



Richard Rogers

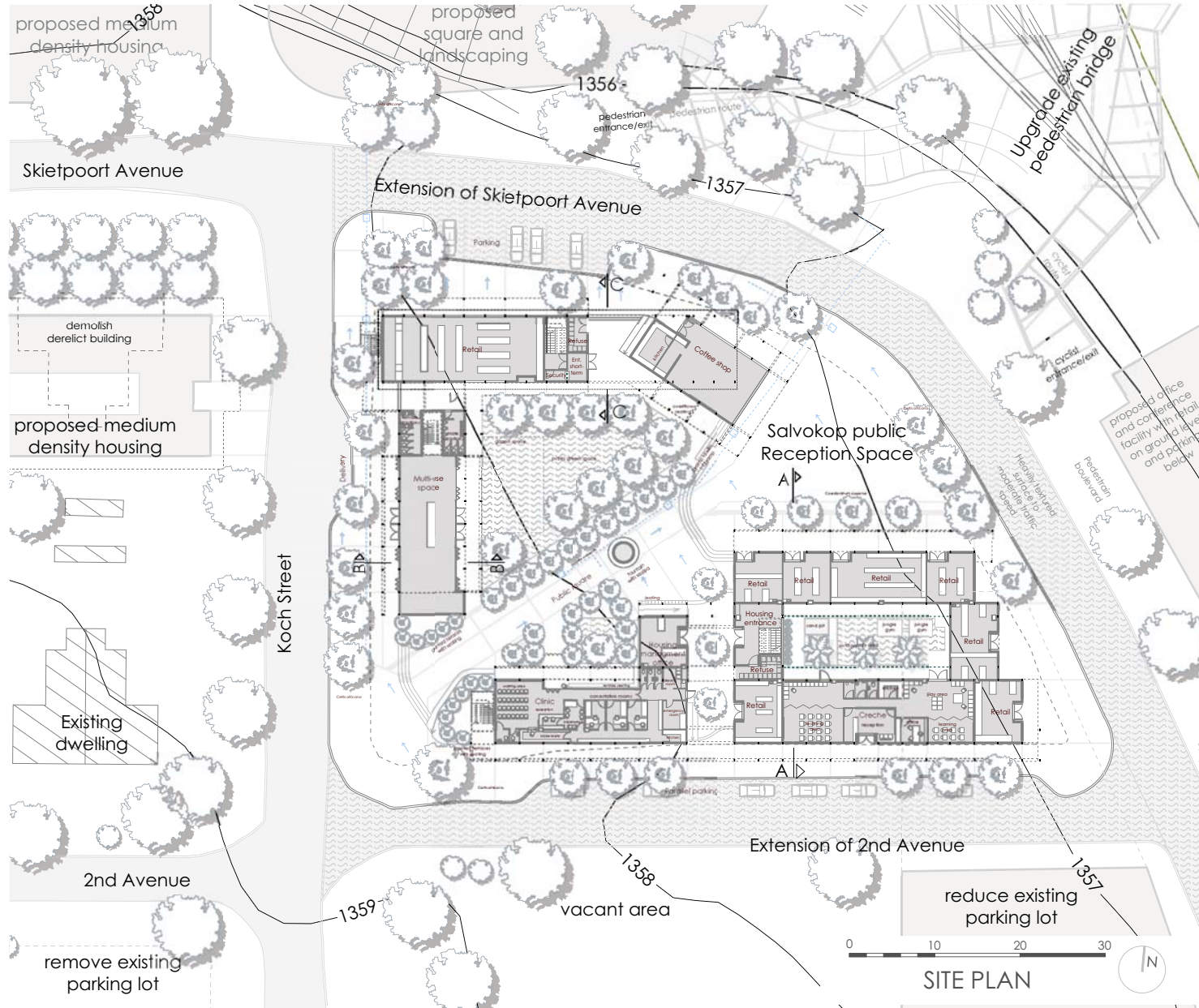
“Design is about giving order, scale  
and beauty to the buildings and the  
space between them”



# 8 Drawings

Sketch plans  
Sections  
Details  
Elevations  
Perspectives

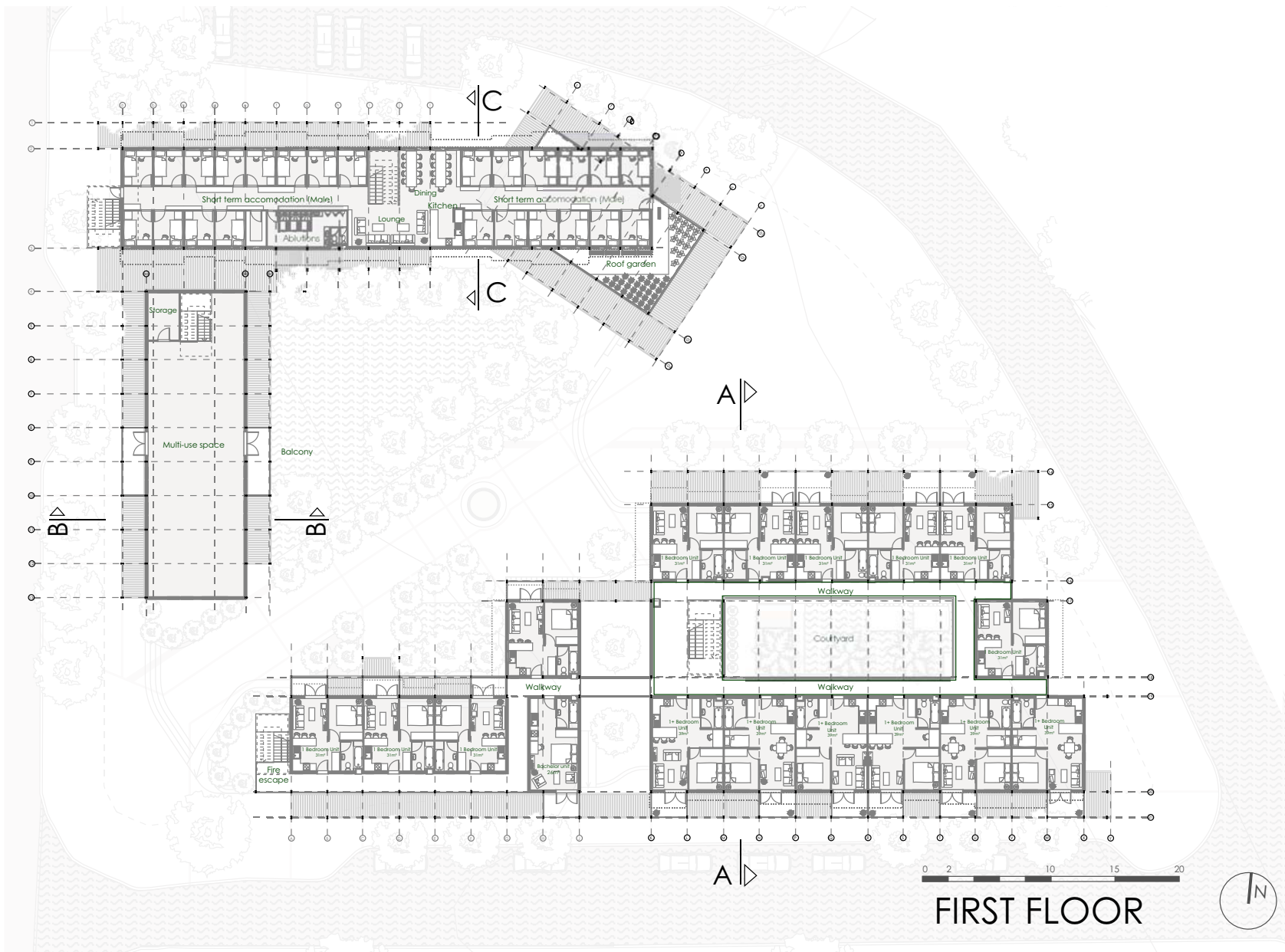
Reduced representations of relevant 2D and 3D drawings which present the building design and the spaces created as a result, details of connections etc.

