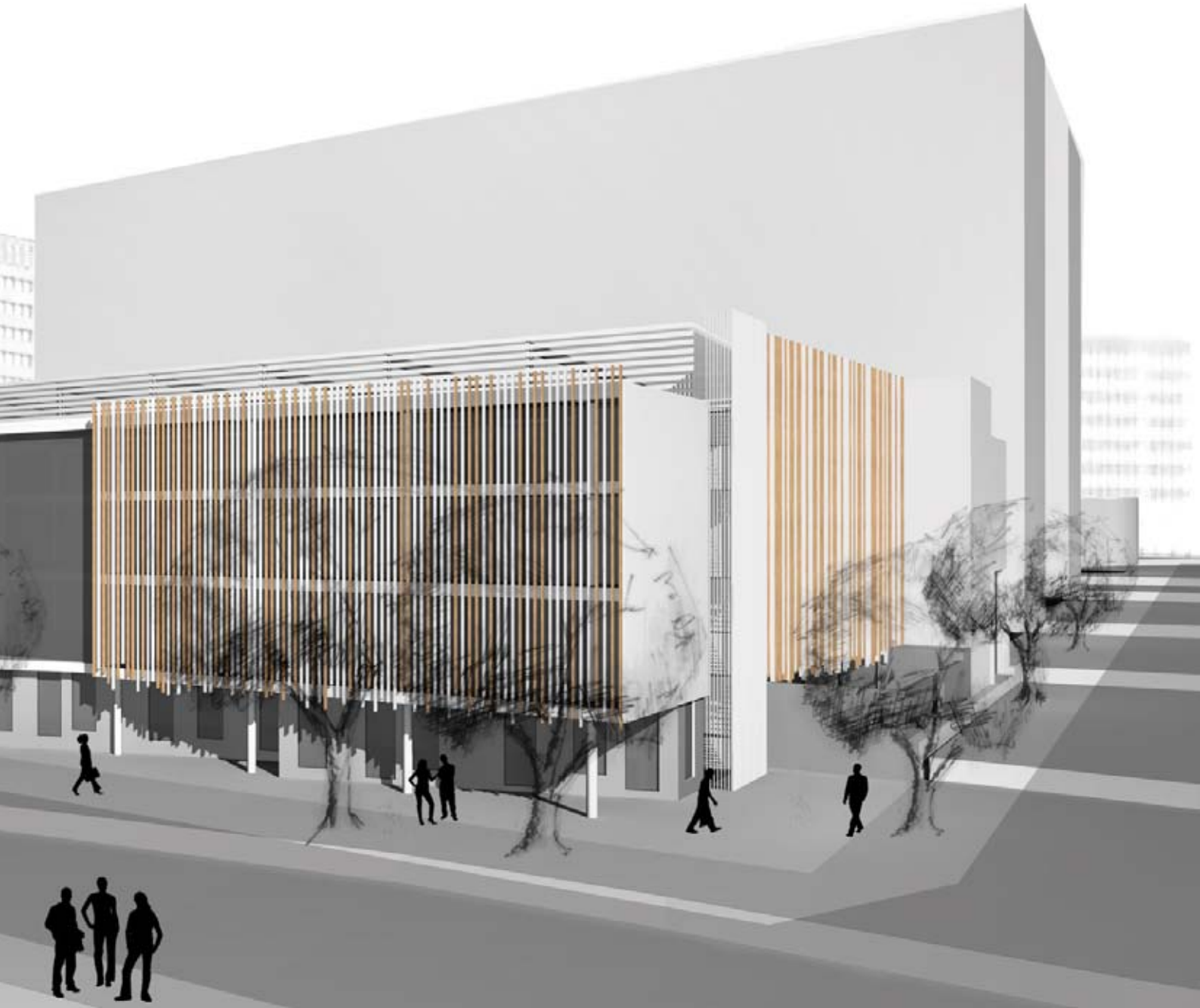
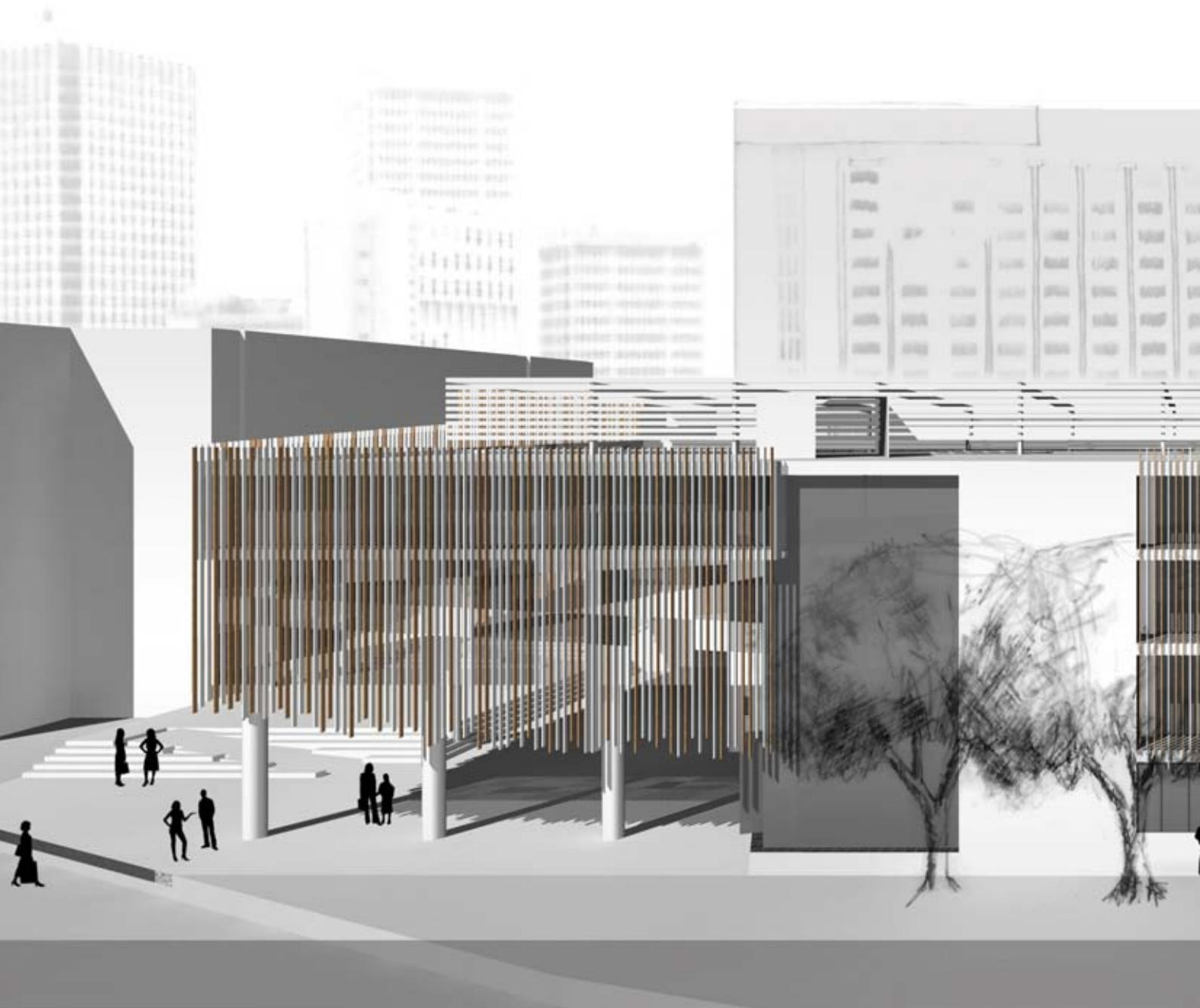
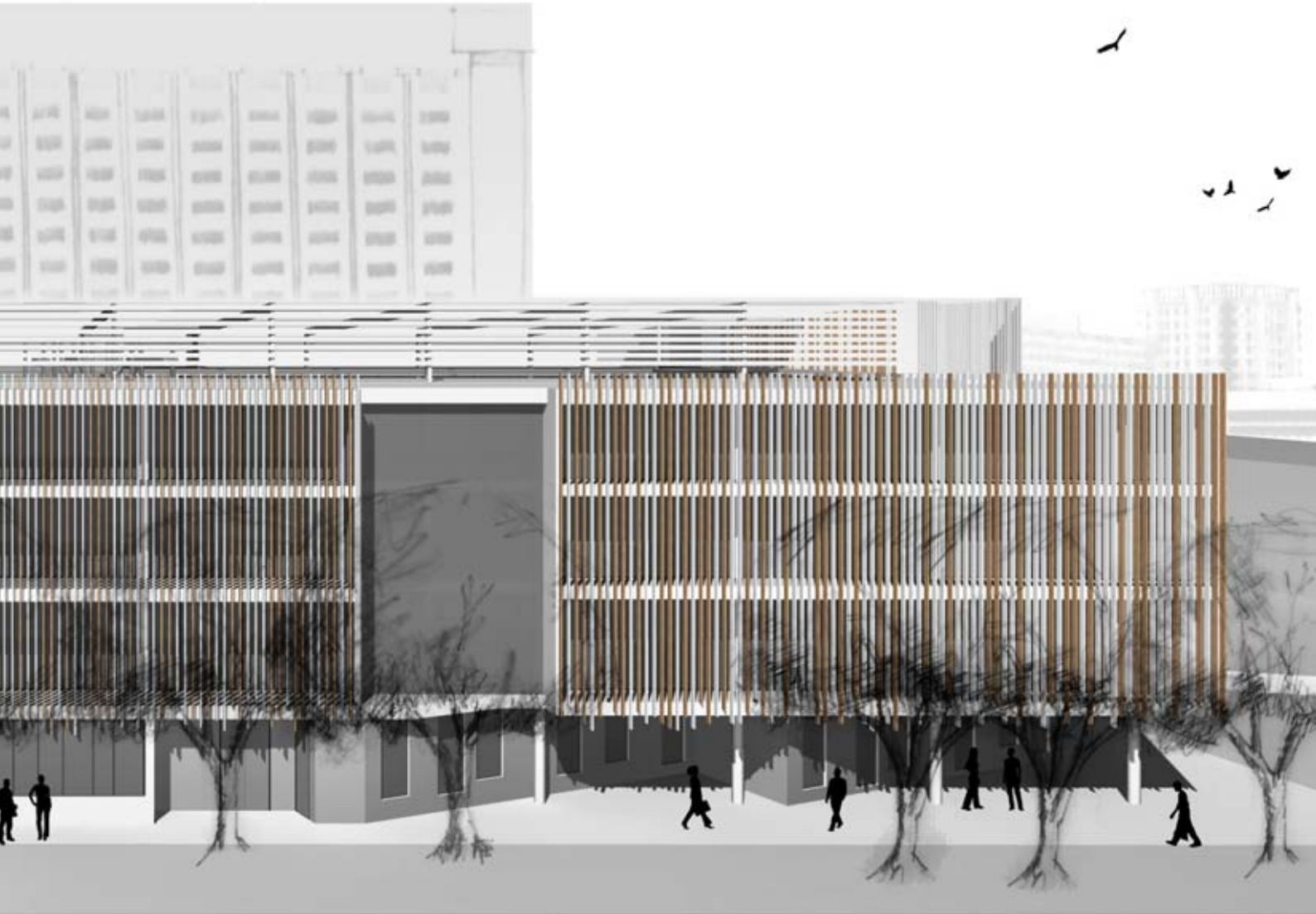


