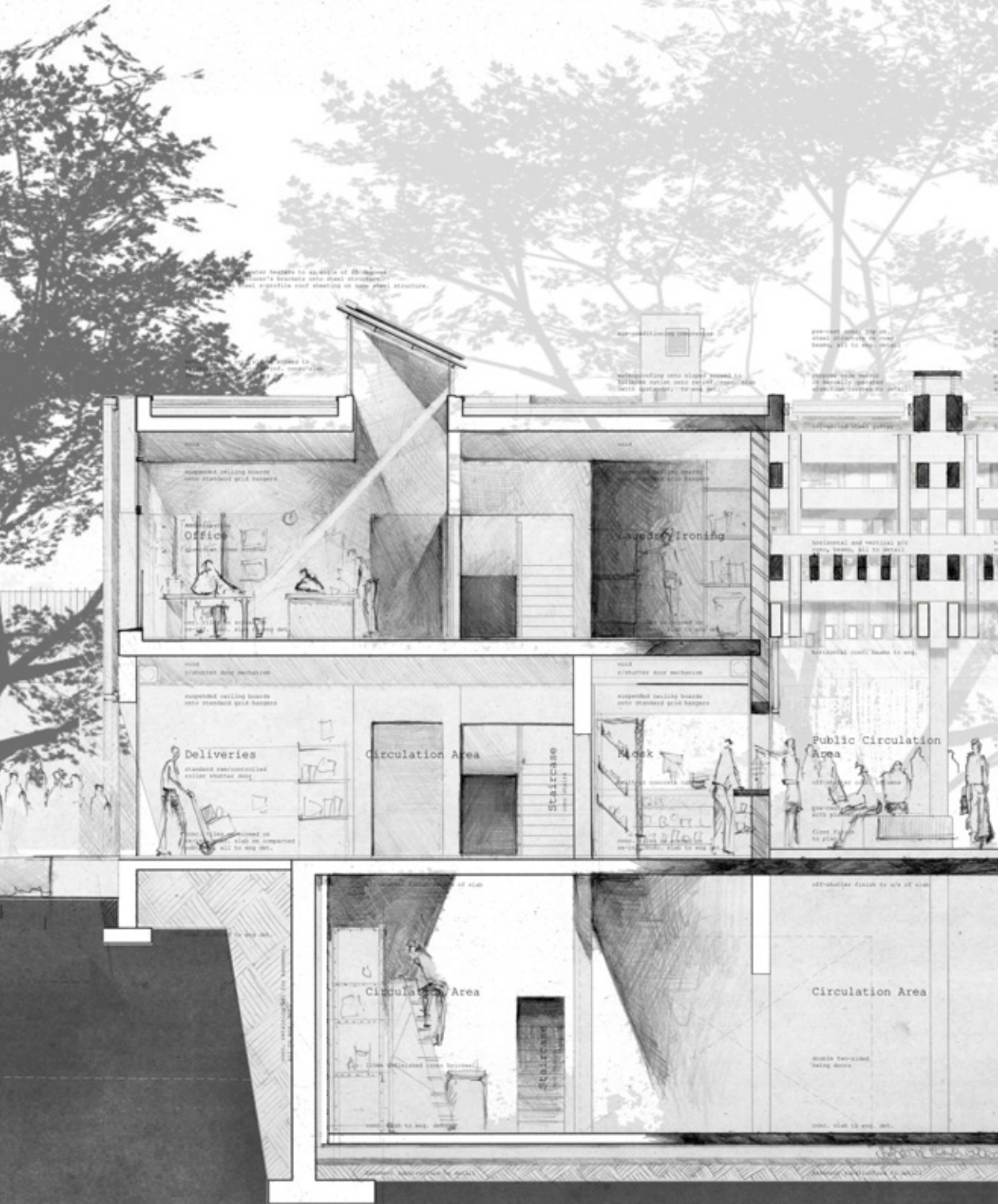


section B-B



vertical headers to facilitate of 50-degree
timber's brackets onto steel structure
and structural steel slanting on some steel structure.

wood
suspended ceiling boards
over standard grid hangers

Administration
Office

air-conditioning unit/vent

wood
suspended ceiling boards
over standard grid hangers

Laundry/ironing

pre-cast concrete
steel structure on concrete
beams, all to steel frame

wood
suspended ceiling boards
over standard grid hangers

horizontal steel beams to wall

wood
structural steel mechanism

Deliveries

Circulation Area

Staircase

wood
structural steel mechanism

Desk

Public Circulation Area

suspended ceiling boards
over standard grid hangers

suspended ceiling boards
over standard grid hangers

horizontal steel beams to wall

wood
structural steel mechanism

Circulation Area

Circulation Area

wood
structural steel mechanism

off-shoot deck to top of steel

wood
structural steel mechanism

double two-paned
wing doors

wood
structural steel mechanism

wood
structural steel mechanism

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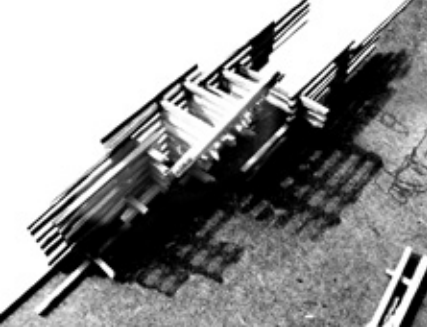
wood
structural steel mechanism

