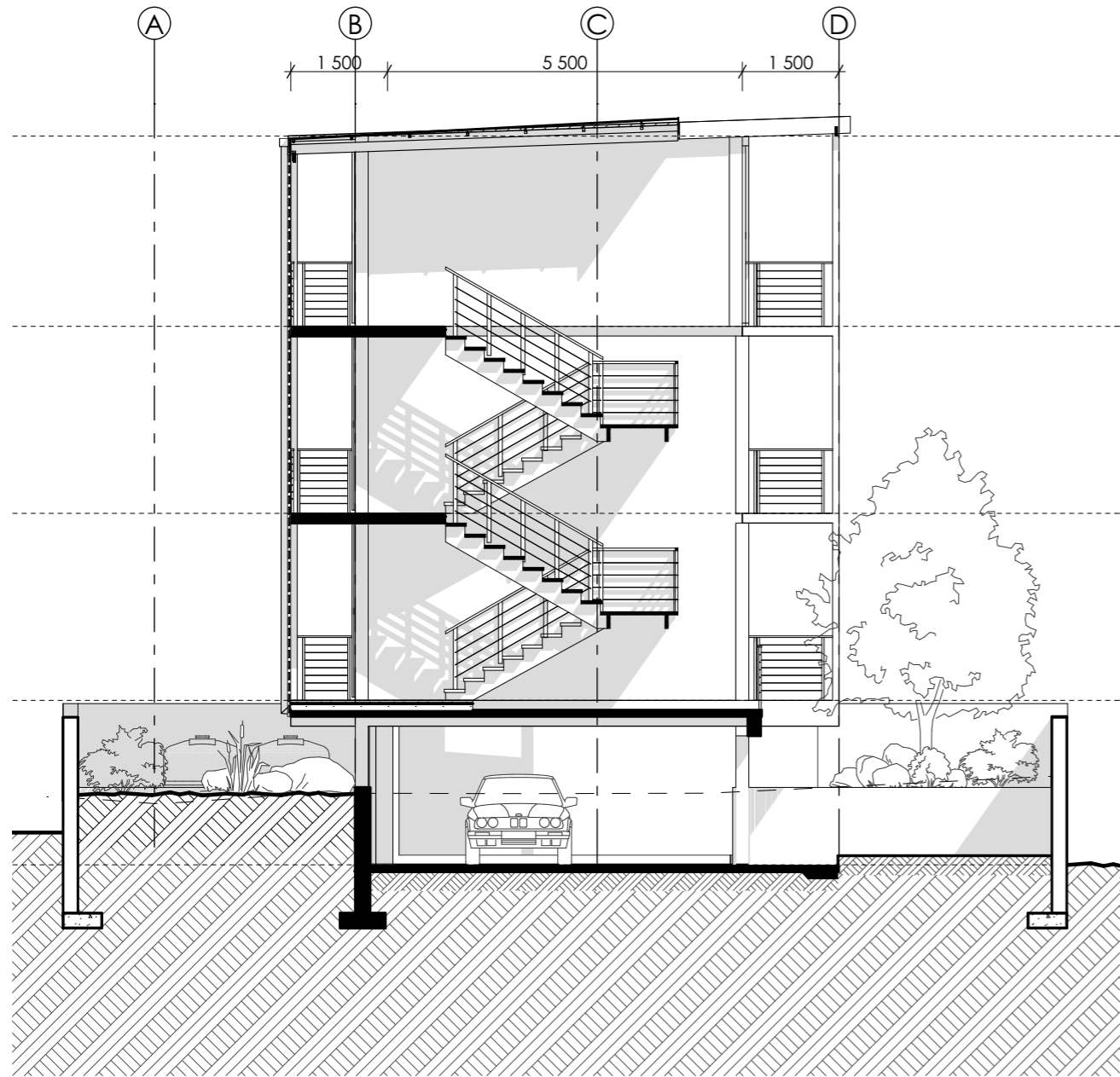
SOUTH EAST ELEVATION



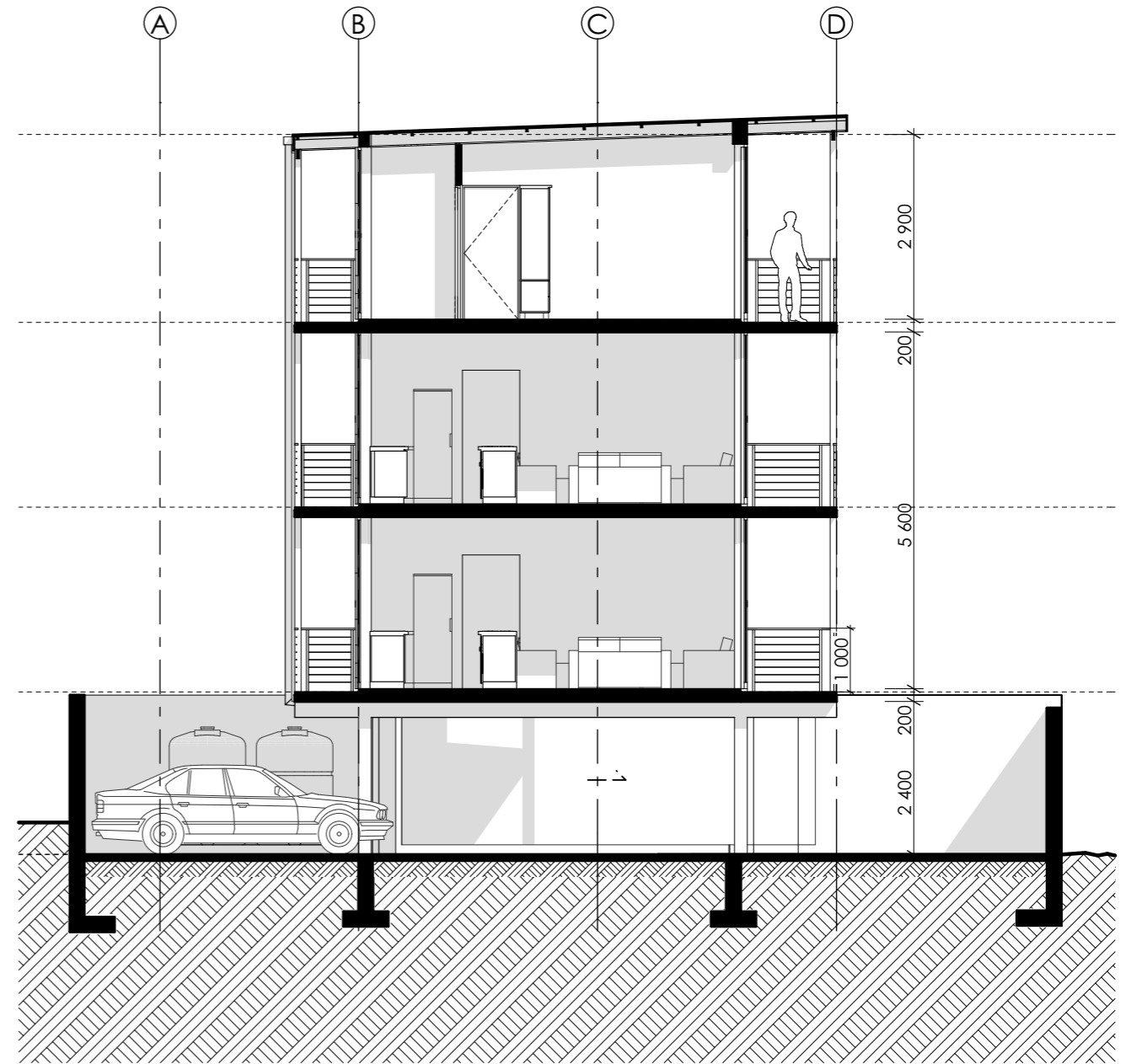
NORTH WEST ELEVATION



LONGITUDENAL SECTION

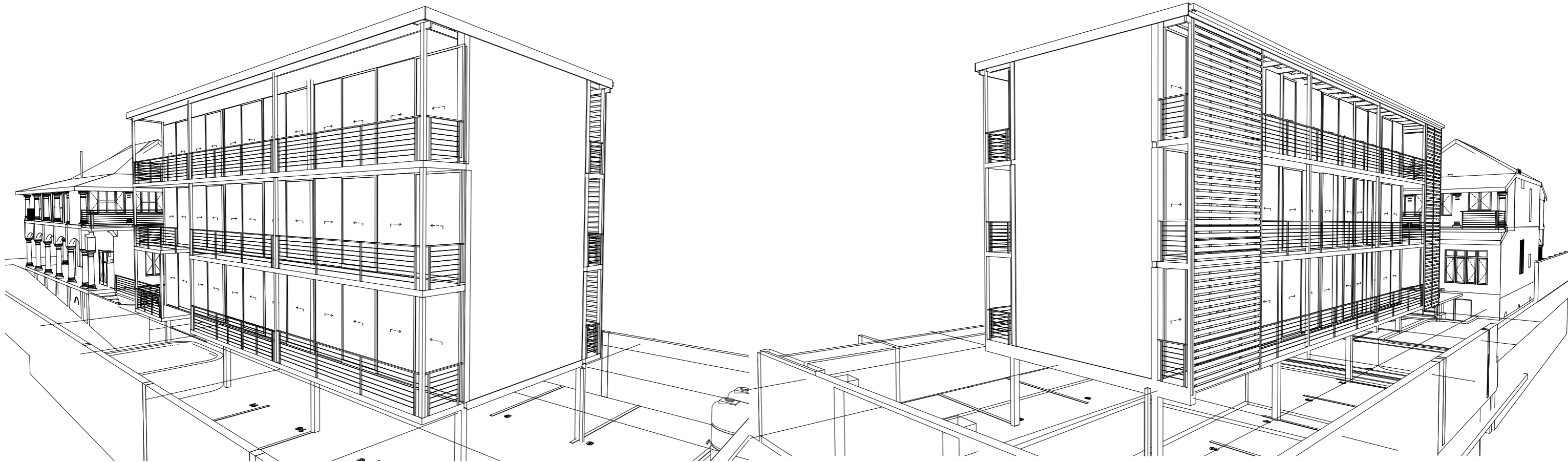


SOUTH WEST ELEVATION



CROSS SECTION





#### A RESIDENTIAL INFILL PROJECT IN DURBAN USING CLT CONSTRUCTION

##### THE SITE

situated in a suburb on the durban berea this project seeks to maximise the opportunity offered by the current zoning potential of the area which allows 9 residential units on a plot that has been developed with 1 unit.

built as a family home between 1911 - 1914 the house is intellegently positioned to overlook and activate the street on which it is located. 2/3rds of the property remain - on which there are 2 outbuildings.

##### THE PROGRAM

local town planning scheme defines a developable envelope of 4 storeys, inset from side and end boundaries. the building aims to fill that volume and maximise the potential the scheme offers. the balance of the FAR allowd on the site is split across 3 floors at 108m<sup>2</sup> per floor. The balance of coverage allows external decks and walkways along the 2 long elevations adding 45m<sup>2</sup> per floor. the stair is externalised from the floor plan in order to maximise the flexibility of each floor plate.

##### THE SOLUTION

the site is excavated and levelled to the lowest point at the back lane - the boundary is retained. a concrete platform is built at ground floor level allowing a basement parking below. ground, first and 2nd floor plates and roof are planned as CLT element slabs.

the intermediate structure is columns and beams of laminated timber with the element slabs set between.

end walls are solid CLT panels - as are the internal walls

the external walkway and decks are seperate clip on units that will be prefabricated from siberian larch.

During the time that the siteworks are prepared and retained, the CLT will be prefabricated. The project aims to be the first multi storey CLT structure built in South Africa.