# Chapter 9. Technical Drawings









description:

concrete:

25 MPa off-shutter reinforced concrete to sabs .., shuttering oil for concrete MNC-T6 applied to the inner face of shuttering before the casting of concrete to achieve a smooth finish. all edges 45° chamfer @ 15. 10 polystyrene movement joint between slab and brickwork

screed:

screed interior - 40 min. level screed with square wall connection.

screed exterior - 25 min. screed with fall of 1:70 towards outlets. 45° chamfer of 40 x 40 at all flatroof upturns.

water proofing:

water proofing a - 3 torch-on waterproofing system to sloped screed, continuous with specified side laps, end laps, turn-ups and accessories. paint exposed concrete with aluminium paint

waterproofing b - waterproofing membrane & system to manufacturer's specifications to top of parapet walls, window sills, & flashings

flooring:

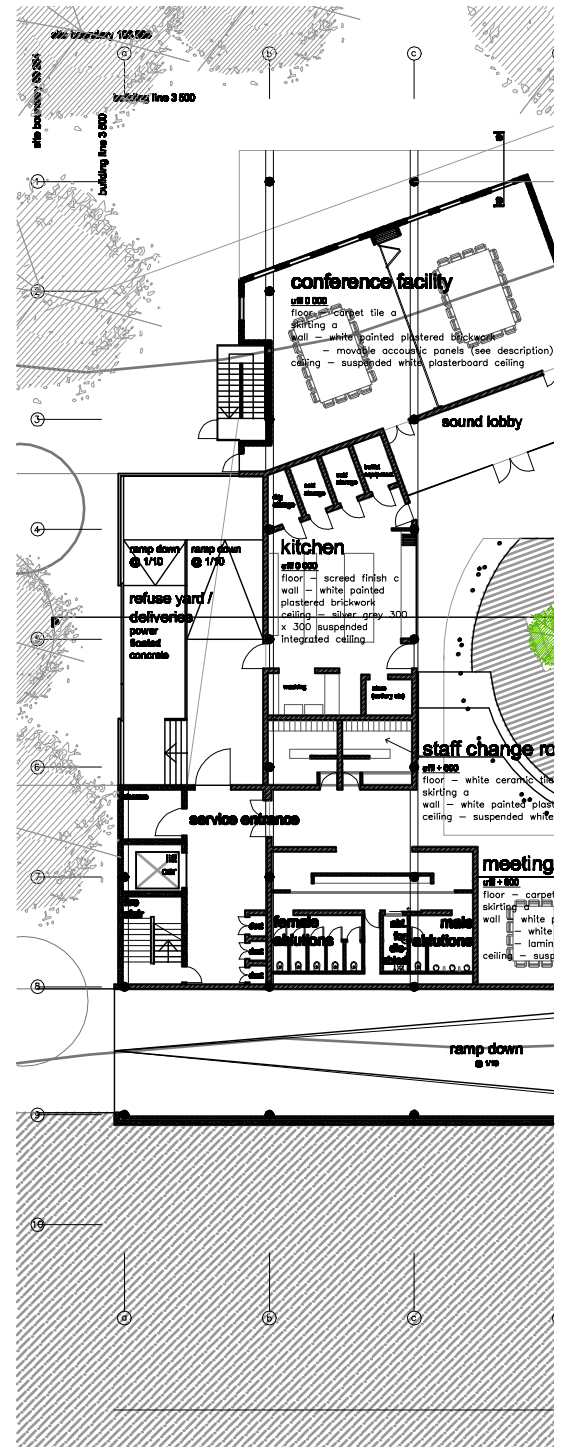
screed finish a- grey 7120 seamless epoxy resin quarts floor finish on self leveling isocrete acoustic-k sub-floor screed

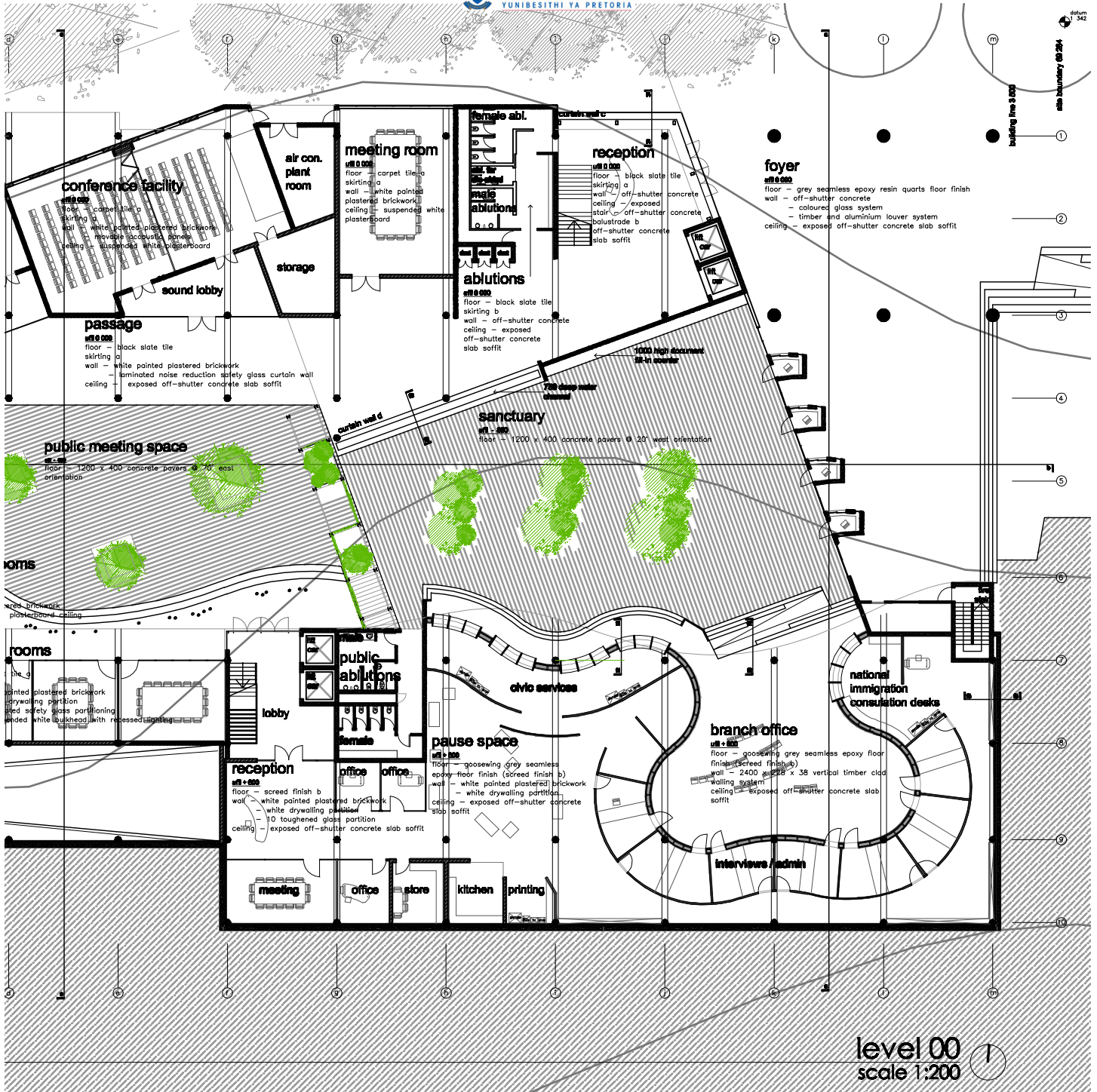
screed finish b- wall to wall goosewing grey seamless epoxy resin floor finish on self leveling isocrete acoustic-k sub-floor screed

screed finish c- non-slip polyurethane floor screed with polyurethane coving finished with birds beak top edge and surface coated with a polyurethane coating seal

carpet tile - 600 x 600 charcoal carpet tile on 40 self leveling isocrete acoustic-k sub-floor screde

Figure 89: Ground floor plan





building line @ 20'

1

2

3

4

5

6

7

8

9

10

level 00  
scale 1:200



white italia high pressure laminate finish on all steel  
1000 access flooring system with bolted understructure to manufacturer's spec.

slate tile - 600 x 600 black slate tile on 40 screed with 10 joints. 6 mm silicon rubber sealed movement joints where floor and wall meet, at slab joints, in door frame, and areas bigger than 16m<sup>2</sup>

sanctuary floor - 1200 x 400 prefab. concrete pavers on 40 sand on waterproofing membrane on screed with 1.70 fall towards outlets

skirting:

skirting a - 18 x 108 pale brown timber skirting  
screwed to wall with wall plugs

skirting b - 600 x 150 x 15 slate tile skirting

skirting c - 75 x 3 aluminium plate, riveted to drywalling system

envelope:

plastered brickwork - flush joint clay stock bricks. 85 high brick course (1x brick and joint). use 'Brickforce' every layer for 4 layers above openings extending 800 on both sides.

facebrick - flush joint montana travertine facebrick, 10 polystyrene movement joint between slab and brickwork

plasterwork - 10 interior & 15 exterior to walls. steel trowelled smooth. 10 drip joints to soffit edges

tiled walls

ablution walls a - full length 600 x 10 black slate strip tiles, 5 joints with white grouting

ablution walls b - full length beige ceramic tile, 5 joints with white grouting

timber wall - 228 x 38 vertical pale meranti cladding on 50 x 50 purlins on 228 x 76 saligna timber struc-