wood
structural steel mechanism

wood
structural steel mechanism

wood
structural steel mechanism

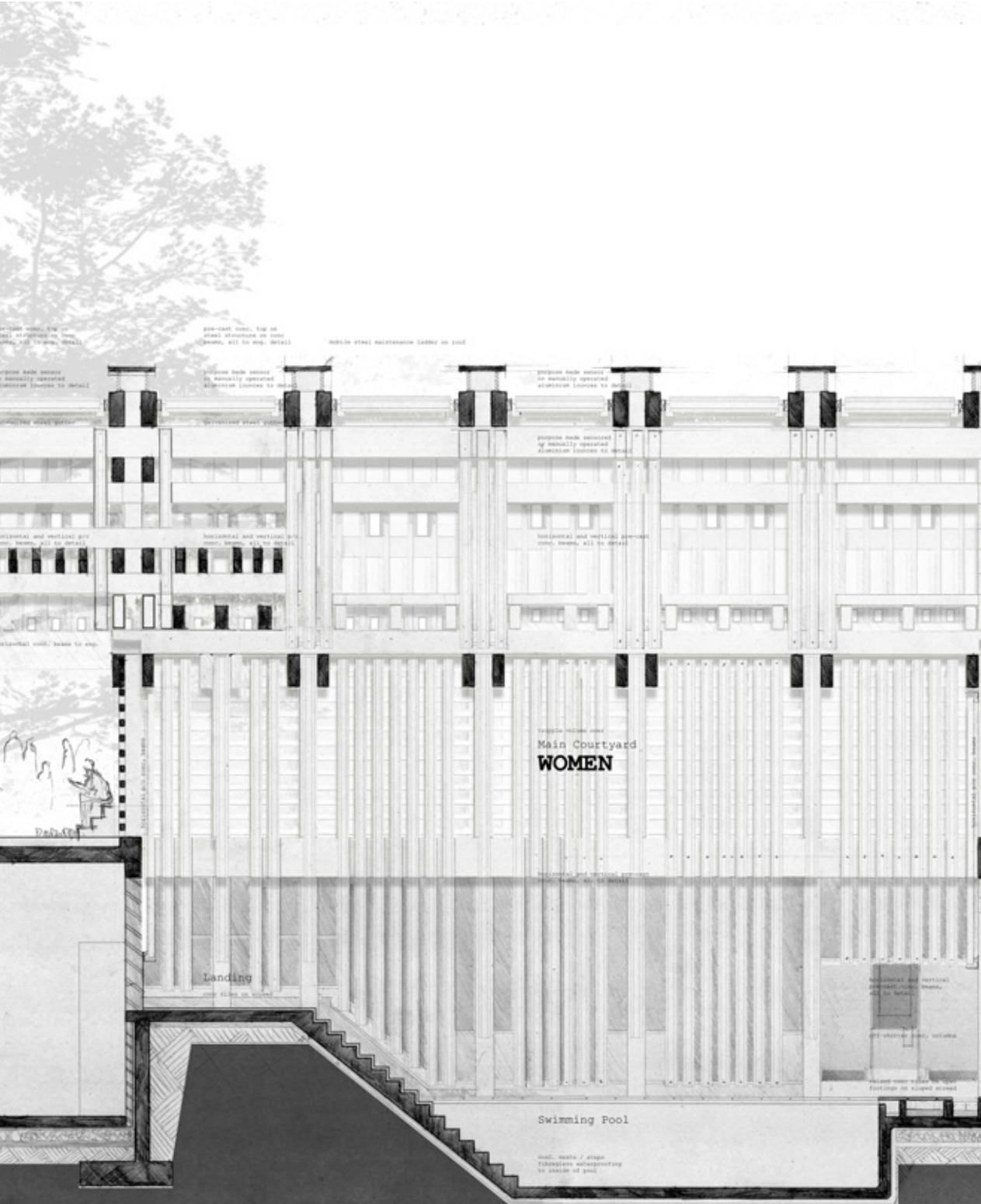
wood
structural steel mechanism



Beam span (l) relative to structural depth (d) expressed as a ratio of l/d between 20-30. For prestressed concrete beams.

Beam span (l)	Beam structural depth (d)	Beam depth (mm)
7 150	358,5	360
2 700	135	135
3 500	175	175
4 500	225	225
10 700	535	585
5 300	265	265
5 800	290	300
1 000	50	50

Figure 106. (opposite, below and next page)
Collage including section b-b. nts.





Conc. gutter calculations

gutter catchment area 111,54 sq.
@ 150mm gutter cross section / 1 m gap
= 14775 sq square
@ 1400mm gutter width
= 1055mm gutter depth

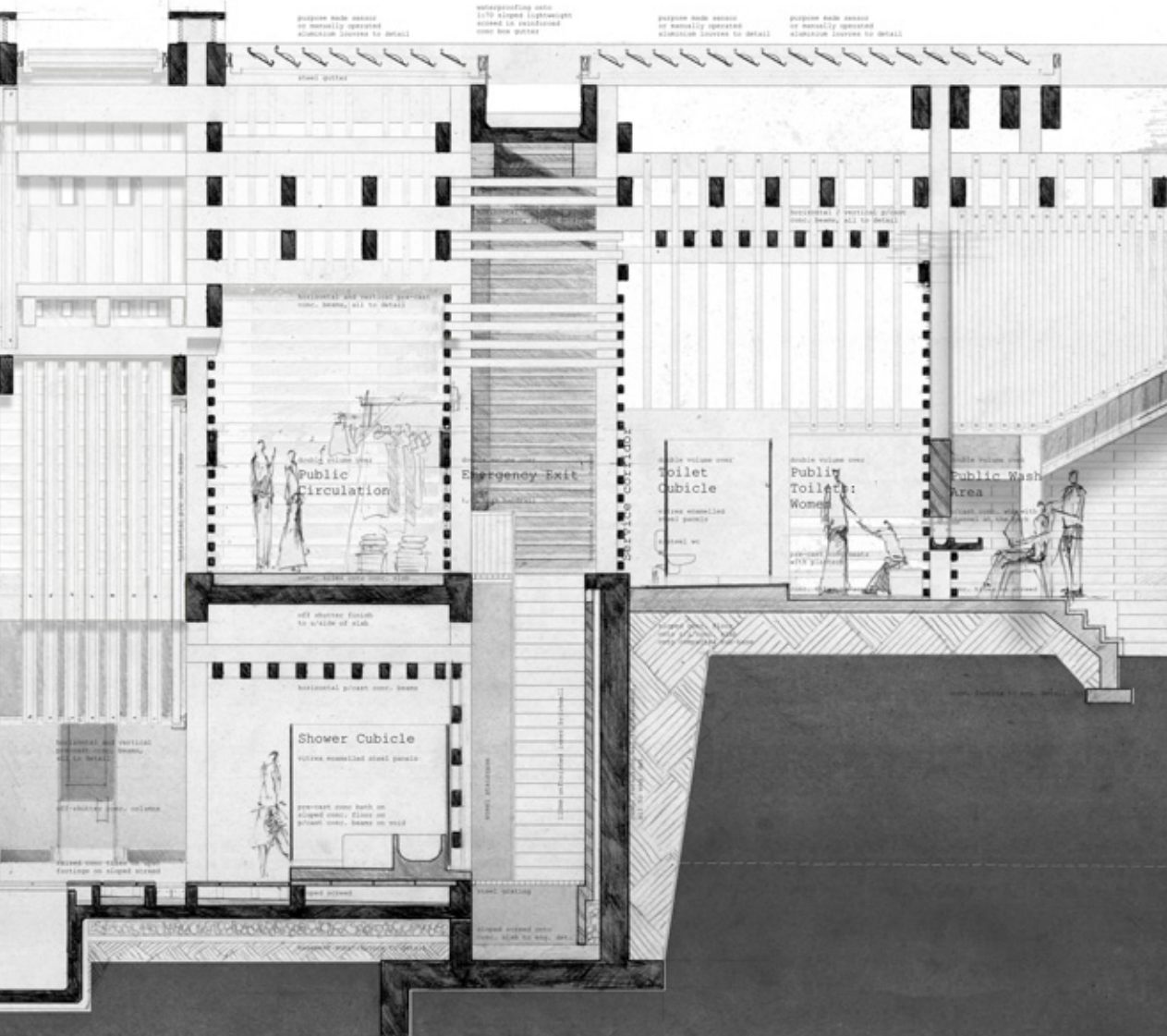
pre-cast conc. top on
steel structure in conc.
beams, all to spec. detail

waterproofing with
1:2.75 sloped lightweight
concrete in reinforced
concrete gutter

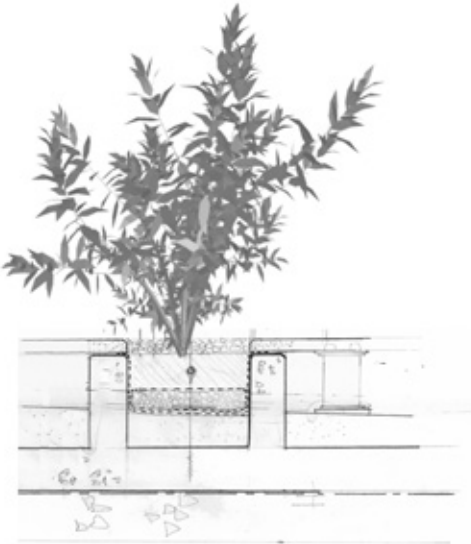
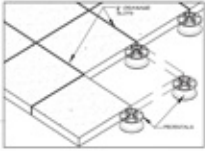
precast made concrete
or manually operated
slushpave louvers to detail

precast made concrete
or manually operated
slushpave louvers to detail

steel gutter







PLANTER DETAIL

50 gravel layer on 150 growth medium layer on 80 gravel drainage layer with drainage pipes inlaid, on cement screed, grate/slab layers as indicated by dashed line.