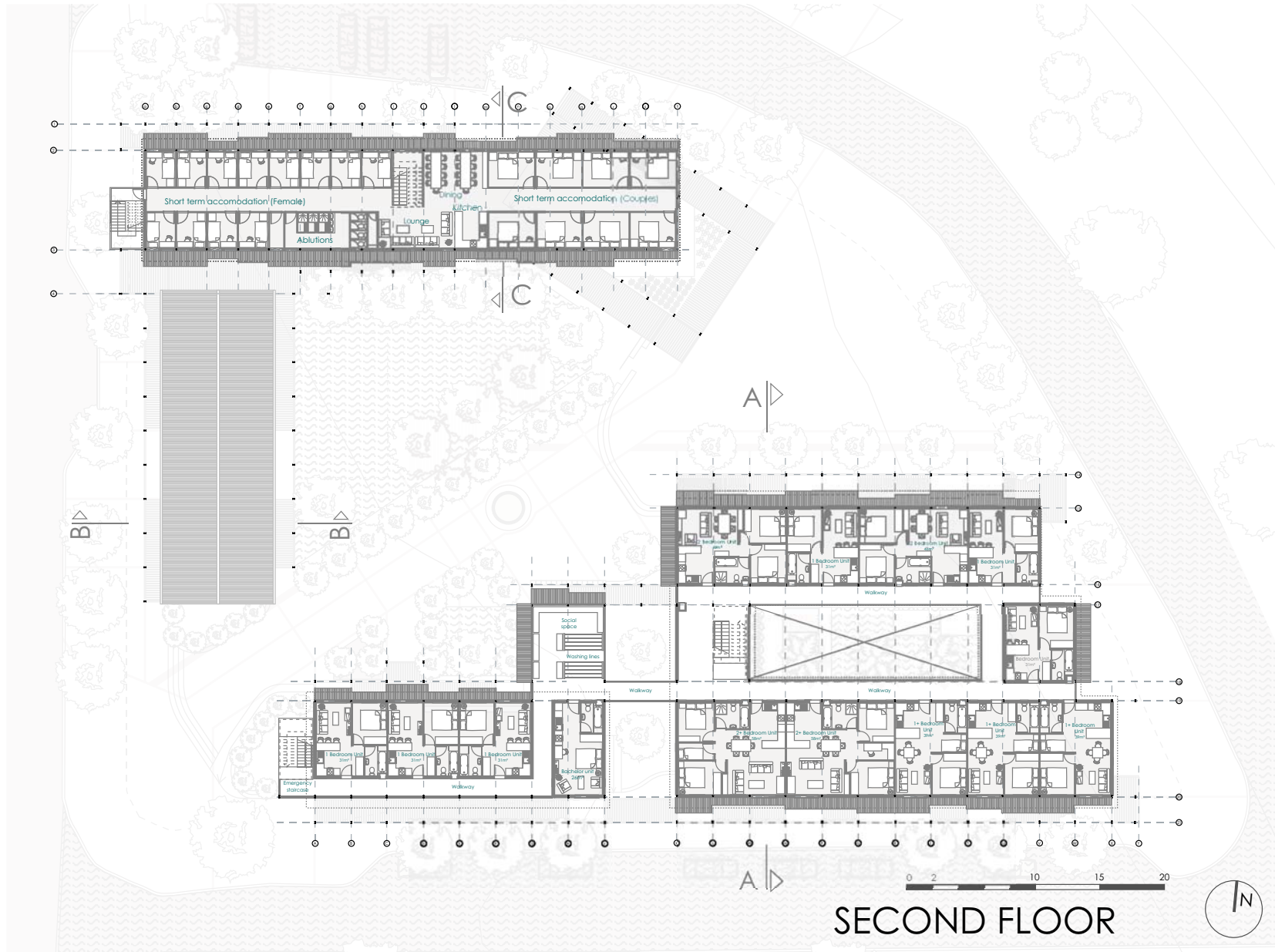


0 10 20 30

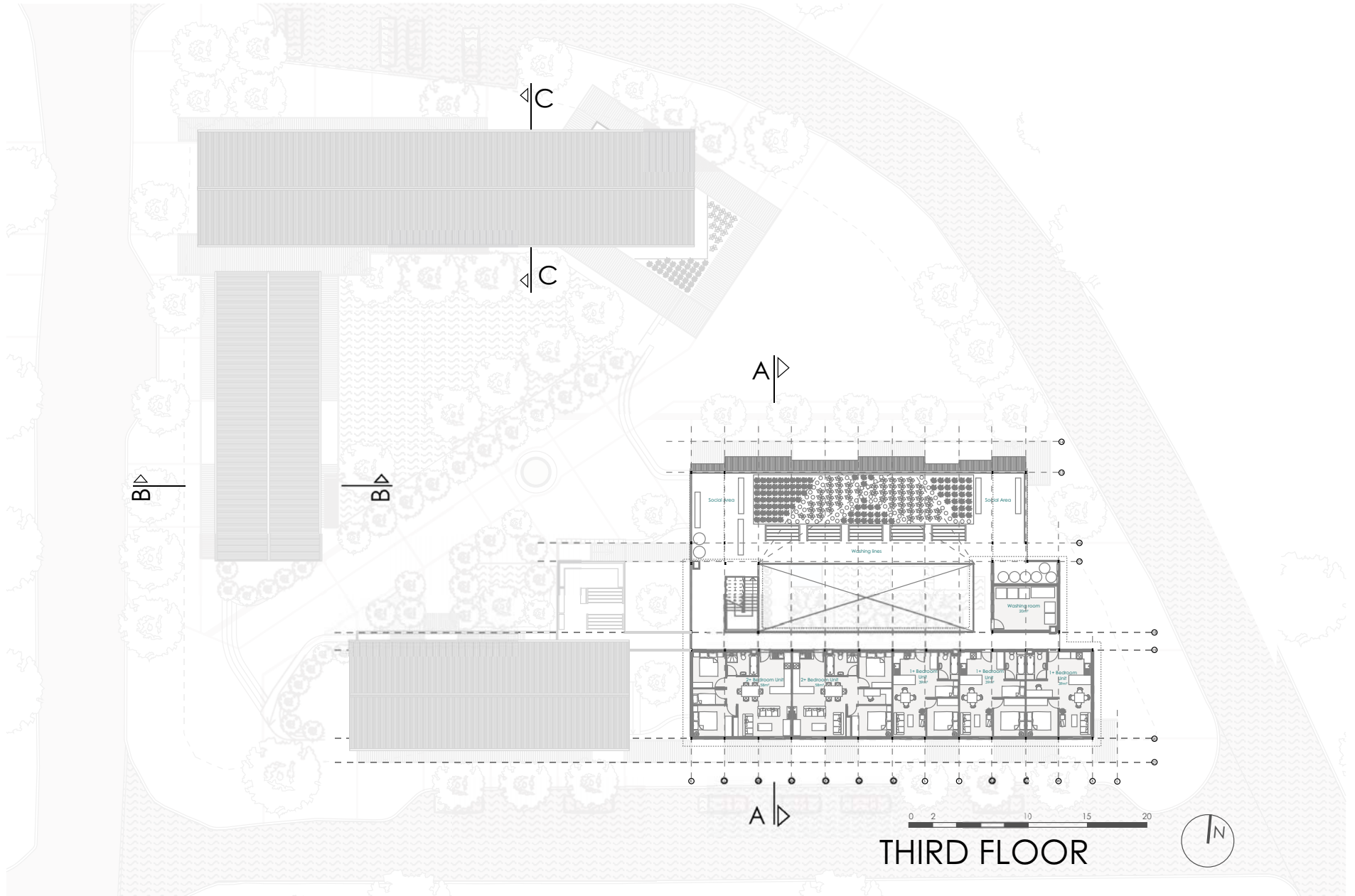
SITE PLAN

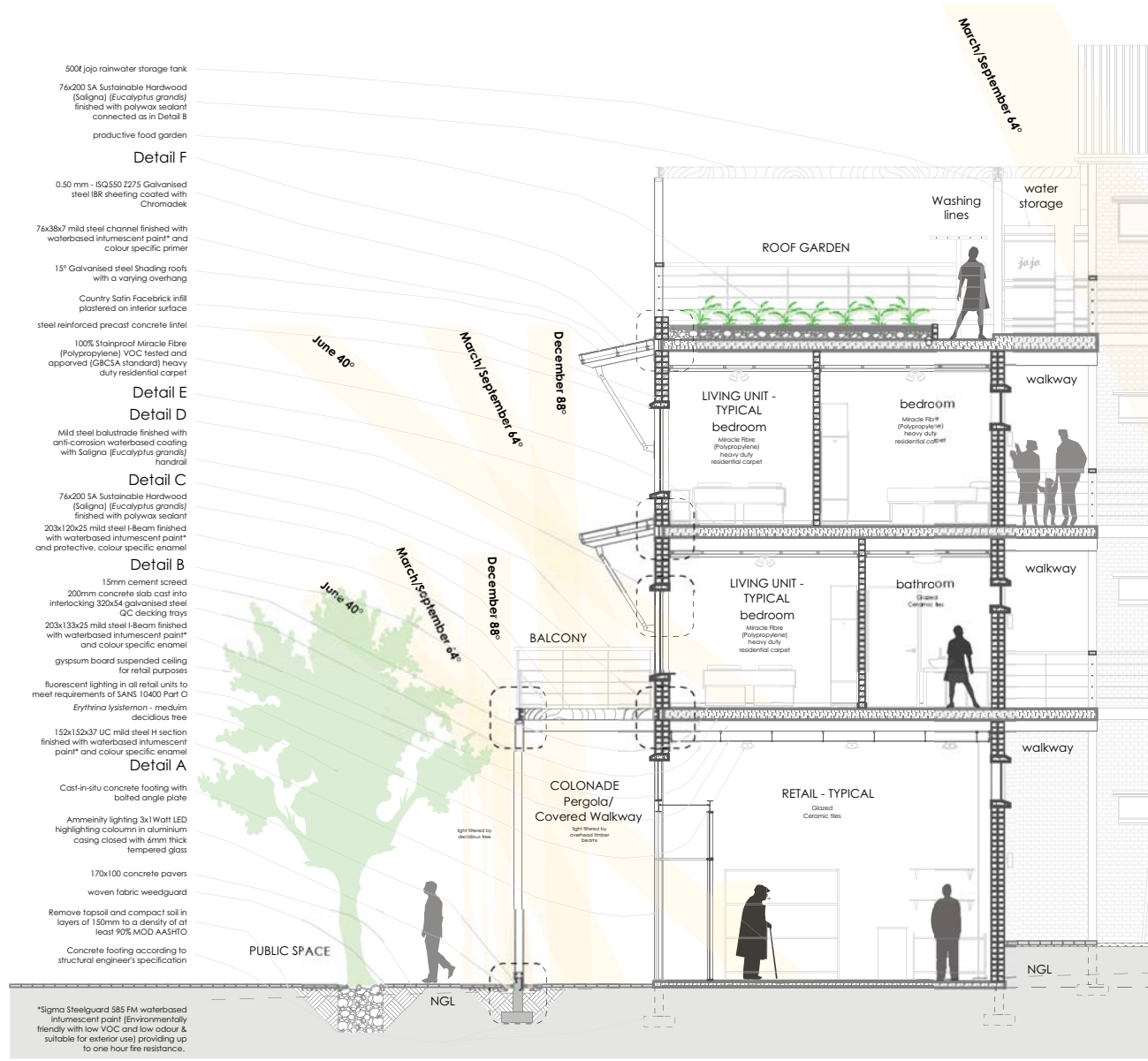




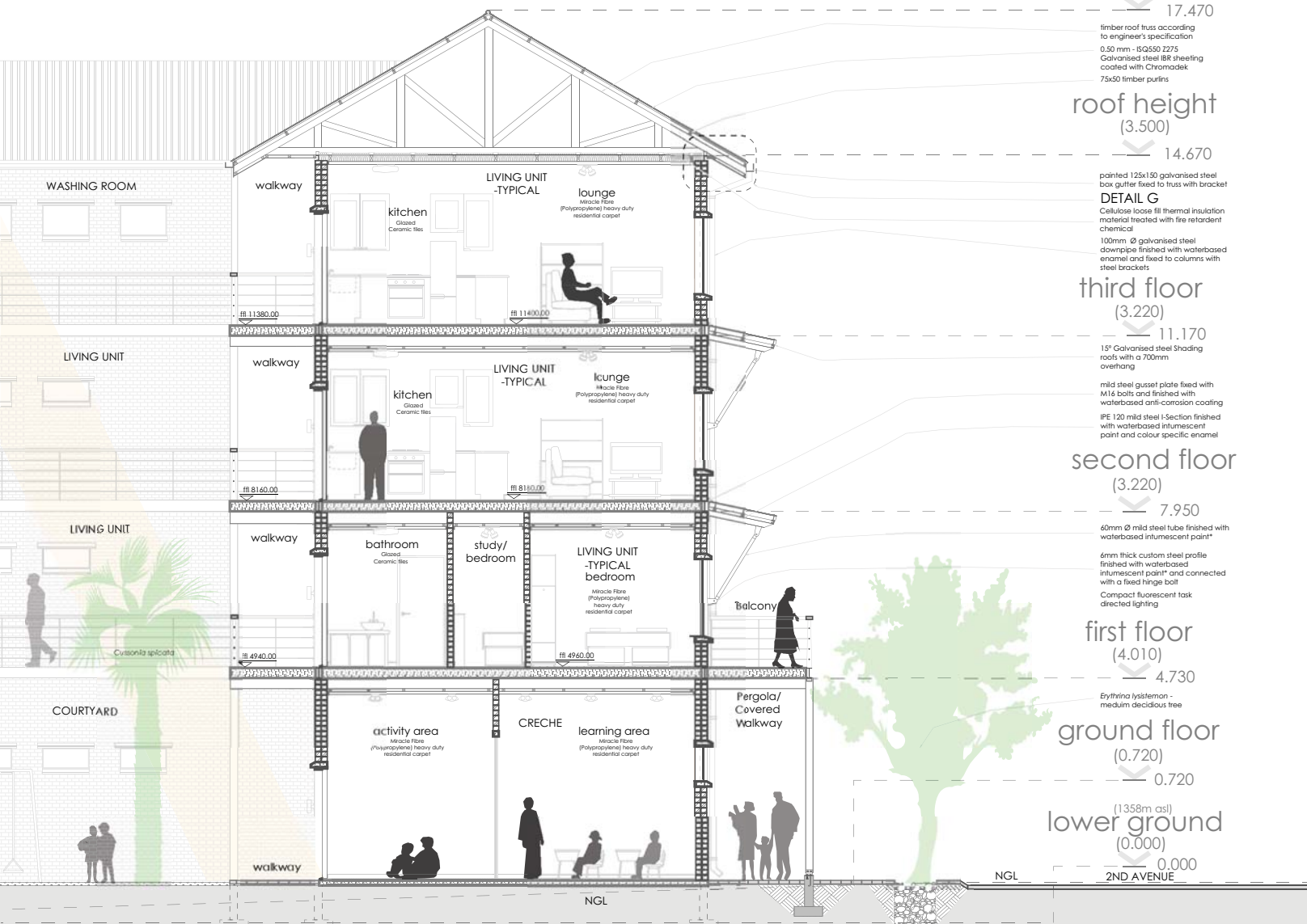


SECOND FLOOR





\*Sigma Steelguard 585 FM waterbased intumescent paint (Environmentally friendly with low VOC and low odour & suitable for exterior use) providing up to one hour fire resistance.



top of roof  
(2.800)

17.470

roof height  
(3.500)

14.670

DETAIL G  
Cellulose loose fill thermal insulation material treated with fire retardant chemical  
100mm Ø galvanised steel downpipe finished with waterbased enamel and fixed to columns with steel brackets

third floor  
(3.220)

11.170

15° Galvanised steel Shading roofs with a 700mm overhang  
mild steel gusset plate fixed with M16 bolts and finished with waterbased anti-corrosion coating  
IPE 120 mild steel I-Section finished with waterbased intumescent paint and colour specific enamel

second floor  
(3.220)

7.950

60mm Ø mild steel tube finished with waterbased intumescent paint\*  
6mm thick custom steel profile finished with waterbased intumescent paint\* and connected with a fixed hinge bolt  
Compact fluorescent task directed lighting

first floor  
(4.010)

4.730

Erythrina lysistemon - medium deciduous tree

ground floor  
(0.720)

0.720

lower ground  
(0.000)