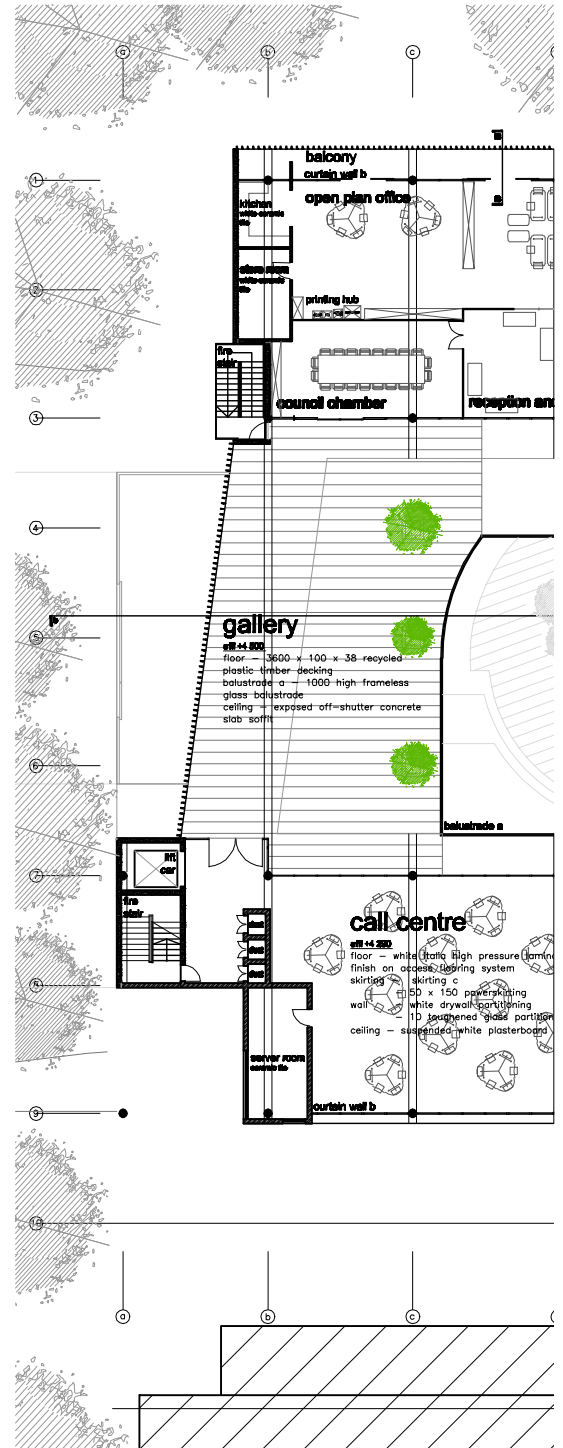
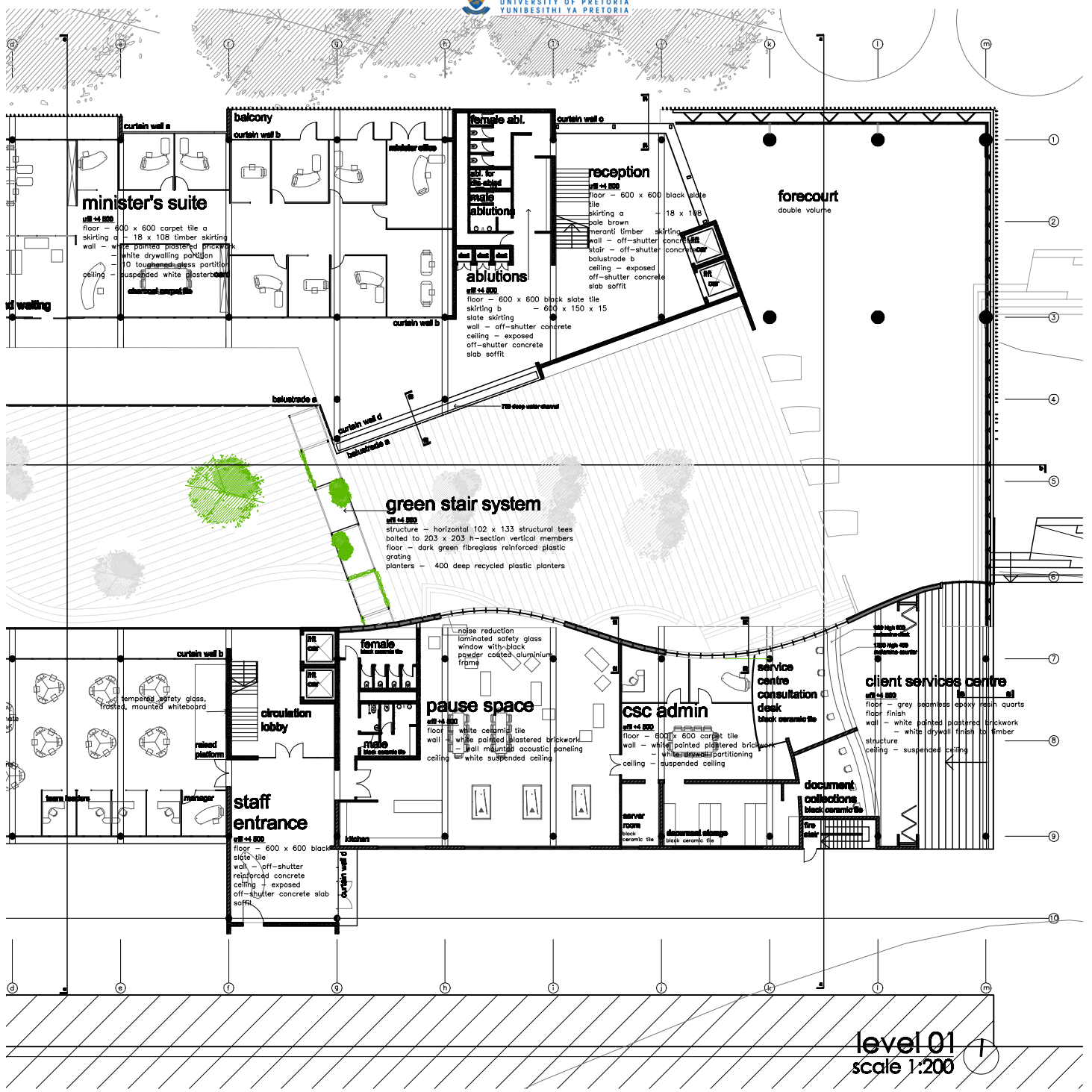


Figure 90: First floor plan



level 01  
scale 1:200



ture bolted to concrete slab, with acoustic paneling interior finish

curtain walling

curtain wall a - 3210 x 2250 x 8.76 self cleaning laminated safety glass with black powder coated aluminium frame

curtain wall b - 6 clearvue smartglass manually operable 2860 x 1000 vertical pivot window with black powder coated aluminium frame

curtain wall c - 3210 x 2250 x 8.76 frameless self cleaning noise reduction laminated safety glass fixed to 270 x 170 x 8 rectangular hollow section steel column with stainless steel glass spider clamp and with clear sealant between pane edges. Steel column base plated bolted to concrete slab, covered with screed and tiling

curtain wall d - 8.76 noise reduction safety glass with black 3550 x 1500 powder coated aluminium frame

glass partitioning - 10 tempered glass partition with aluminium head and base channels and flush aluminium dry joint

drywalling - 12 tapered gypsum plasterboard panels fixed to steel track and stud system, installation to manufacturer's spec.

movable partition - full length 1200 wide movable acoustic wall partition system, with aluminium top track and retractable top and bottom seals to manufacturer's spec.

wall mounted acoustic panels - 610 x 1220 x 56 acoustic panel, installation to manufacturer's spec

louver system - vertical louvre system with intermittent 145 x 38 aluminium and recycled plastic louvres @ 300 c/c bolted to outside of concrete slab or steel

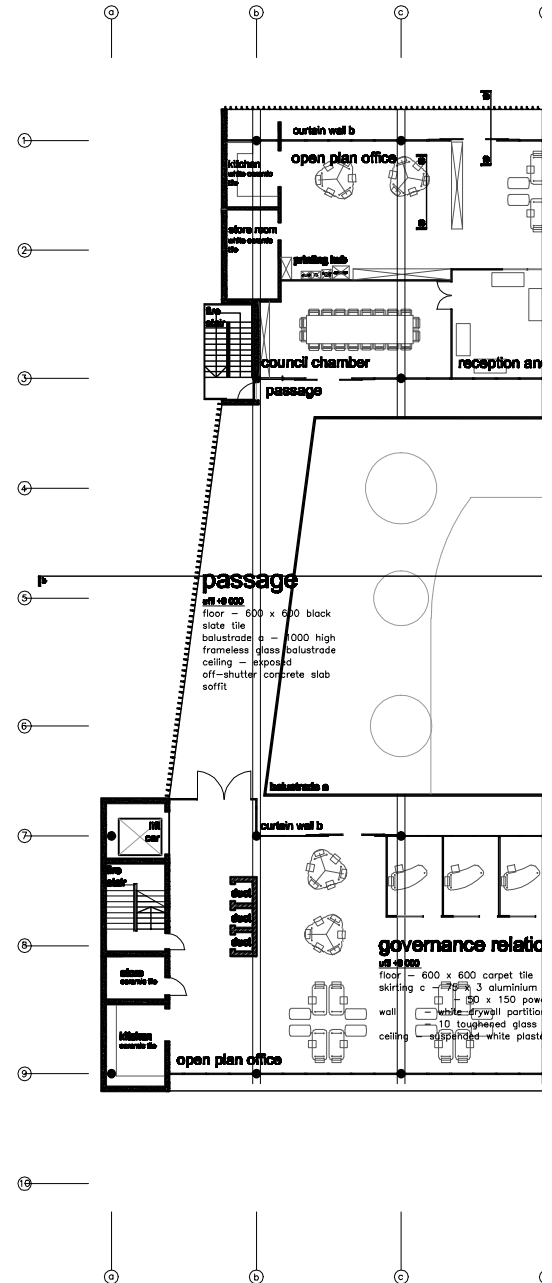
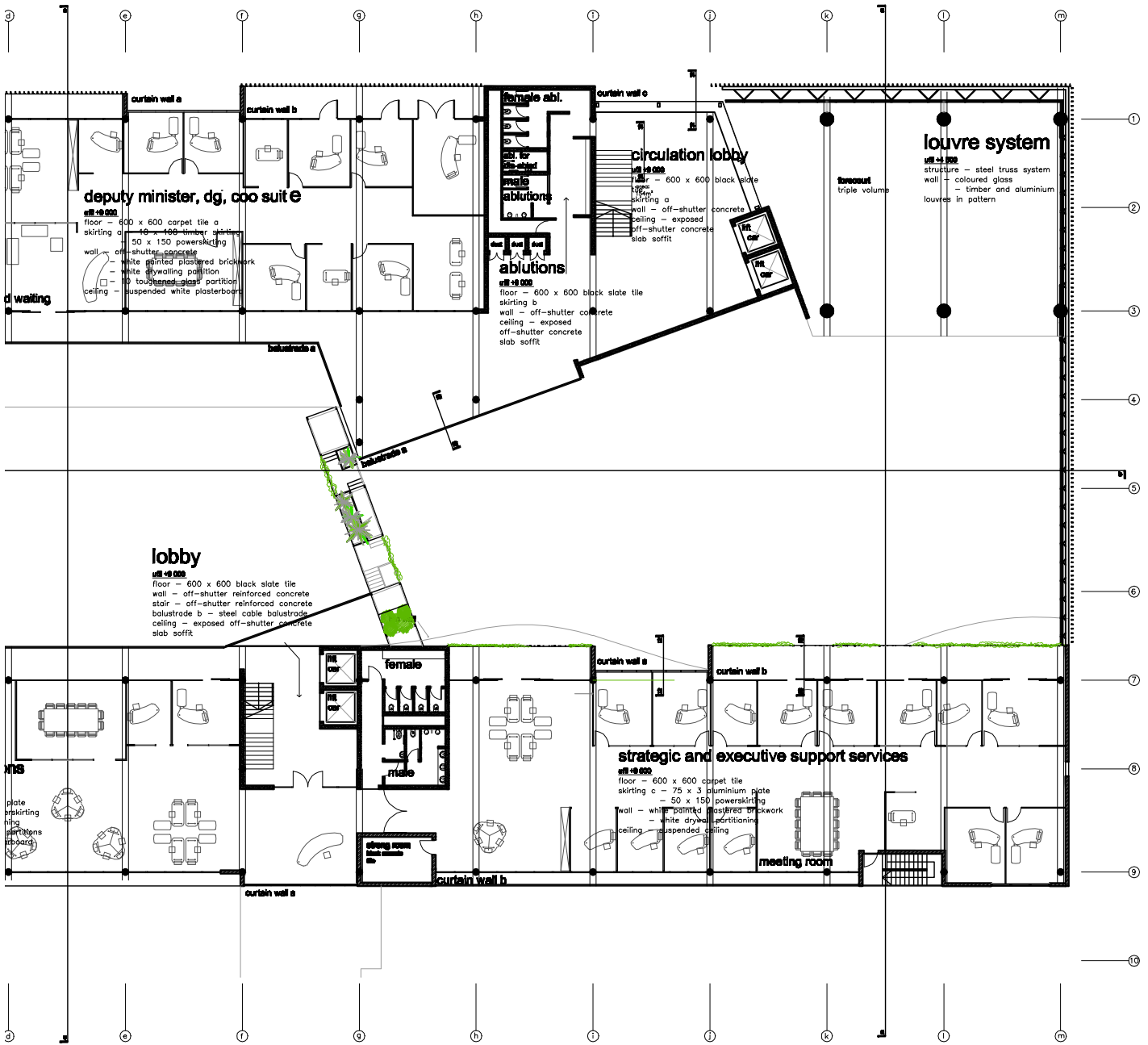