- 40x40x100 porous concrete tiles on 1000 footing on raised floor with 10mm spacing
- ceiling screed to fall 1:75 to drain
- porous concrete floor slab with openings, fixed gap, to slingscrew
- 5,25 polypropylene DWP
- 10 cement rendering layer
- 100 surface concrete with gratings to drain
- 10 cement rendering layer
- grates through openings placed in ridges of cement screed
- external fill compacted in layers max 100mm to 200 mm, 90000

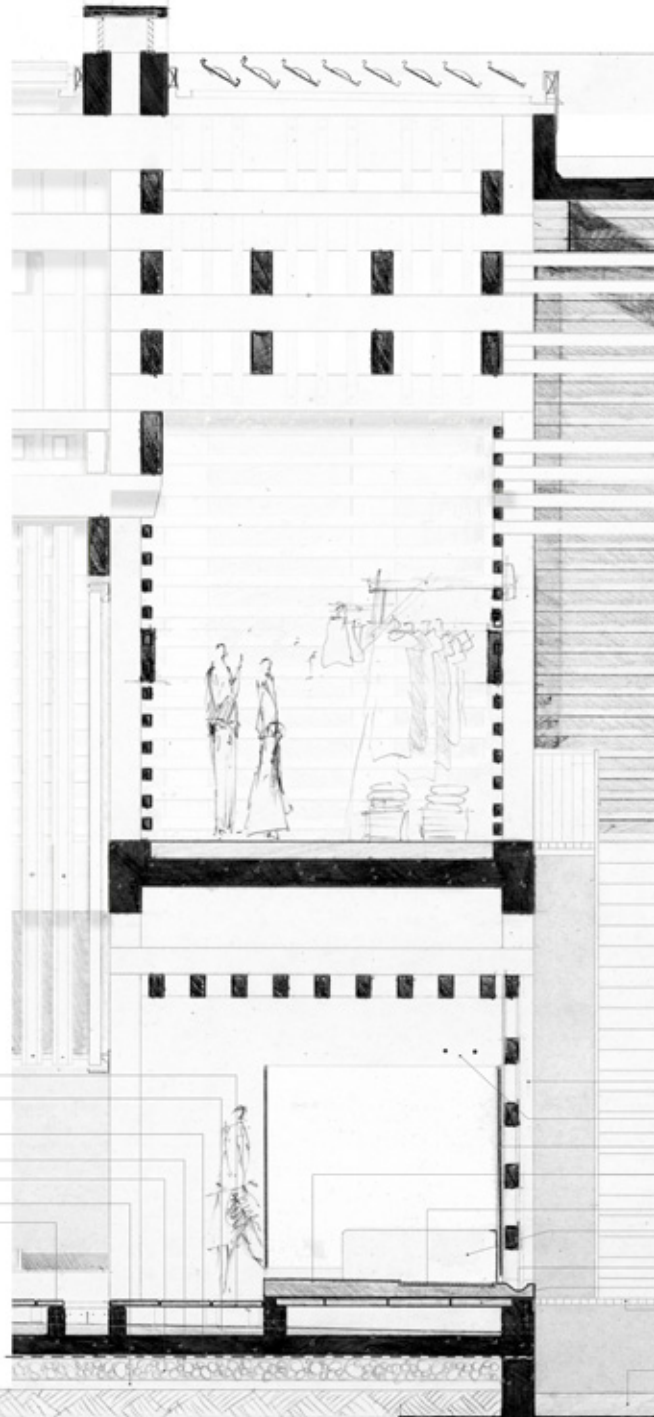
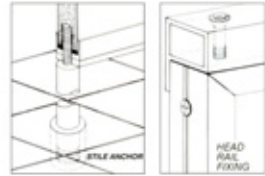
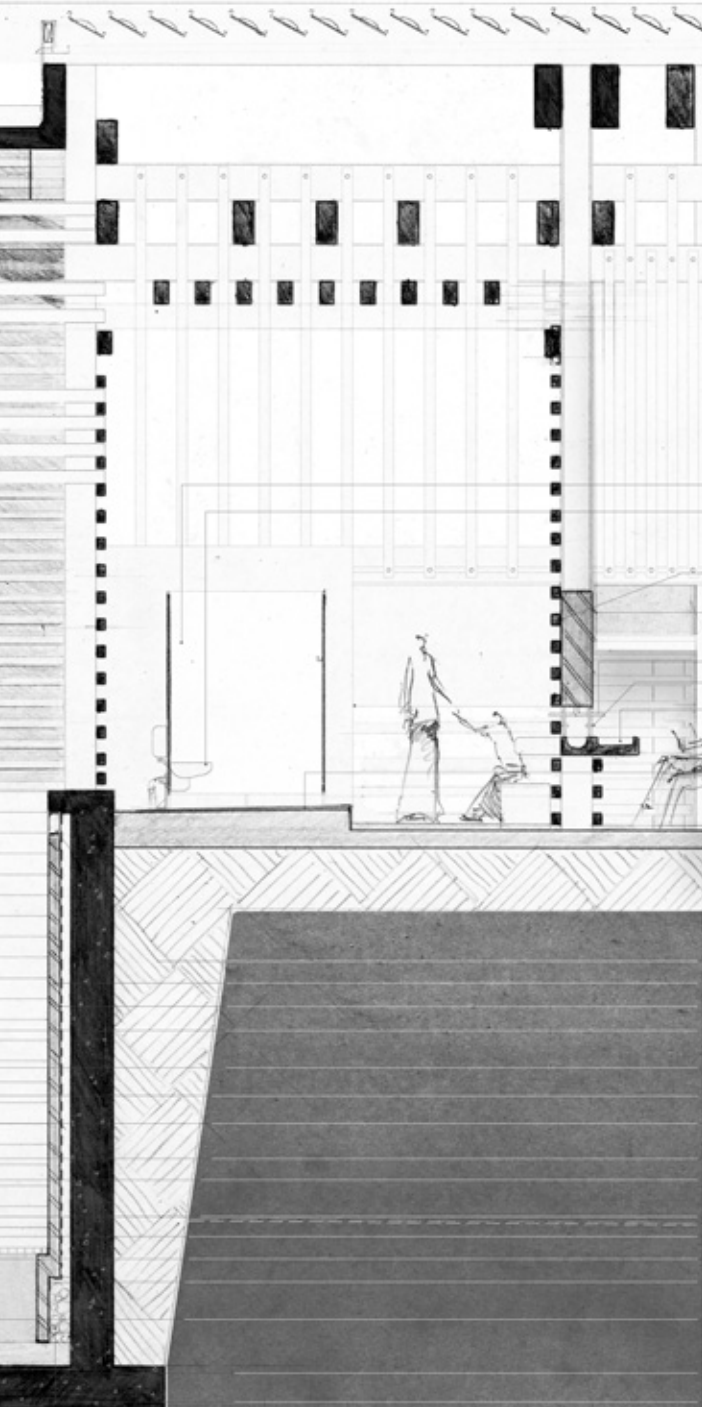


Figure 107. (including opposite)detail F. nts.