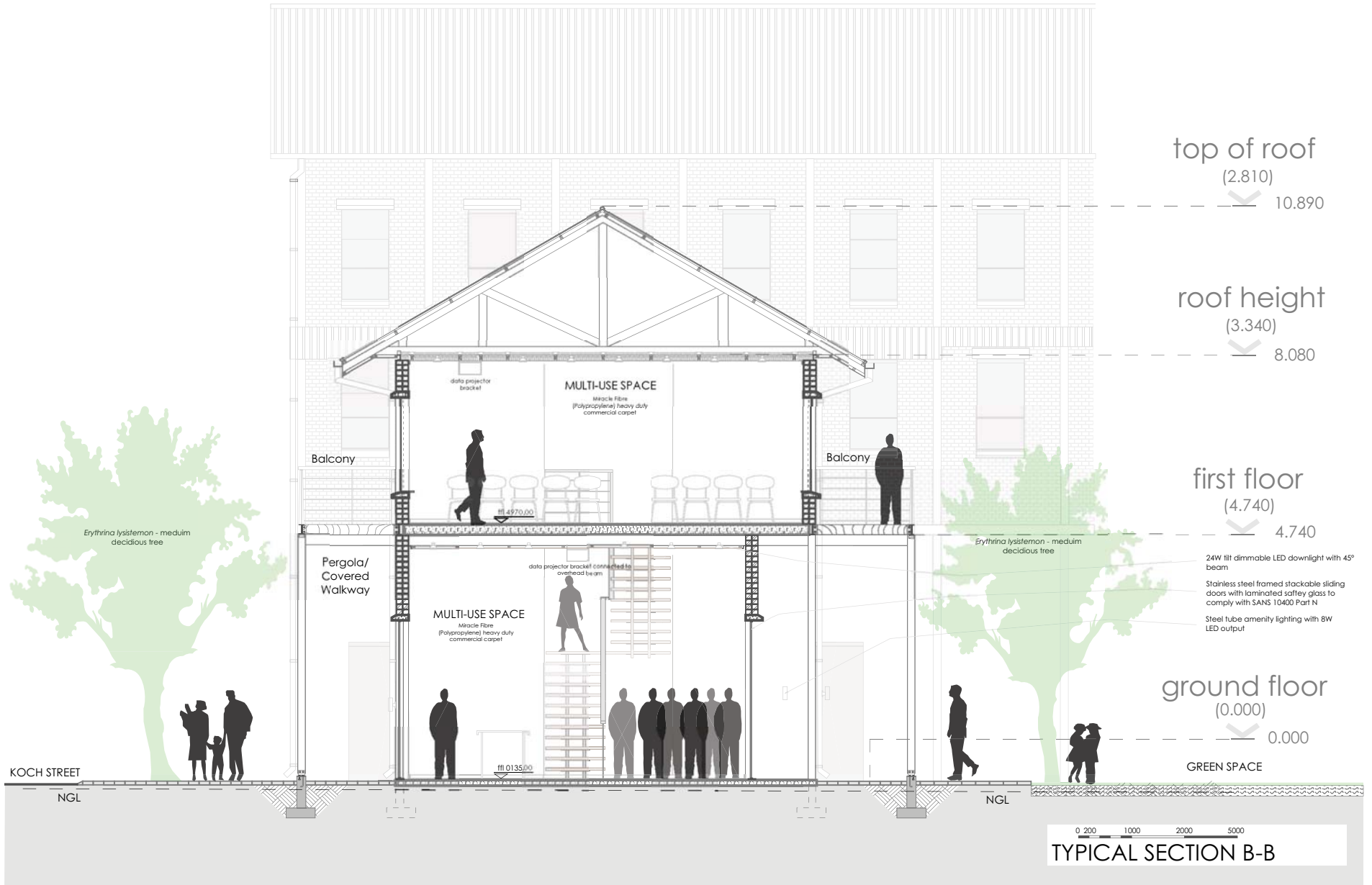
0.000

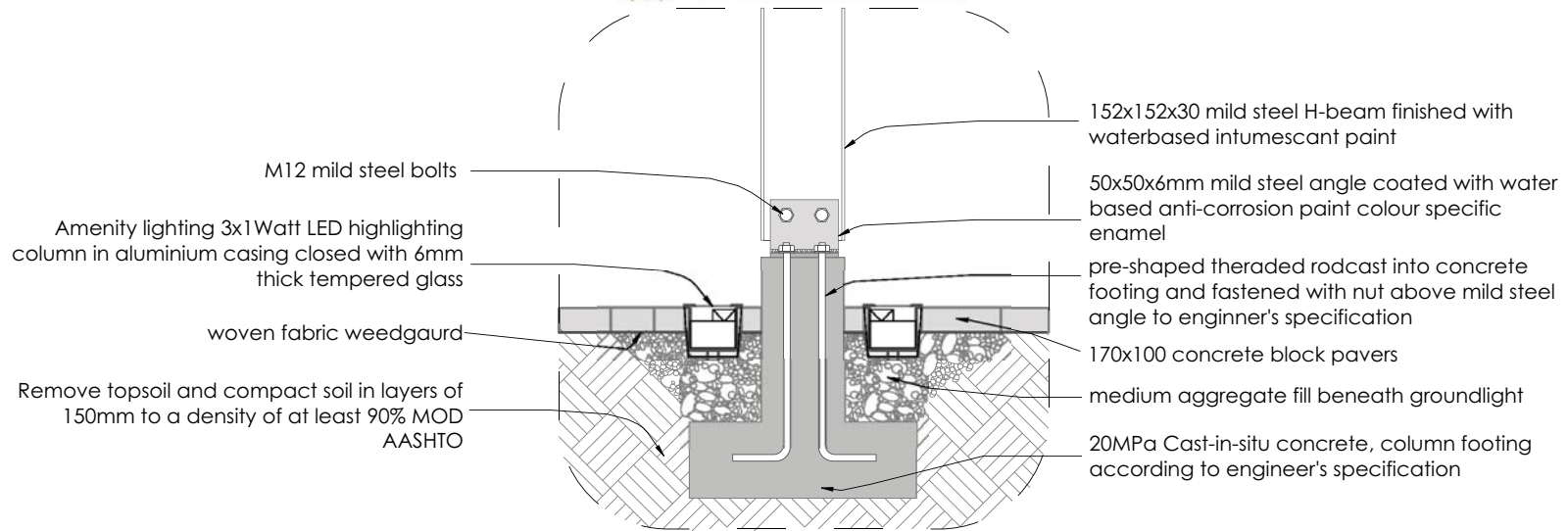
NGL 2ND AVENUE



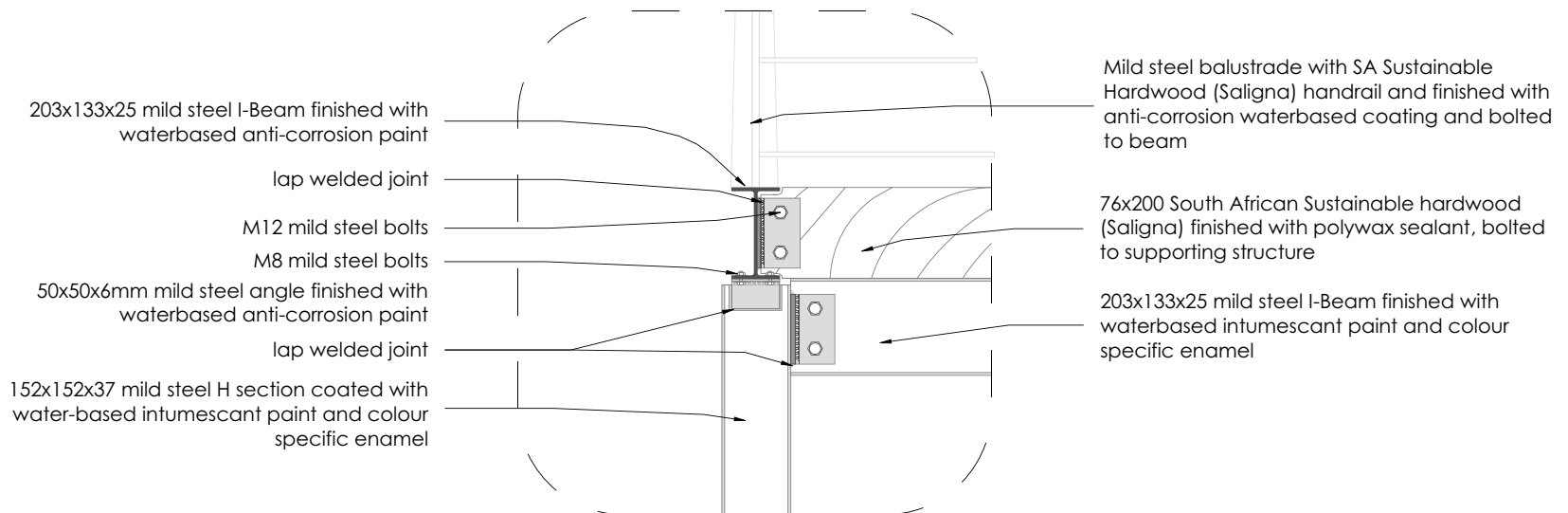
TYPICAL SECTION A-A 1:50







## DETAIL A



## DETAIL B



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

top of roof  
(2.820)

14.680

roof height  
(3.400)

11.860

second floor  
(3.400)