Figure 91: Second floor plan



truss system where applicable

cable trellis system - 3  $\gamma$  steel cable, fixed to channel frame with threaded plug @ intervals according to design, and 100 x 50 c channel welded, @ intervals according to design, to 100 x 50 stainless steel c-channel frame bolted to inside of concrete structure, with 400 x 400 black painted recycled plastic planters with perforated base on base plate

ceiling

ceiling a - exposed concrete soffit. remove all rough edges & joints

ceiling b - 9.5 flush plastered "rhinoboard" fixed to concrete with aluminium ceiling suspender to manufacturer's spec.

ceiling c - prefabricated gypsum suspended bulkhead with recessed lighting, installation to manufacturer's spec.

ceiling d - silver grey 300 x 300 suspended ceiling system with aluminium frame, fibreglass reinforced plastic tiles, ceiling ventilator and ceiling lamp. installation to manufacturer's spec.

stair:

off-shutter reinforced concrete stair with staggered soffit. 38 x 300 pale brown hardwood timber treads with rounded edge. steel cable balustrade (balustrade b)

balustrades:

balustrade a - 1000 x 1000 x 12 toughened 'Armourplate' glass panels fixed to side of concrete slab with stainless steel fixing clamps to manufacturer's spec. @ 500 c/c and with clear sealant between pane edges

balustrade b - 3 diameter stainless steel cable threaded through 10 diameter holes perforated @ 100 c/c intervals in 50 x 10 x 1000 blackened stain-

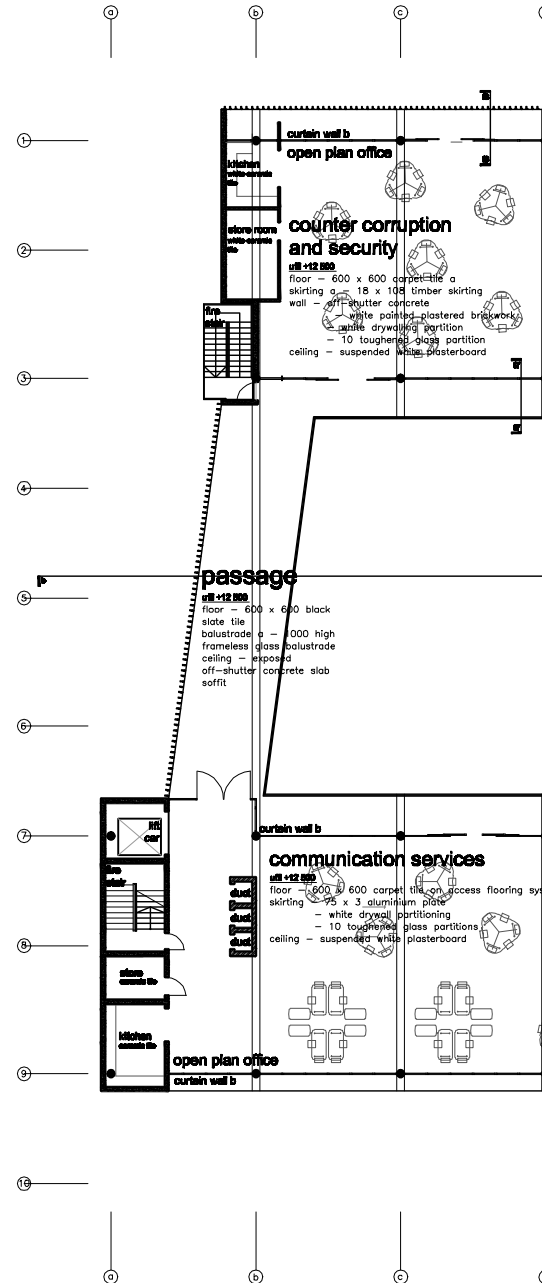


Figure 92: Third floor plan





less steel balusters cast in concrete slab, and fixed, with stainless steel receivers and pull lock threaded eye fitting to manufacturer's spec., to 50 x 50 x 1000 blackened stainless steel end posts cast in concrete slab

fire escape:

203 x 203 h-section steel fire escape structure clad with wire mesh, bolted to steel structure with flat plate cover with galvanised teel grating steps covered with non-slip studded rubber, treads @ 300, risers @ 170 with 1000 high steel balustrade 50 x 50 square steel handrail with 25 x 25 steel balusters @ 250 c/c

green stair system:

structure - 38 deep dark green dura tread anti slip fibreglass floor grating panels fixed with stainless steel square recessed holding down clamps to 102 x 133 structural tees bolted to 203 x 203 h-section vertical steel members bolted to concrete floor slabs

planting container - 400 high recycled plastic planter held in place by 25 x 25 steel angle fixed to floor grating with recessed holding down clamps. perforated irrigation pipes to be fixed to underside of structural tees with steel clamps

cable trellis - 3 diameter wire rope with yoke end fittings bolted to structural tees in pattern

roof:

concrete roof - aluminium paint on torched on bitumen waterproofing on 25 min. screed with fall of 1:70 towards outlets. 45° chamfer of 40 x 40 at all flatroof upturns. 160 diameter upvc rainwater downpipes cast into reinforced concrete columns

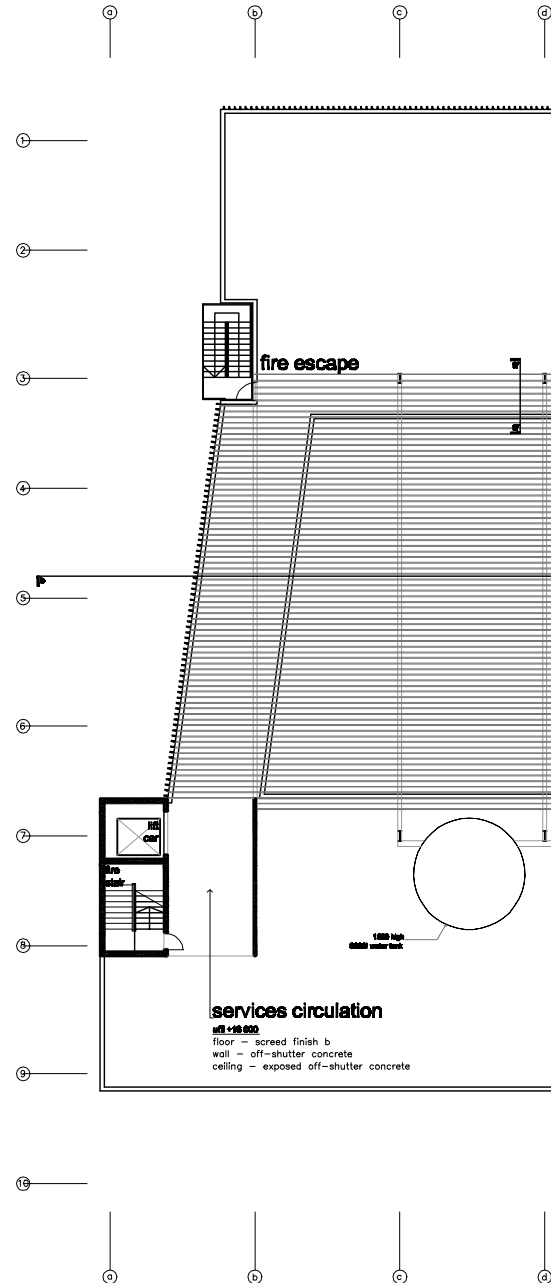
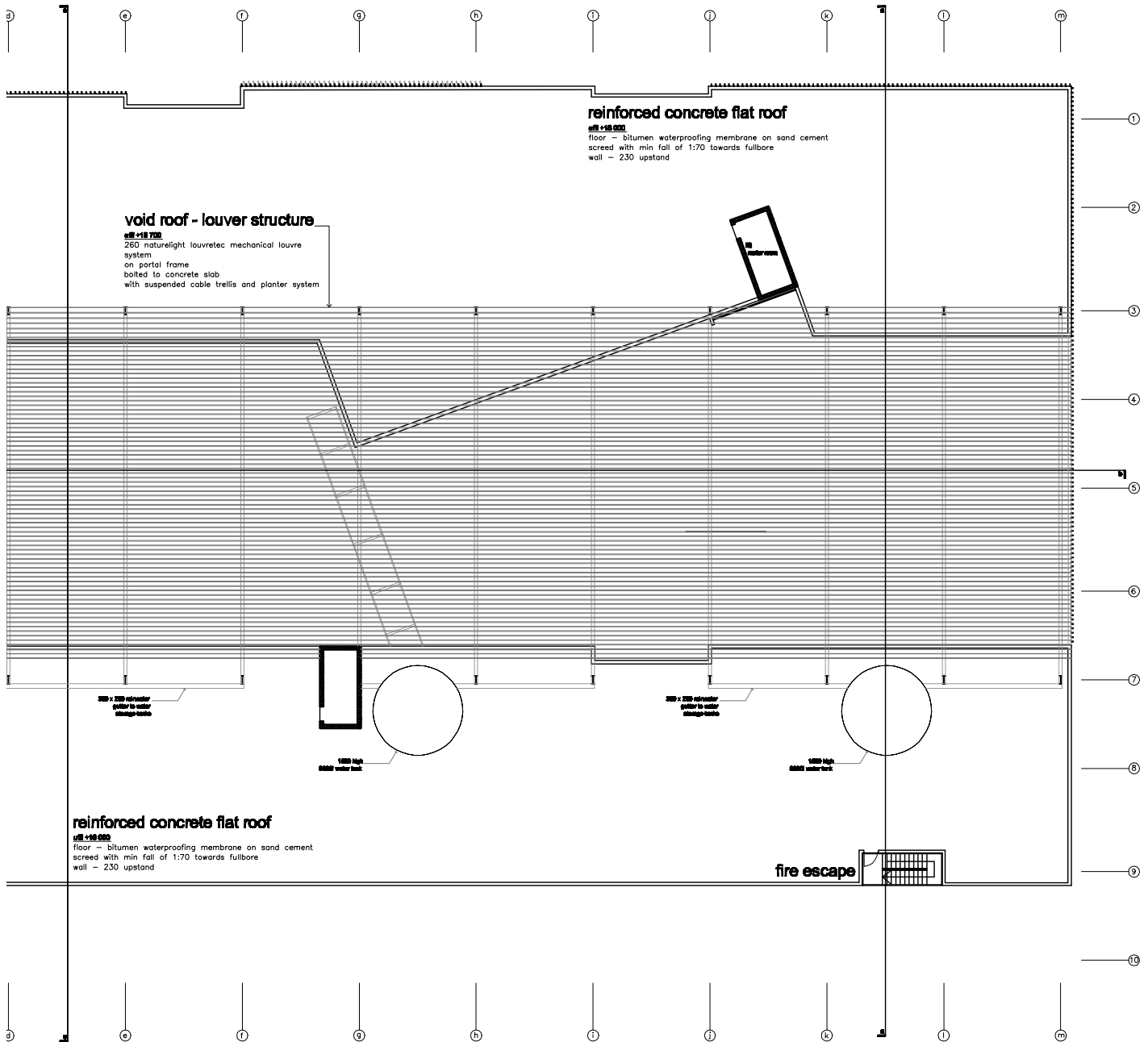