- Vertical 18.1mm stainless steel exterior wall system on stainless steel Partings
- Vertical stainless steel wall as per noted to floor, stainless as service required, 18.1mm
- 100x200 precast prestressed concrete beam fixed to column as detail
- 1mm galvanized galvanized steel plate fixed to concrete beam with steel brackets, membrane to provide service access
- Vertical stainless steel 100 flow stainless floor
- Infrared sensor to operate faucet hidden steel plate
- 100x100 concrete basin, open drainage to service channels with UPVC drain to separate retention system
- 100x100 concrete basin floor to 1/10 fall to UPVC floor drain to mainline sewer, floor covered with fibreglass grout surface coating
- ventilation beam
- 100 memory infrared dry skin
- 0.25 polystyrene 100 to inside of masonry skin
- 100x100 precast prestressed concrete beam treated with galvanneal fibreglass based spectral Dopacolor and resin, 1/10 fall to water collection channel
- Vertical stainless steel 100 flow stainless shower head
- Vertical 18.1mm stainless steel exterior wall system on stainless steel Partings
- 100x100 concrete shower cabinet floor treated with galvanneal fibreglass based spectral Dopacolor and resin, 1/10 fall to water collection channel
- 100x100 concrete bench treated with galvanneal fibreglass based spectral Dopacolor and resin, 1/10 fall to water collection channel
- water collection channel with 100 UPVC drain to 100 UPVC pipe to water storage tank
- 100x100 precast prestressed concrete plate as precast shower
- 100x100 steel mesh wetroom
- reinforced concrete retaining wall with membrane 150mm, membrane to be covered with galvanneal to prevent corrosion, floor open to membrane
- 100x100 drain floor to 1/10 fall to pump
- 100 surface concrete with grout to drain
- grout through grout plate in valley of cement screed



section C-C

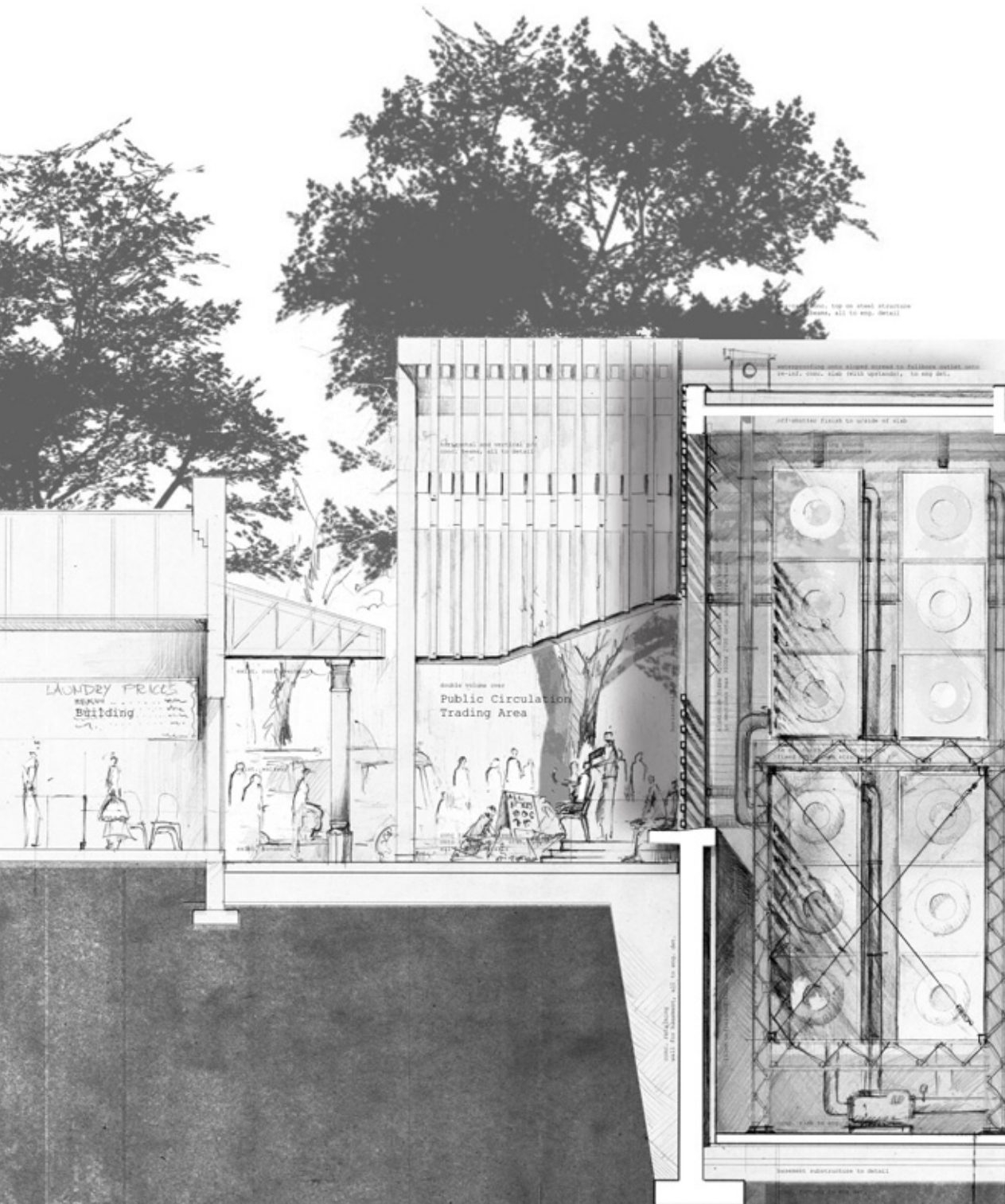
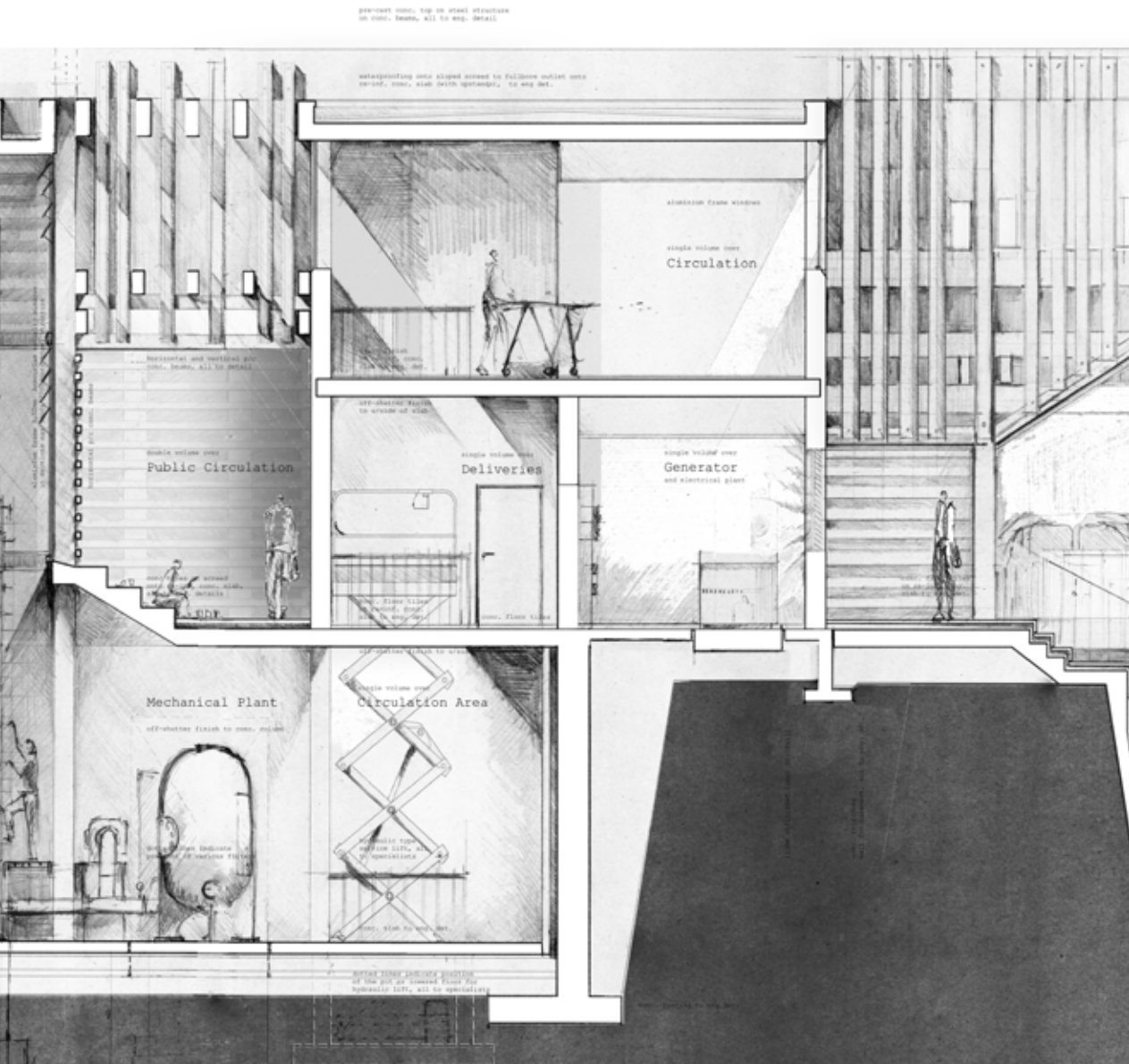
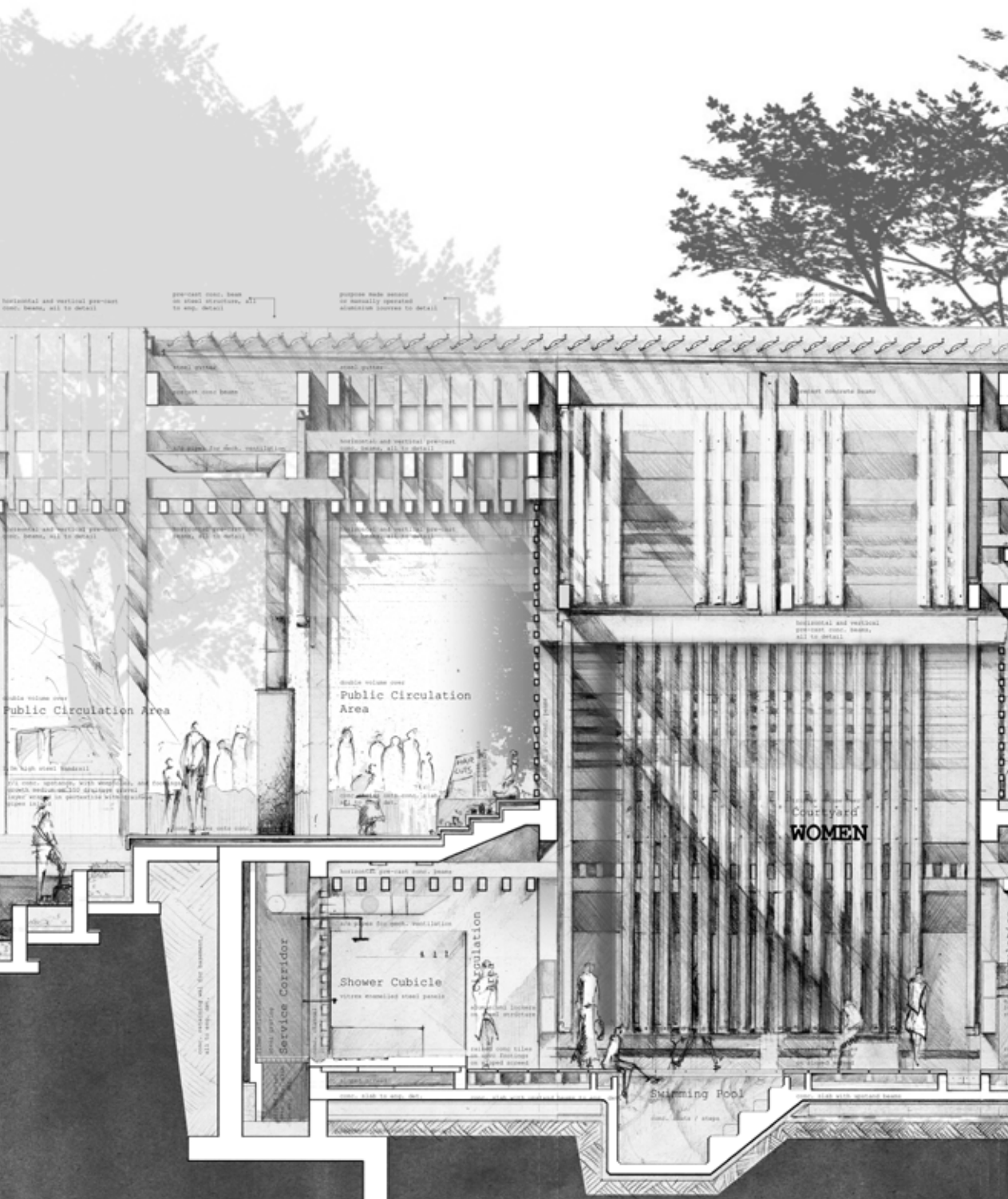