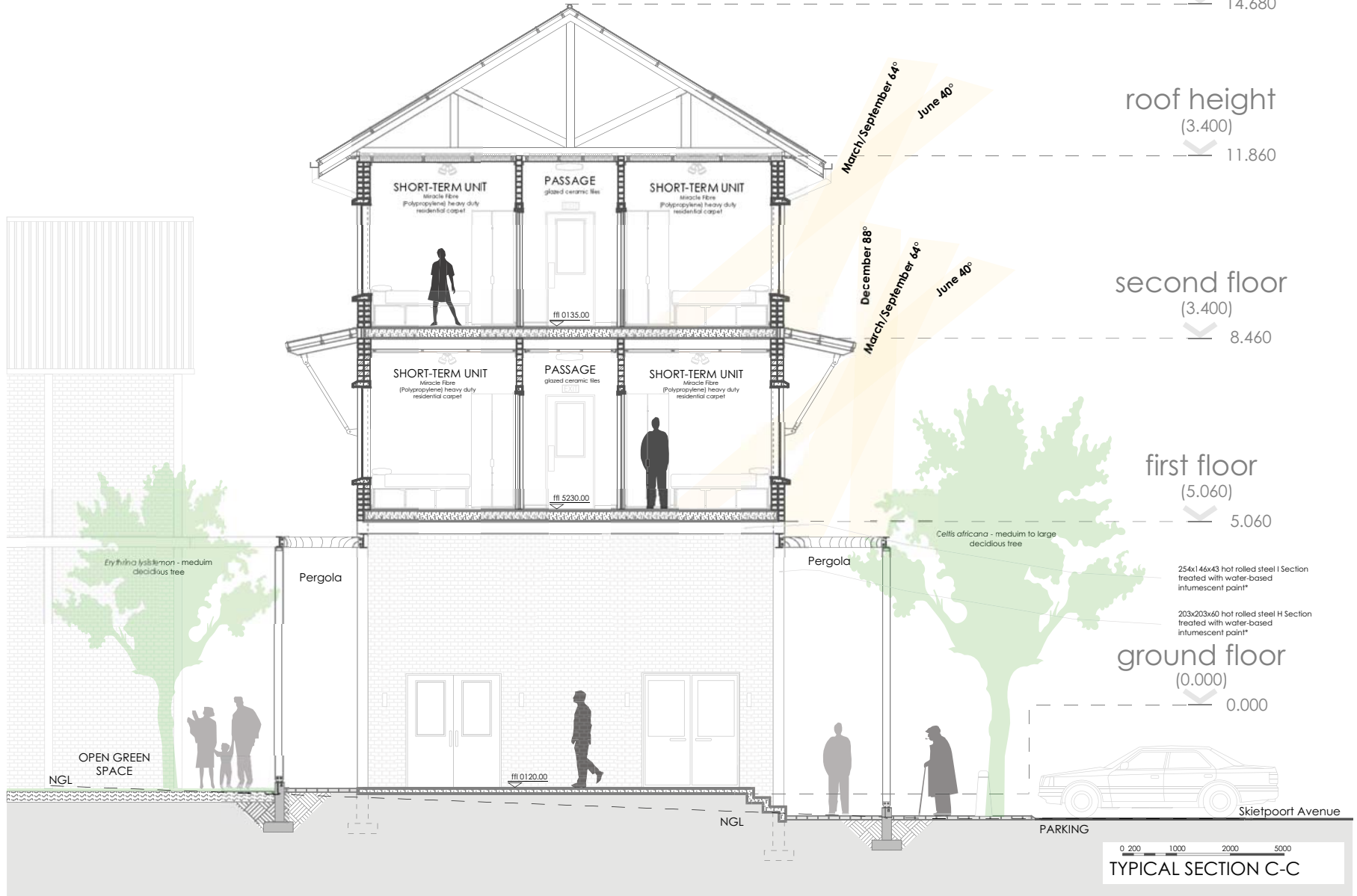
8.460

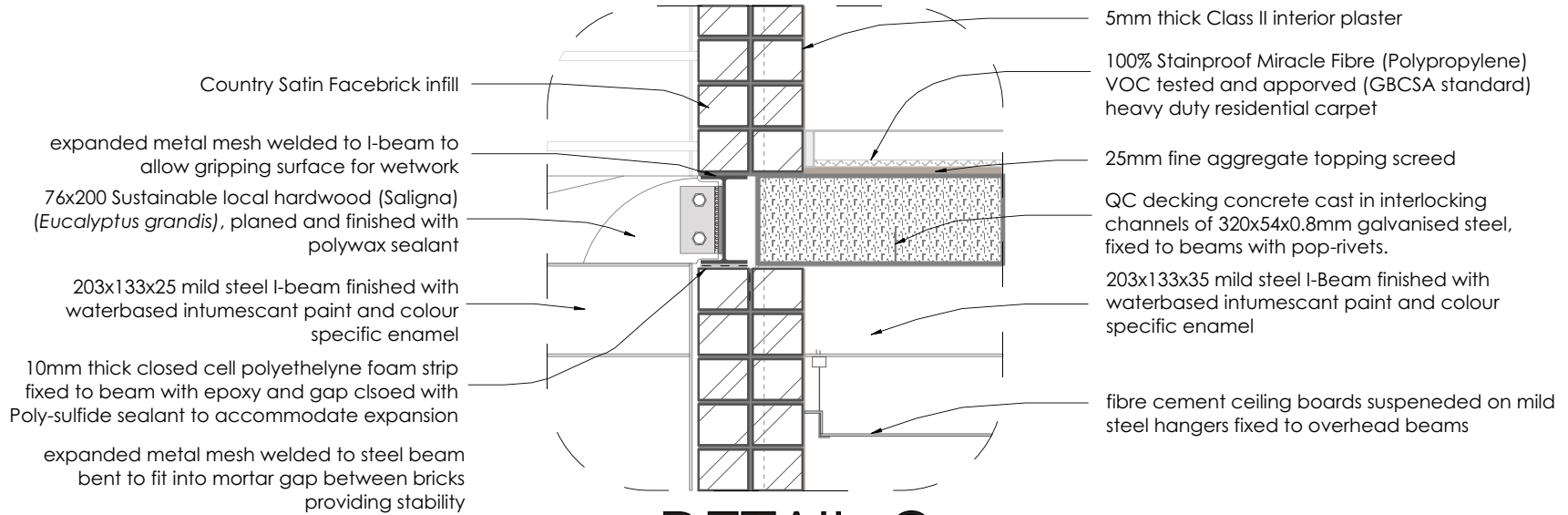
first floor  
(5.060)

5.060

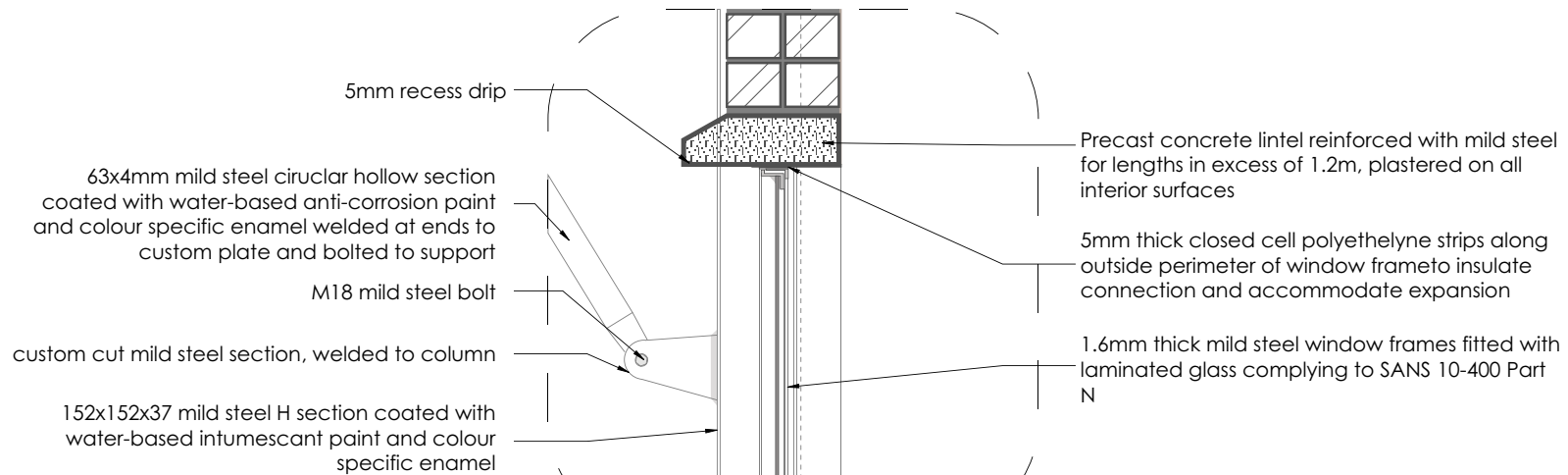
ground floor  
(0.000)

0.000





## DETAIL C



## DETAIL D



63x6mm equal sided mild steel angle section finished with water based anti-corrosion paint and fixed with lap joint weld