Figure 93: Roof plan



louver system:

2600 x 3000 “260 naturelight louvretec” mechanical louvre system to manufacturers spec. bolted to portal frame, bolted to concrete slab with 50 x 50 runners @ 1500 c/c. suspended 10000 x 500 x 12 wire mesh trellis and planter system with top track

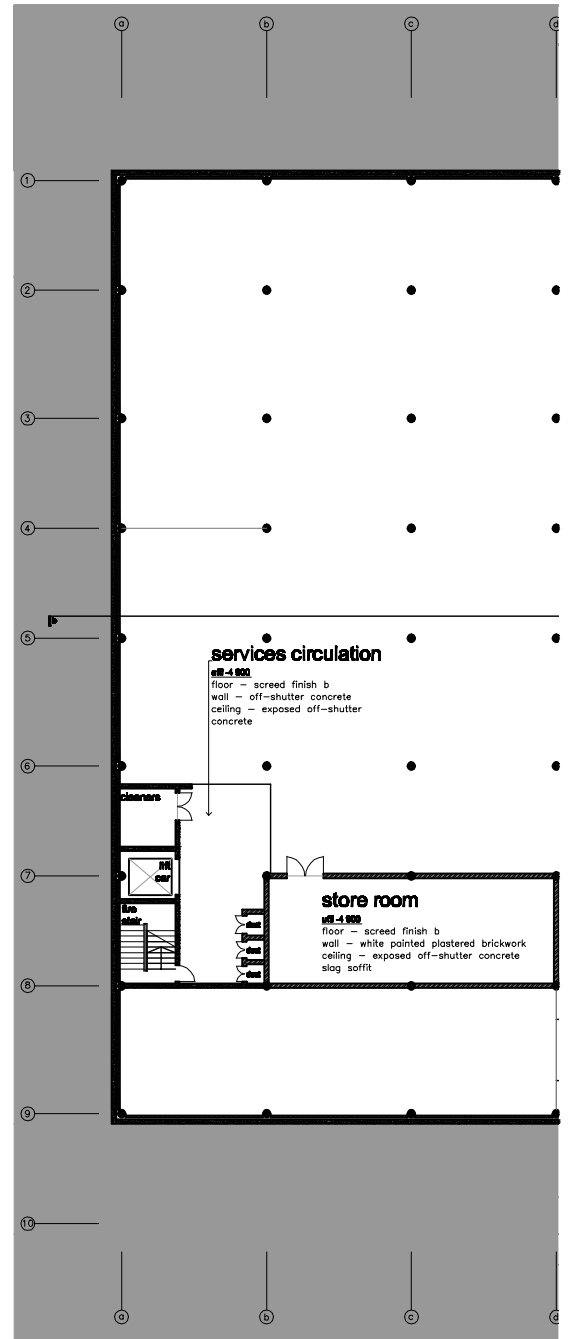
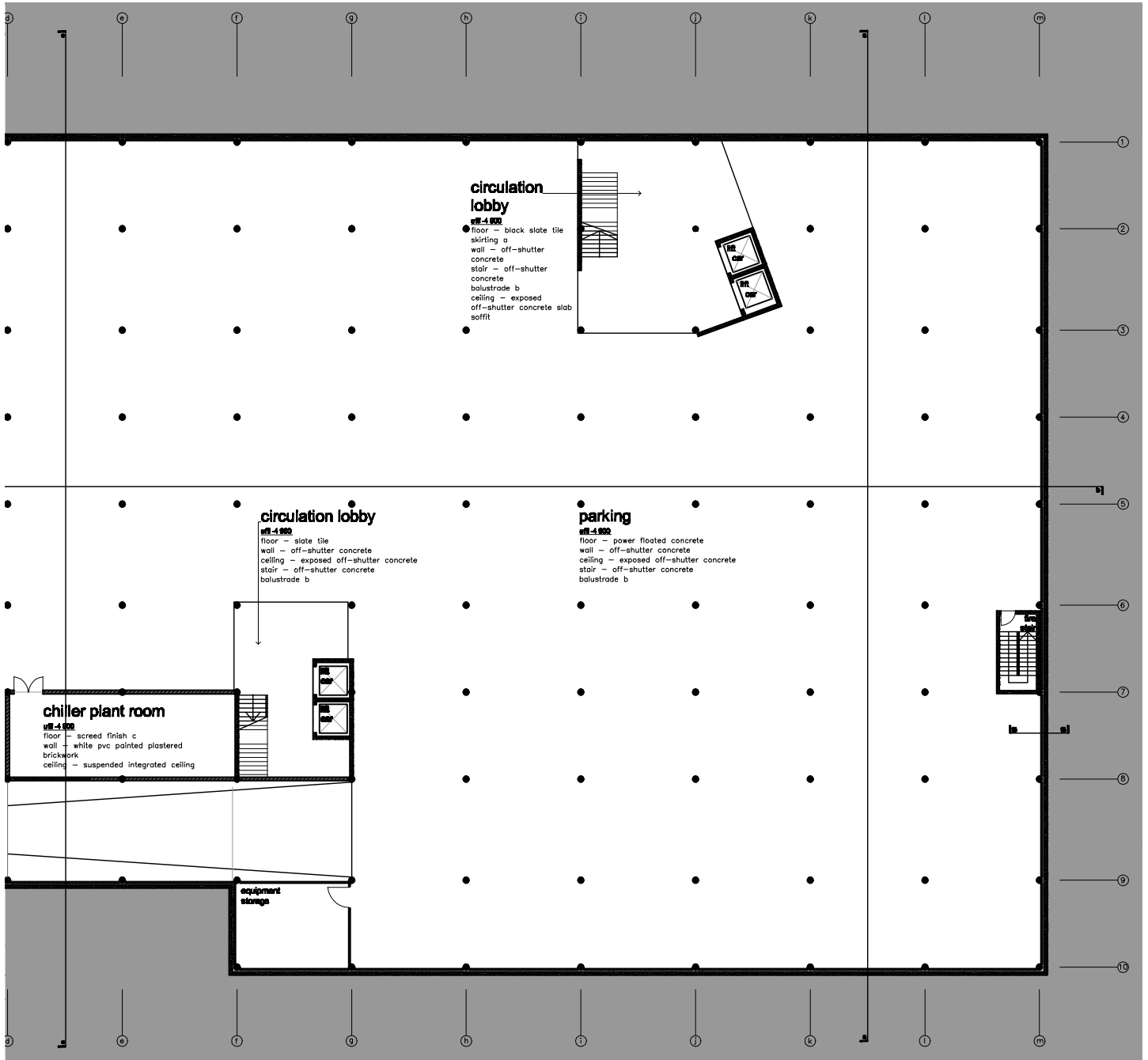