Figure 108. (opposite, below and next page) section c-c. nts.





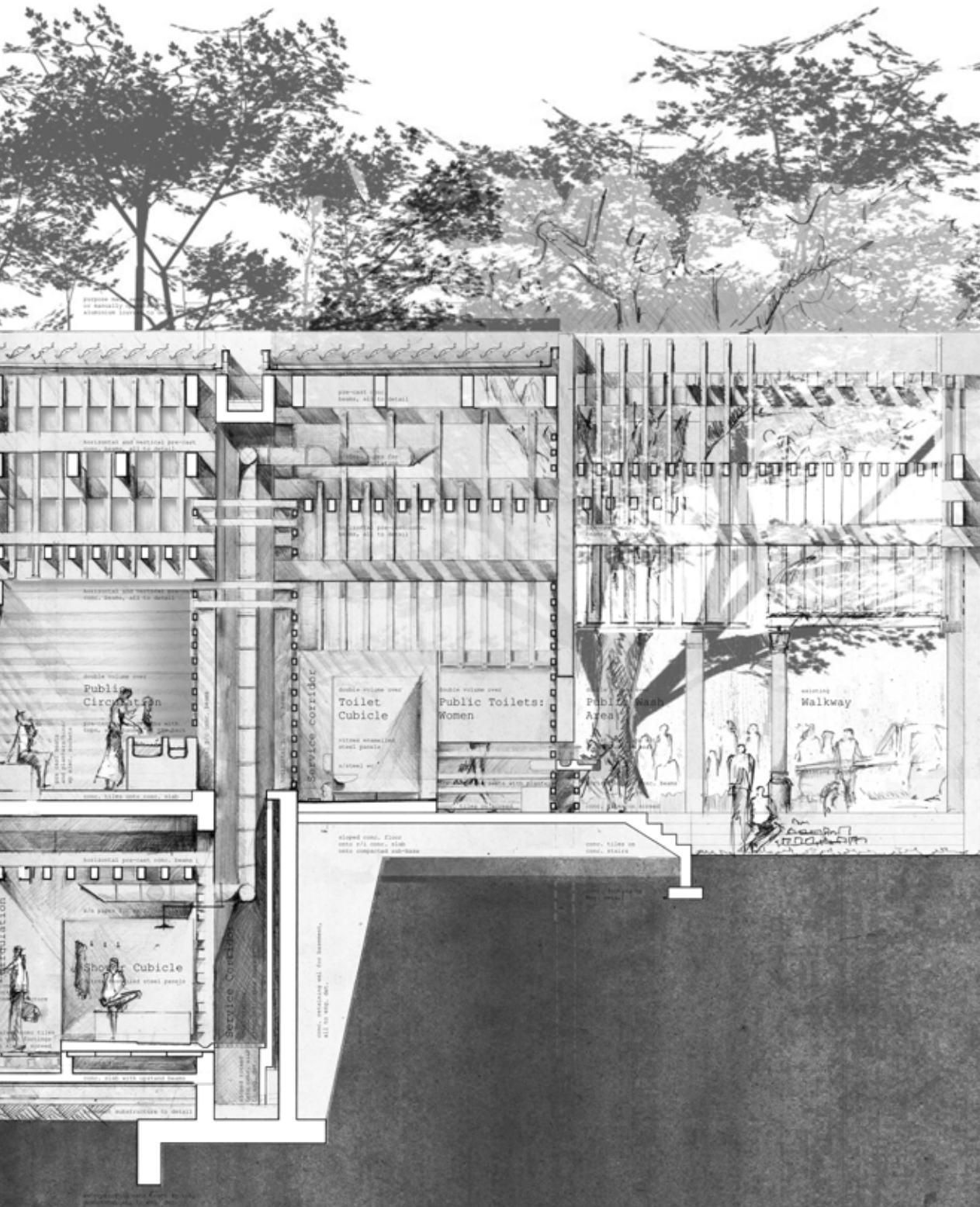
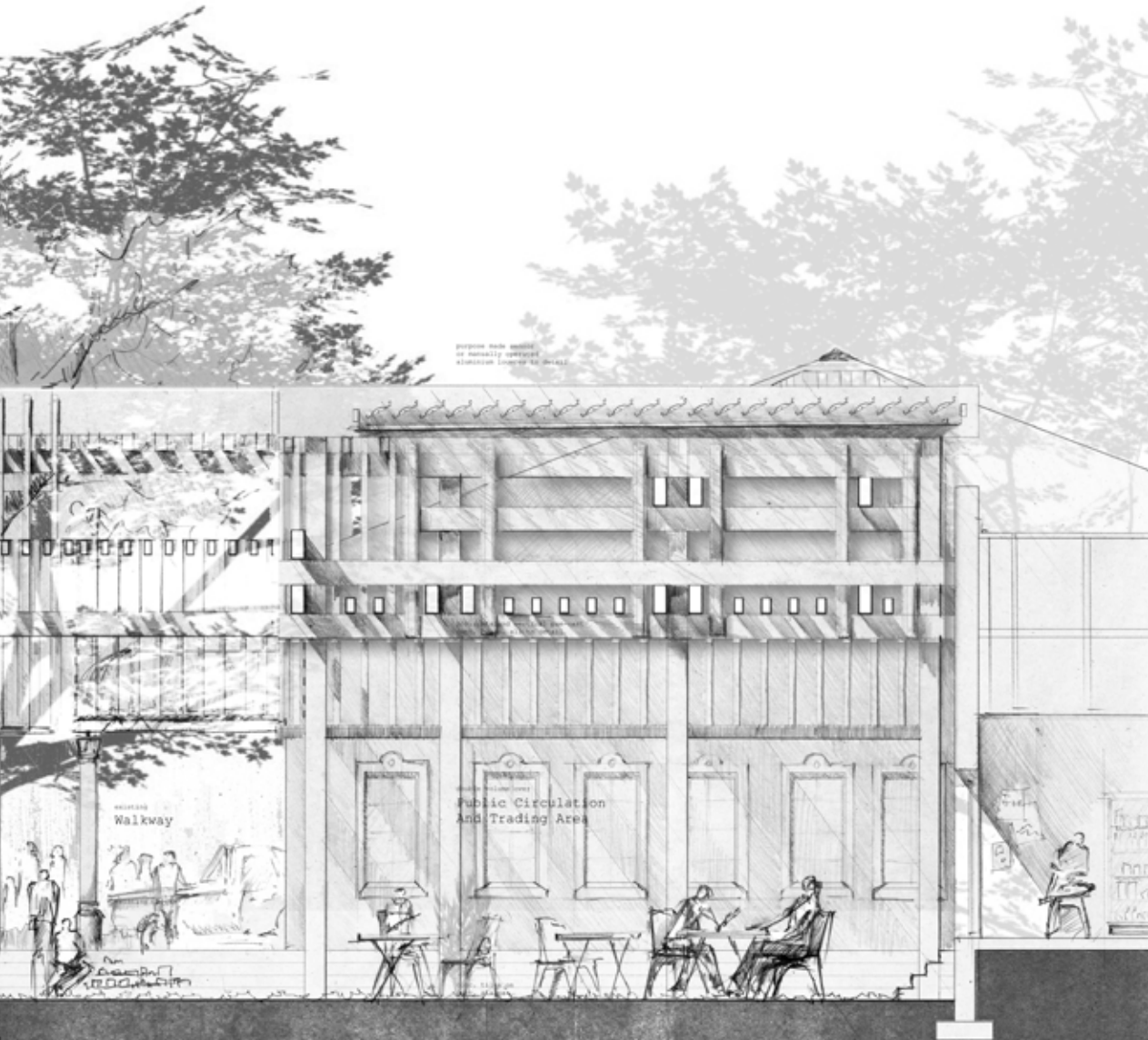
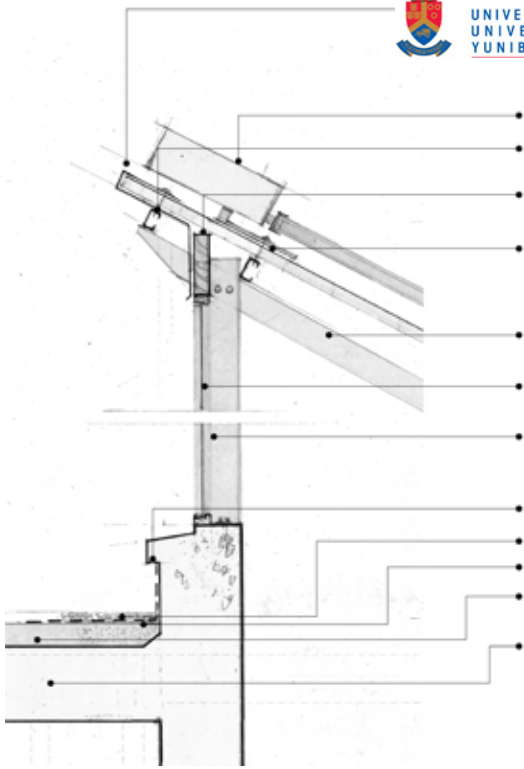


Figure 109. (opposite) details
E,F,G and H. nts.





vacuum tube solar water heater at 25 degree angle, facing north mounted on roof construction. water heater fixed to manufacturer's bracket, bracket fixed too steel purlin through roof sheeting with roof screws



75x50x20x2,0 steel purlin fixed to steel beam with welded cleat @ max 900 cc spacing

50x200 SAP infill beam bolted to steel posts flashing to overlap bolted connection

0,6 galvanized steel s-profile galvanized steel roof sheeting fixed to steel purlins with roof screws

two 100x50x25x2,0 galvanized steel unequal angles as roof beams bolted to steel post