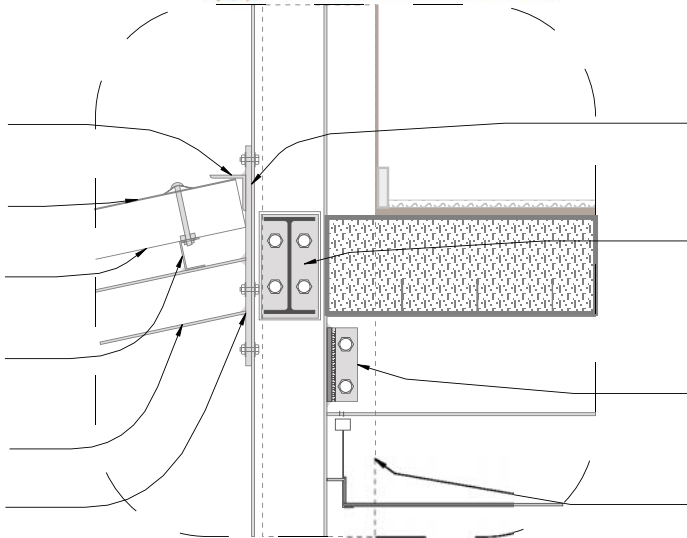
15° Galvanised steel Shading roofs with a 1370mm overhang

0.50 mm - ISQ550 Z275 Galvanised steel IBR sheeting coated with Chromadek

60x30 mild steel channel finished with waterbased anti-corrosion paint and fixed to beam with lap weld joint

100x80 mild steel I beam finished with waterbased anti-corrosion paint

butt joint welded connection



12mm thick mild steel plate finished with water based anti-corrosion paint

12mm thick mild steel plate finished with water based anti-corrosion paint, lbutf welded to I-beam and bolted with M12 bolts to H-column

6mm L-shaped mild steel section finished with waterbased anti-corrosion paint, welded to H-column and bolted with M12 bolts to I-beam

facebrick infill

# DETAIL E



NORTH ELEVATION



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

20mm topping screed with 20mm overhang on either side

topsoil to minimum depth of 200mm

expanded metal mesh welded to steel beam bent to fit into mortar gap between bricks providing stability

305x165x54 mild steel I-Beam finished with waterbased intumescent paint and colour specific enamel

80mm layer of light coloured, smooth non-absorbent natural stones of 15mm nominal size

double layer of Polymer modified bitumen membrane waterproofing on 40mm minimum thickness screed to fall minimum 1:40 and covered with a geocomposite drainage layer of minimum density of 210g/m<sup>2</sup>

Stainless steel rain water outlet

80mm Ø HDPE drainage pipe cast into concrete slab at minimum fall of 1:80

## DETAIL F



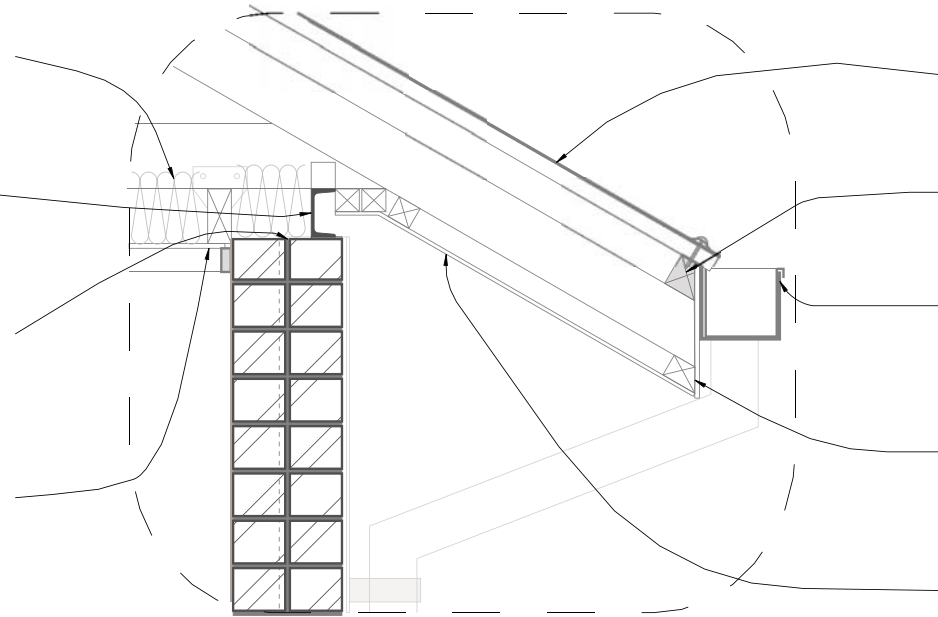


Cellulose loose fill thermal insulation material treated with fire retardant chemical laid to a depth of min 100mm

120x55x12.5 mild steel PFC coated with water-based intumescent paint and colour specific enamel bolted to supporting column with L-shape 10mm thick steel plate

250 long strip of expanded steel mesh bent into L shape and welded to underside of steel roof beam and cast into mortar of brickwall to provide stability.

6mm thick fibre-cement ceiling board nailed to 115x50 timber branderings with 35x4mm diameter galvanised serrated ceiling nails at 150mm centres



1mm IBR hot-dip galvanised mild steel roof sheeting fixed to purlins with 6mm diameter 65mm galvanised steel roof screws with galvanised steel and neoprene flanged washers

50x75 timber purlins at max spacing of 1200mm nailed to timber rafter

200x150 deep 0.8mm thick continuous hot-dip zinc-coated carbon steel sheet gutter laid at 1:500 fall onto 40x5 galvanised mild steel brackets which are fixed to timber roof purlins at max 1000mm centres

15mm flat pressed fibre-cement fascia board drilled and fastened with countersunk 5mm diameter x 50mm cadium plated screws at max 750mm centres

10mm thick flat unpressed fibre-cement eaves enclosure nailed to 50x50 timber branderings which are nailed to timber rafters

## DETAIL G



BRIDGE ARRIVAL ELEVATION

Illustration 8.1-2 Computer rendered perspectives of the exterior



VIEW OF RETAIL EDGE



COFFEE SHOP AND SQUARE



WEST ELEVATION





AERIAL VIEW



**BALCONIES AND ROOFS ON THE NORTHERN FACADE**

Opposite page

Illustration 8.3 Computer rendered perspective of the exterior

Top to bottom

Illustration 8.4 Computer rendered perspective of the exterior

Illustration 8.5-6 Computer rendered perspectives of a one bedroom living unit



**INTERIOR PERSPECTIVE OF A LIVING UNIT**



**INTERIOR PERSPECTIVE OF A LIVING UNIT**



LIVING UNIT WITH BALCONY

Illustration 8.7 Computer rendered perspective of a one bedroom living unit from the north



## MODEL PHOTOS

Illustration 8.8-12 Photographs of the final model