Figure 94: Basement plan



level -1  
scale 1:200



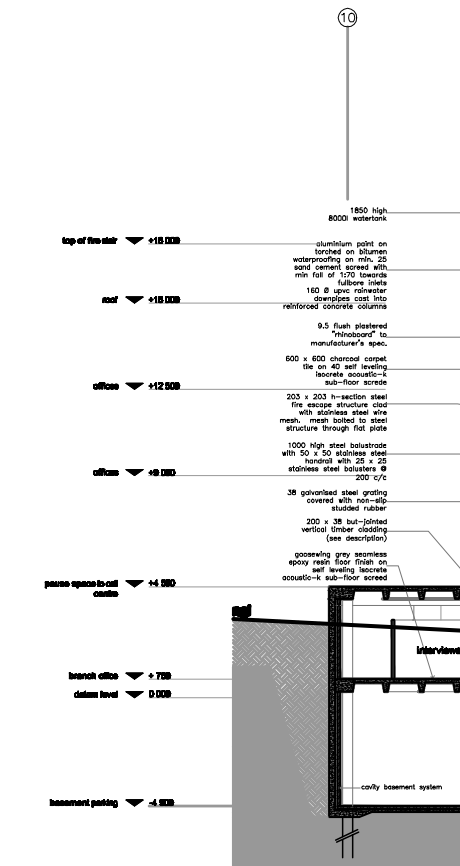
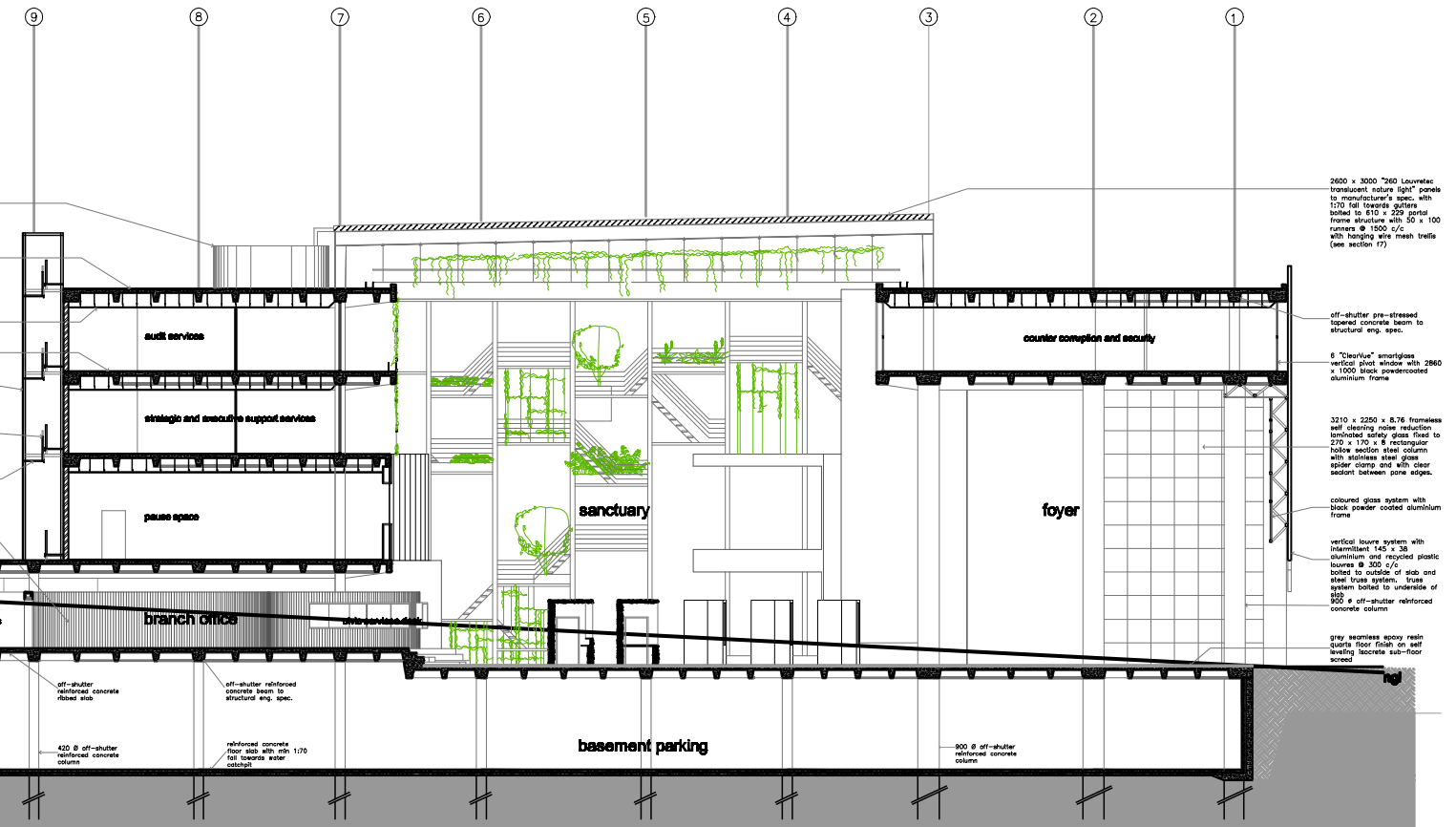
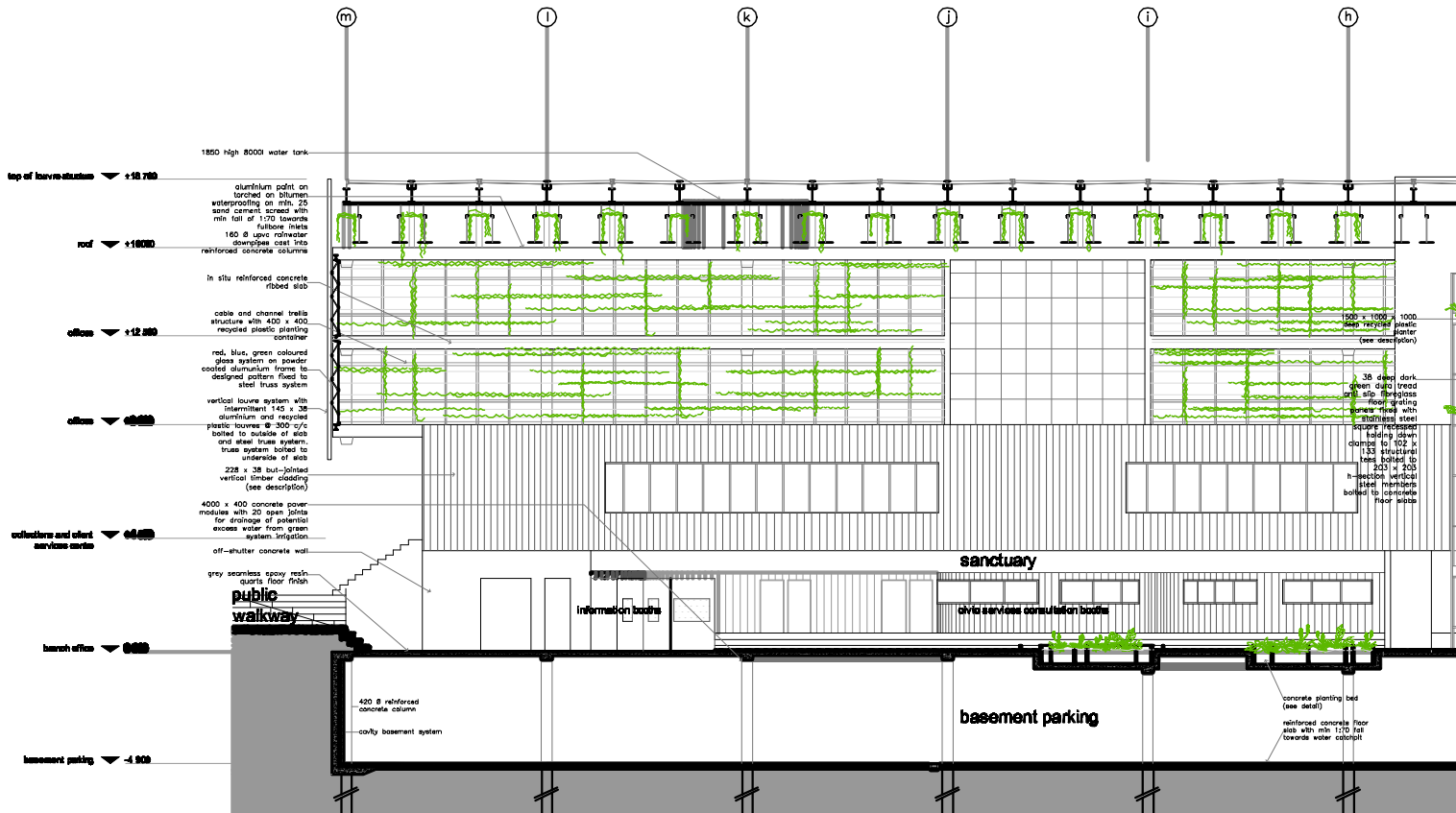