6mm laminated glass in aluminium frame installed to manufacturer's spec

76,20x38,10x1,60 galvanized cold rolled rectangular steel tube as post, fixed to concrete upstand with welded brackets and chemical anchor bolts

drip

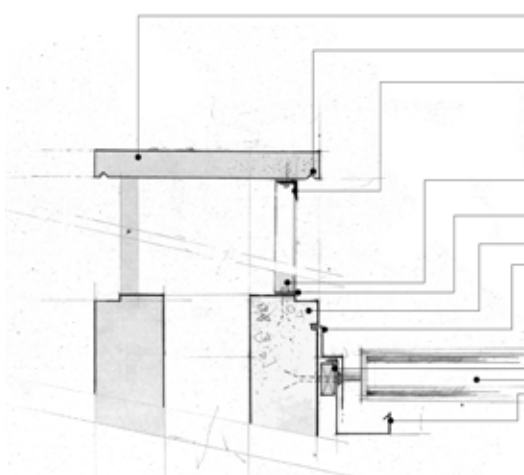
light colour gravel

0,25 polyolefin DPM

min 25 lightweight insulating screed to fall 1:70 to fullbore outlet

reinforced concrete slab to engineer spec.

detail **F**
nts



800x100 precast concrete planks onto steel frame, unfinished.

drip joint

70x70x6 galvanized hot rolled steel equal leg angle to form welded frame onto which concrete planks are fixed using screws with expansion plugs. railing for puposes of securing maintenance workers welded onto steel frame

Expansion bolt to fix welded steel frame to precast concrete beam

silicone seal

250x585 prestressed precast concrete beam

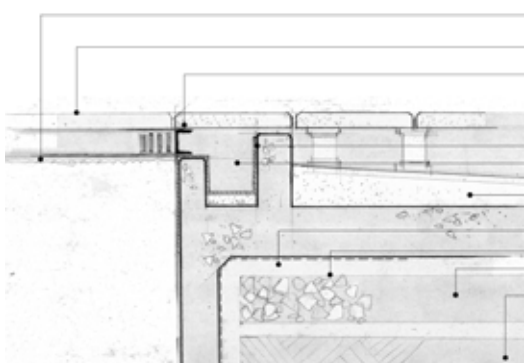
0.6 galvanized steel flashing set in recess in concrete beam to be filled with silicone. flashing fixed to timber support beam with roof screws.

75x150 SAP support beam fixed to precast concrete beam with countersunk expansion bolts @ 1000cc

aluminium louvre with translucent insert to manufacturer

0.6 galvanized steel gutter

detail **F**
nts



water level

490x490x50 precast concrete raised floor tiles on uPVC footing

76x102x6,7 perforated stainless steel channel fixed to underside of concrete floor tile with chemical anchor bolts @ 2 per tile

concrete floor tile to rest on uPVC mountings set on concrete upstand

fibreglass pool waterproofing and finish to specialist

pool overflow channel catchment with floor at fall min 1:70 to drain to pump

cement screed at min fall 1:70 to drain concrete floor slab, with upstands, unfinished, to engineer

0,25 polyolefin DPM

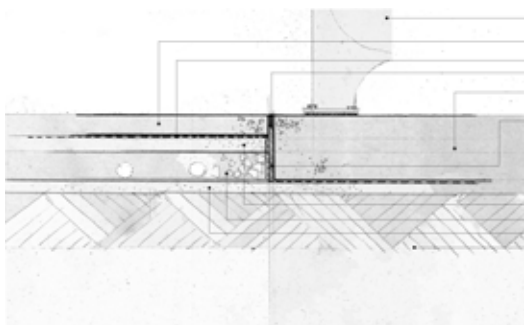
cement blinding layer

200 no-fines concrete with geoppes to drain to sump

cement blinding layer

selected fill compacted in layer max 150 to 95% mod-AASHTO

detail **G**
nts



water filter to specialist fixed to concrete floor with expansion bolts, on engineer bearing pad

175 concrete floor slab, pqsification, to engineer spec.

5,25 polyolefin DPM

lower joint flash strip fixed in channel joint with silicone

refinished concrete floor slab, pqsification, to engineer spec. isolated from rest of floor with lacromon joint.

20 perforation joint tiles

cement blinding layer

200 no-fines concrete layer with geoppes to sump

cement blinding layer

selected fill compacted in layers of max 150 to 95% mod-AASHTO

detail **H**
nts



Figure 110. (left) collage of journey through Marabastad from Belle Ombre rail station.

Figure 111. (right) photograph of building in Boom st.

Figure 112. (below) bathhouse in Boom st context.





Figure 113. (right) photographs of experiences directly related to bathhouse site.

Figure 114. (below) illustration of area between new and existing.

Figure 115. (below right) sheltered space.

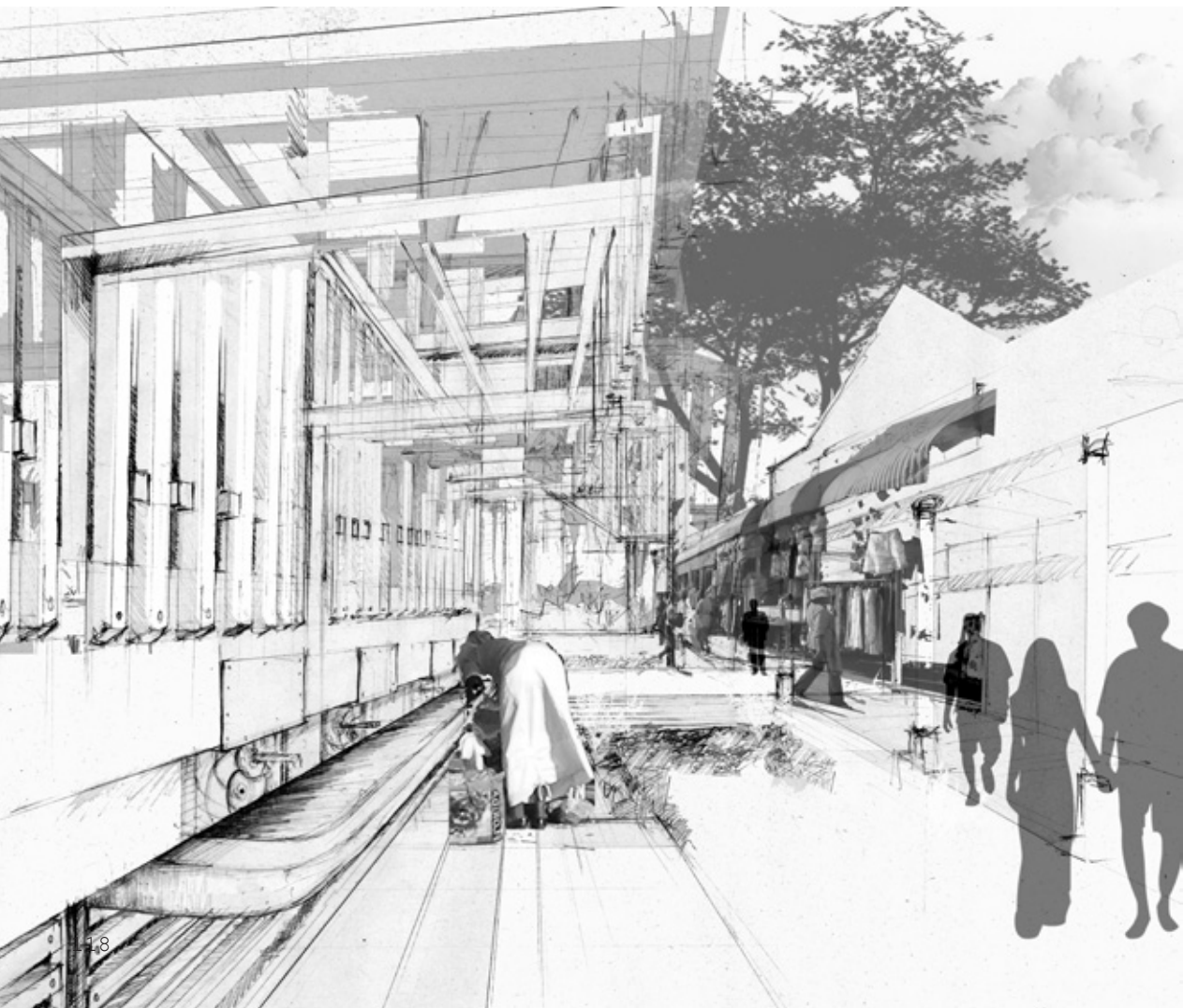
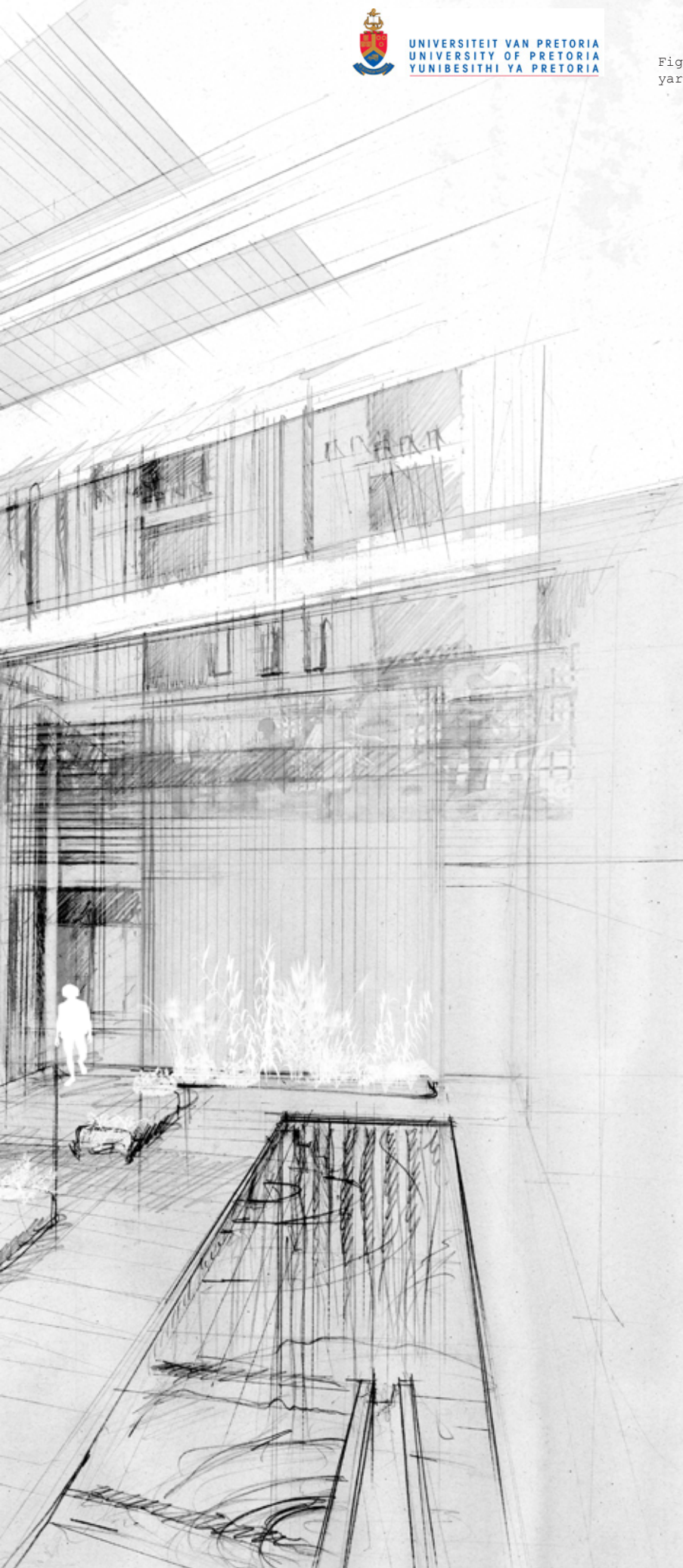






Figure 116. Central courtyard space



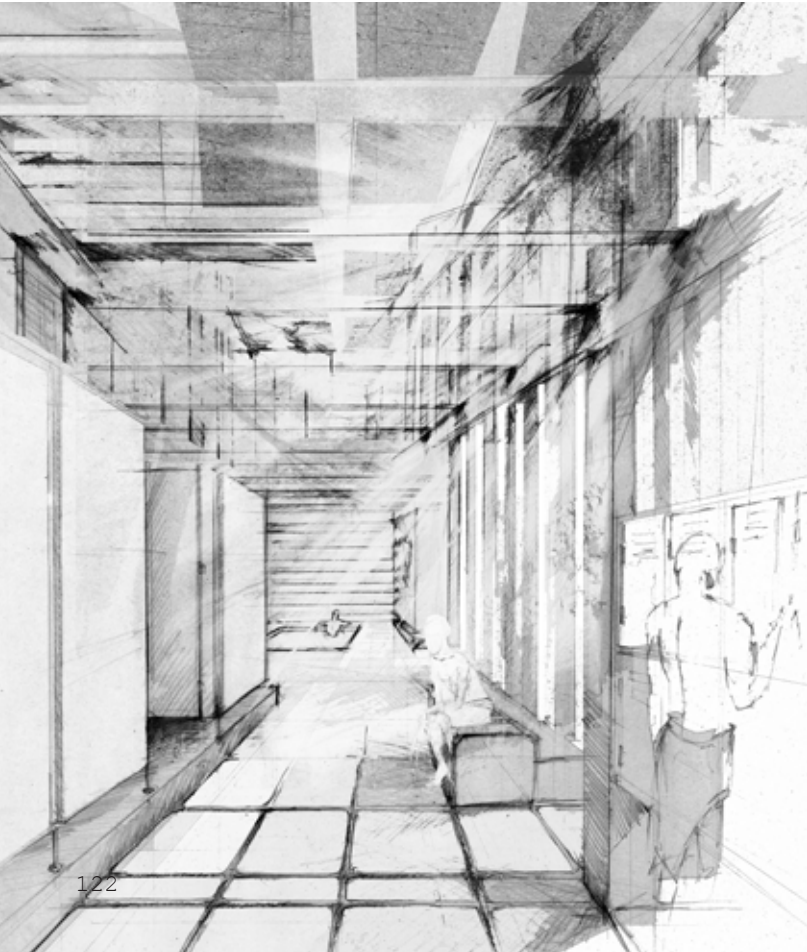
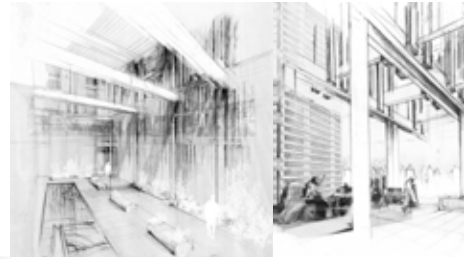


Figure 117. space between shower cubicles and courtyard.

Figure 118. (top and opposite) collage of journey from shower to Belle Ombre rail station.