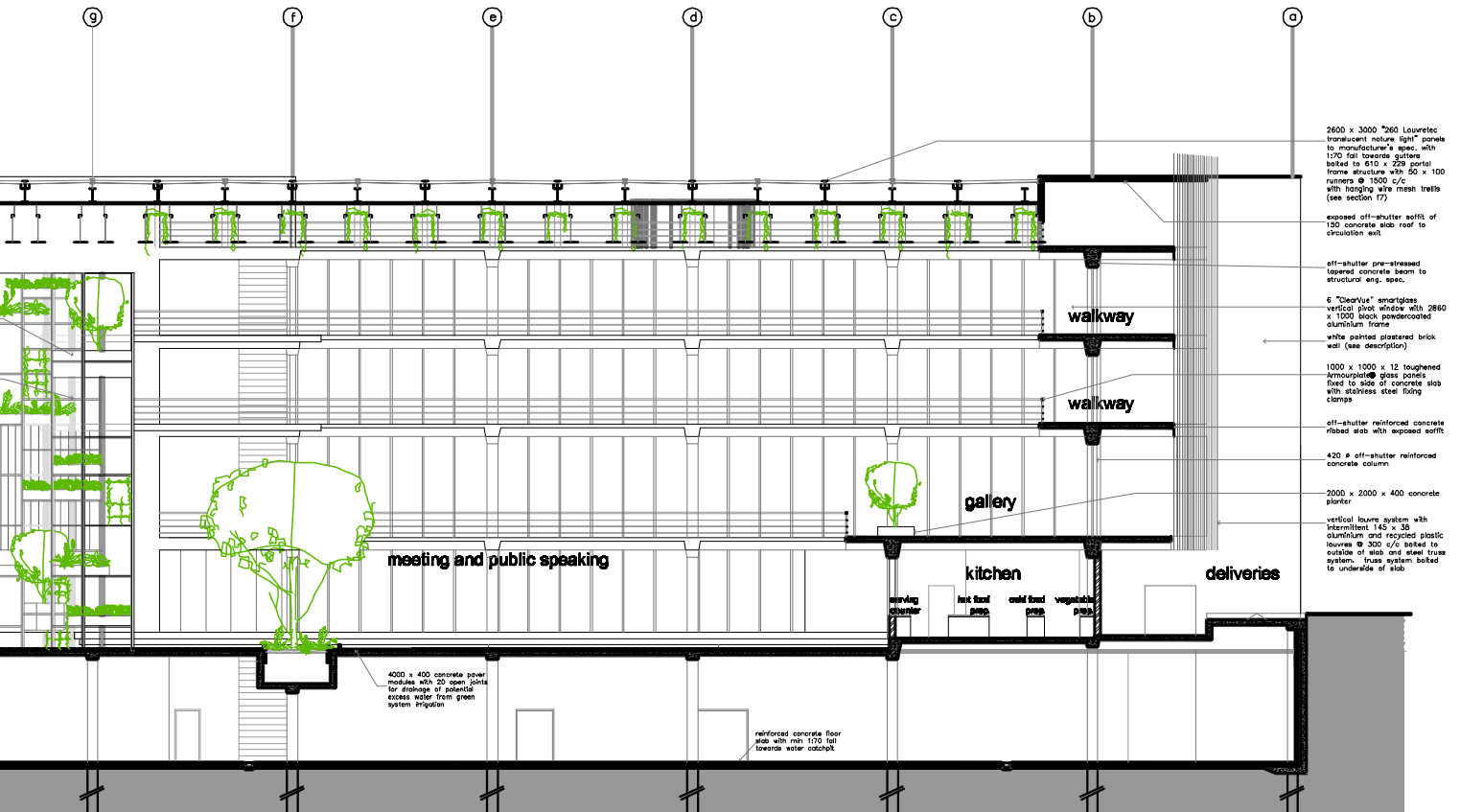
Figure 95: Section a





section b \_ scale 1:100

Figure 96: Section b





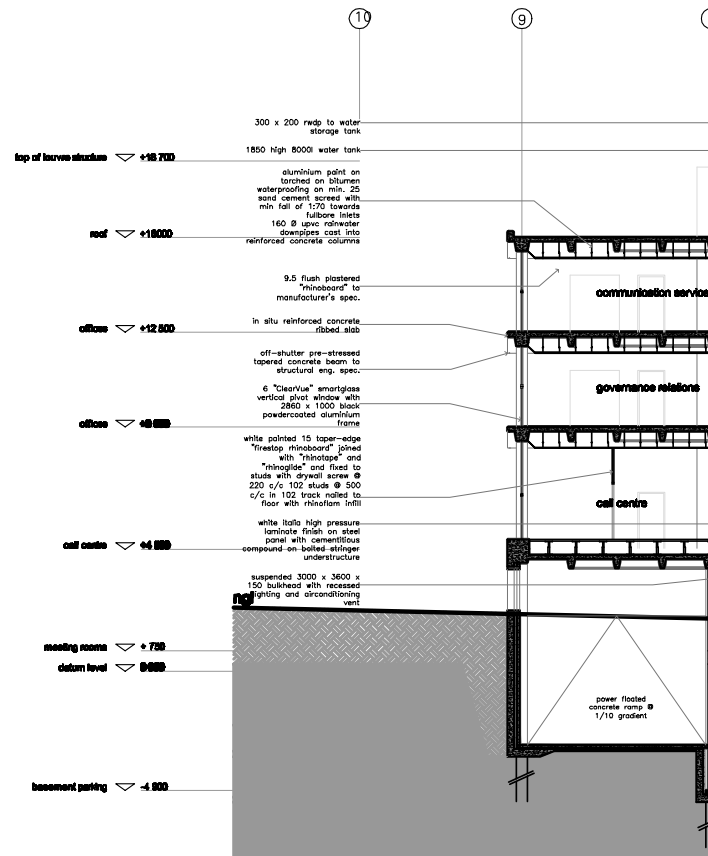
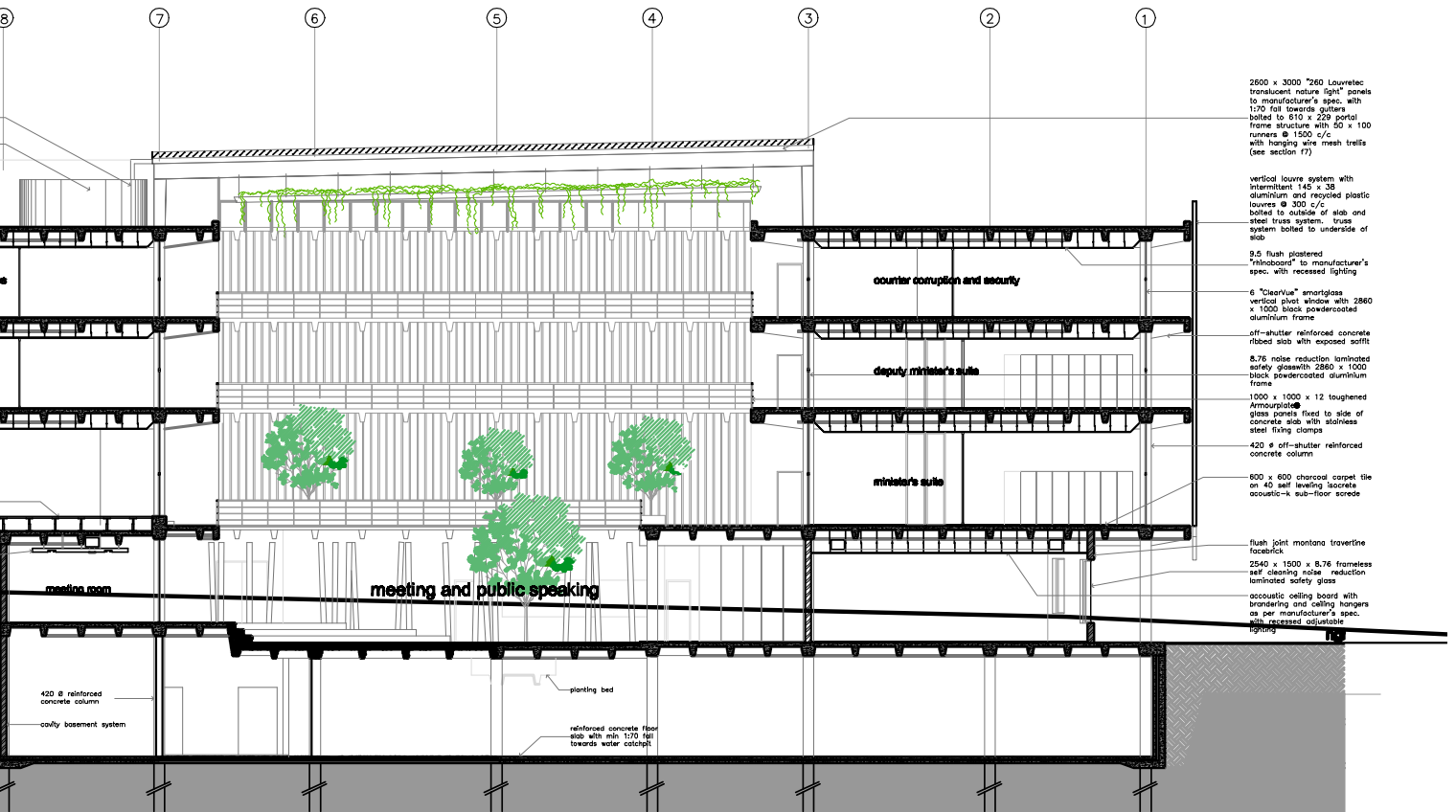


Figure 97: Section c

section c \_ scale 1:100



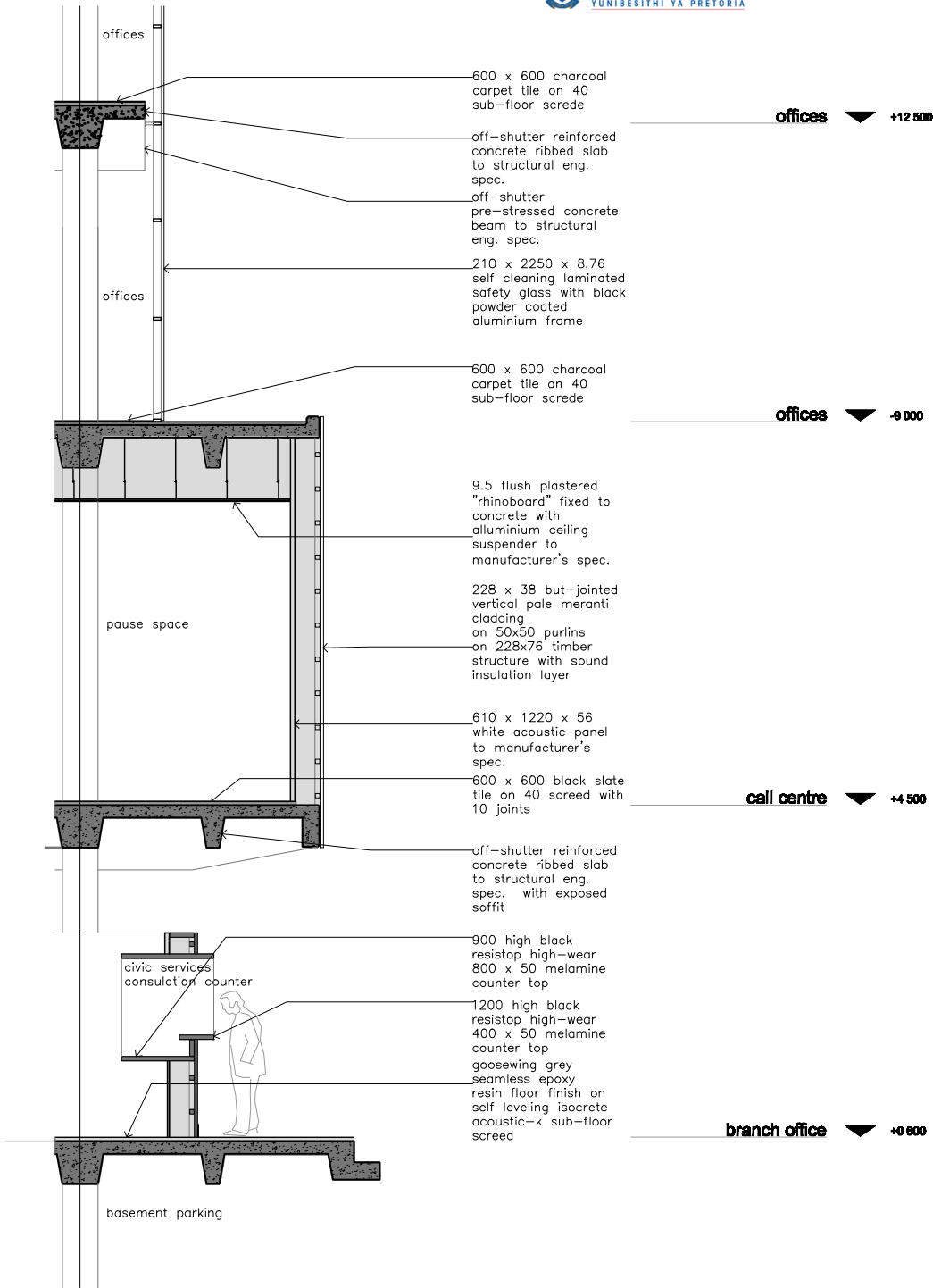


Figure 98: section f1 (1.50)

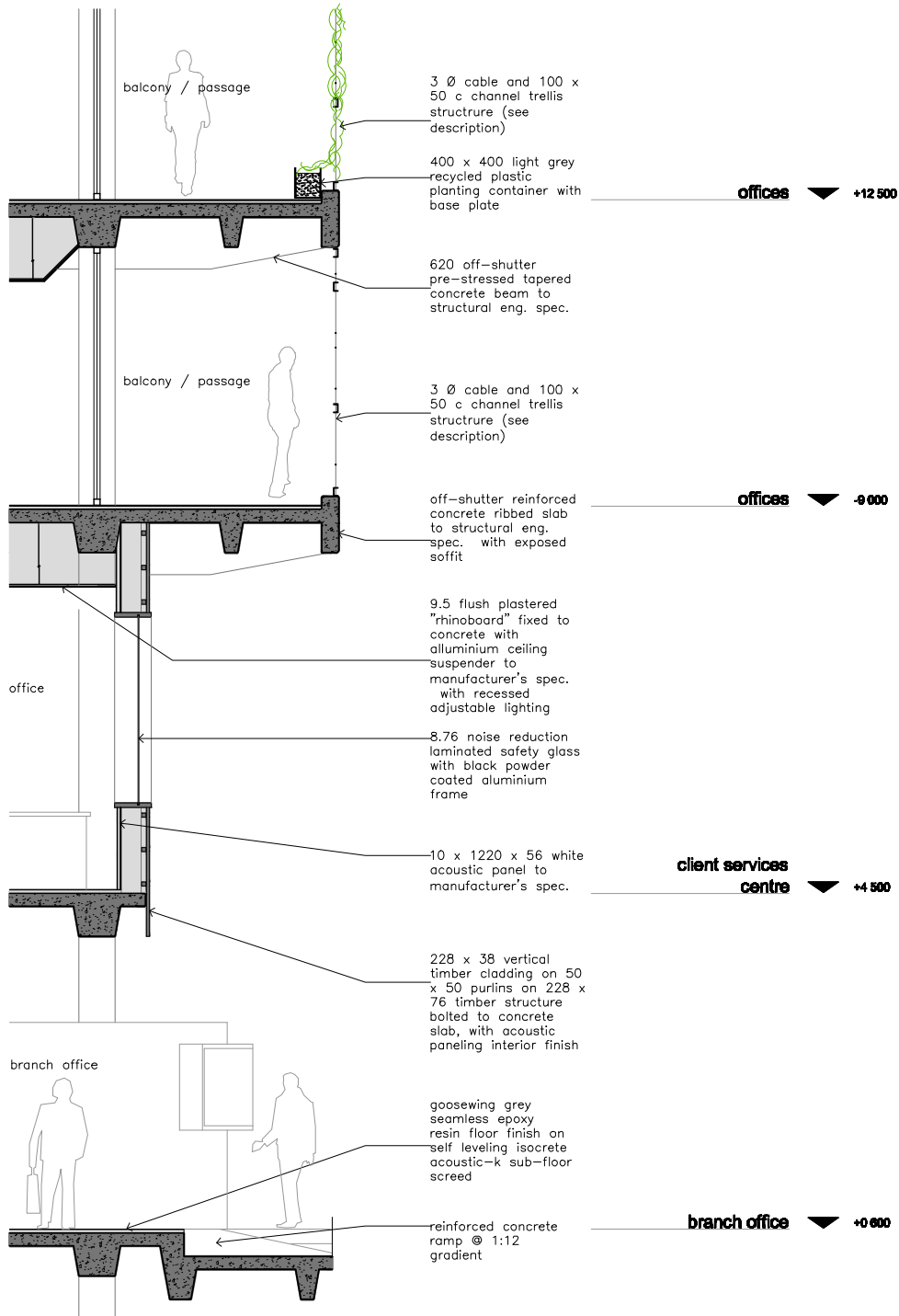


Figure 99: section f2 (1.50)

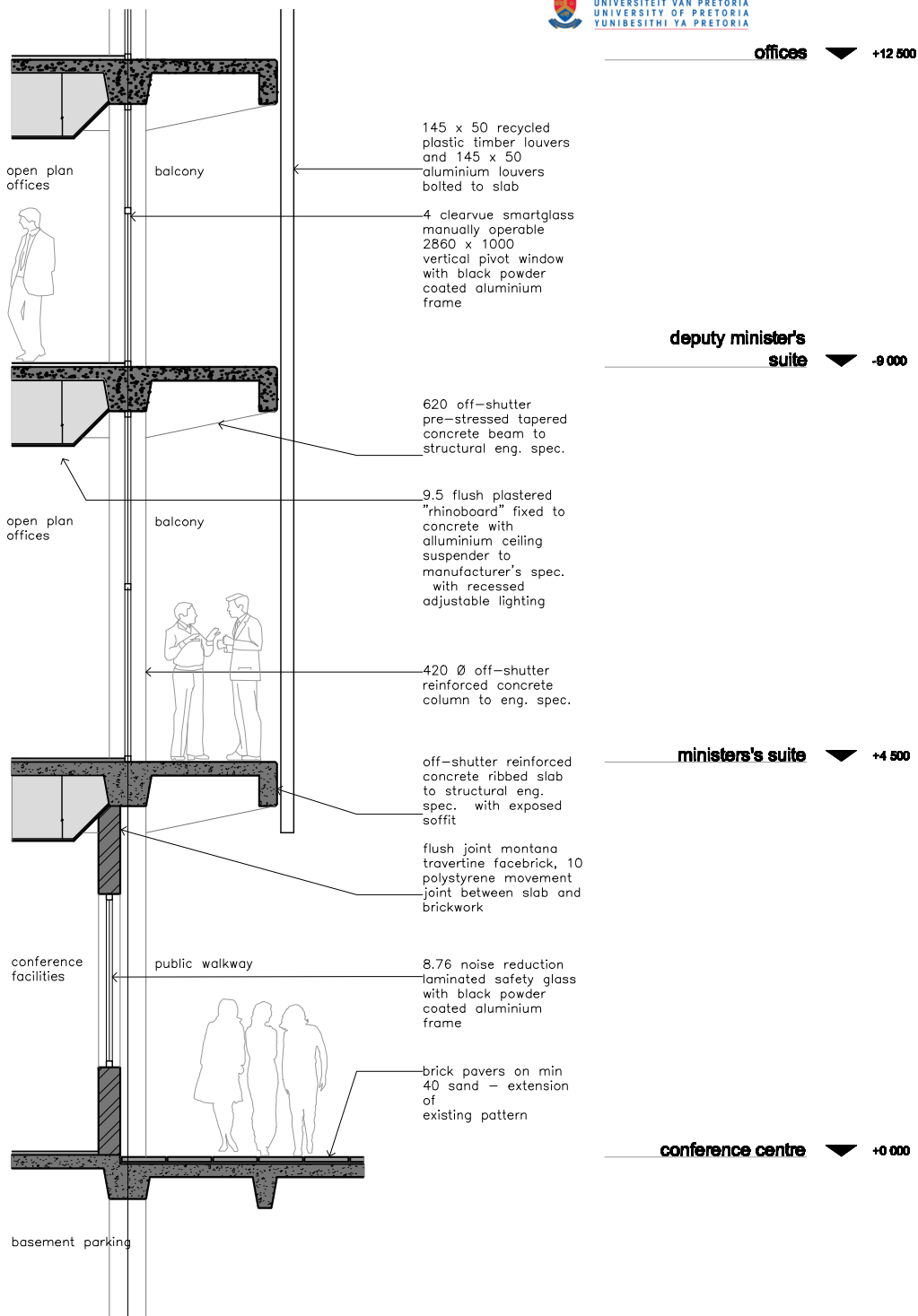


Figure 100: section f3 (1.50)

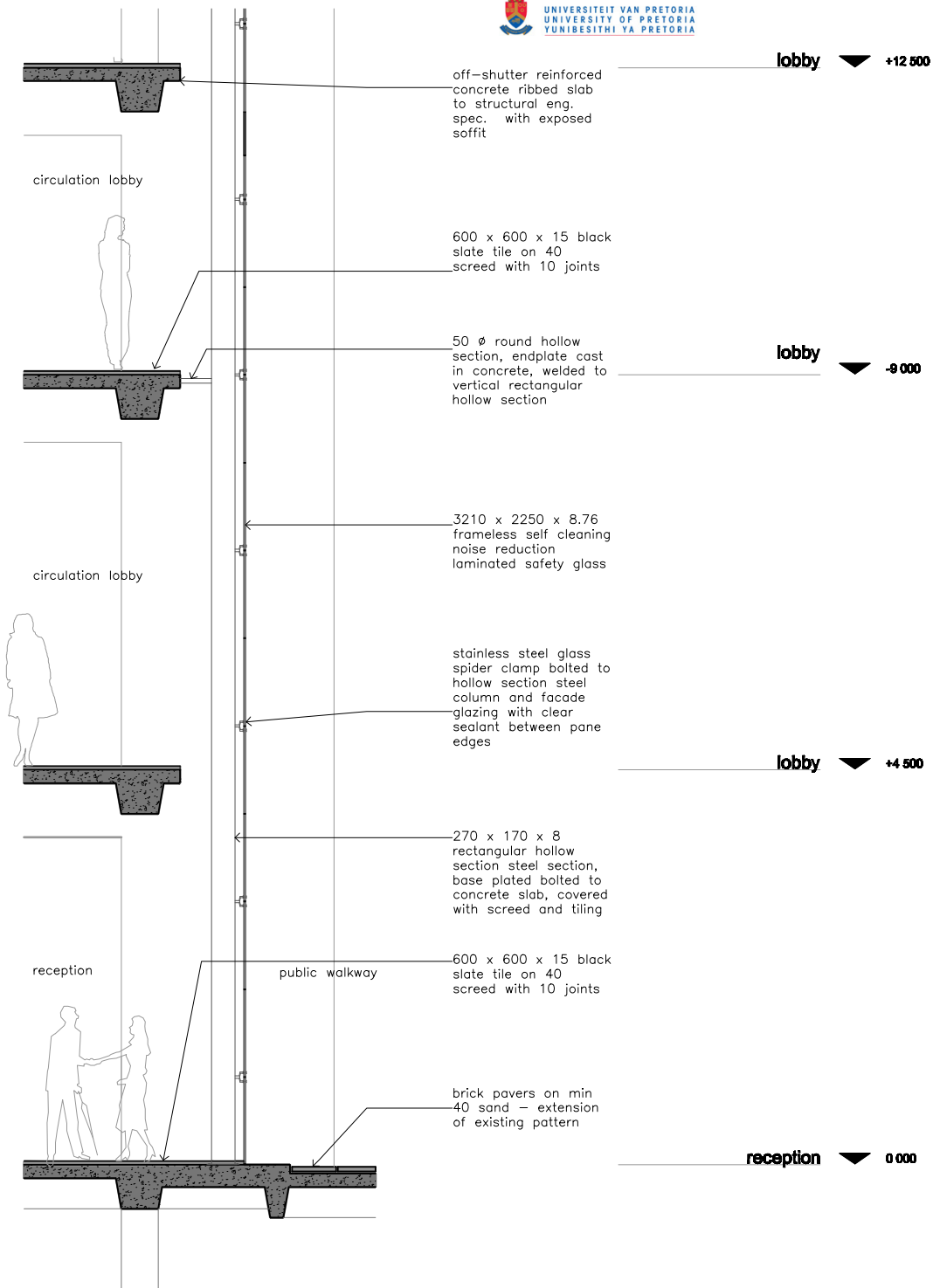


Figure 101: section f4 (1.50)

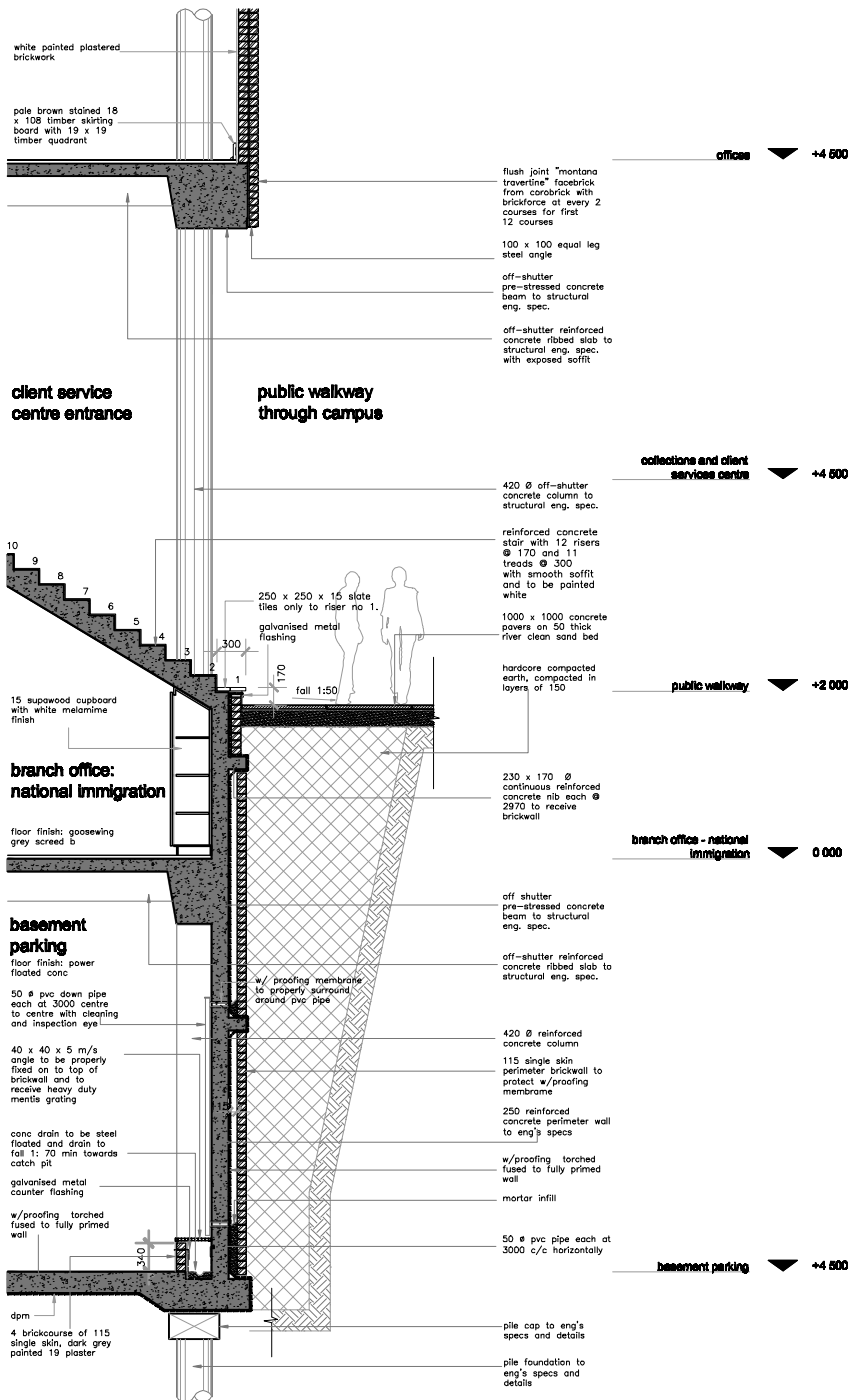


Figure 102: section f5 (1.20)



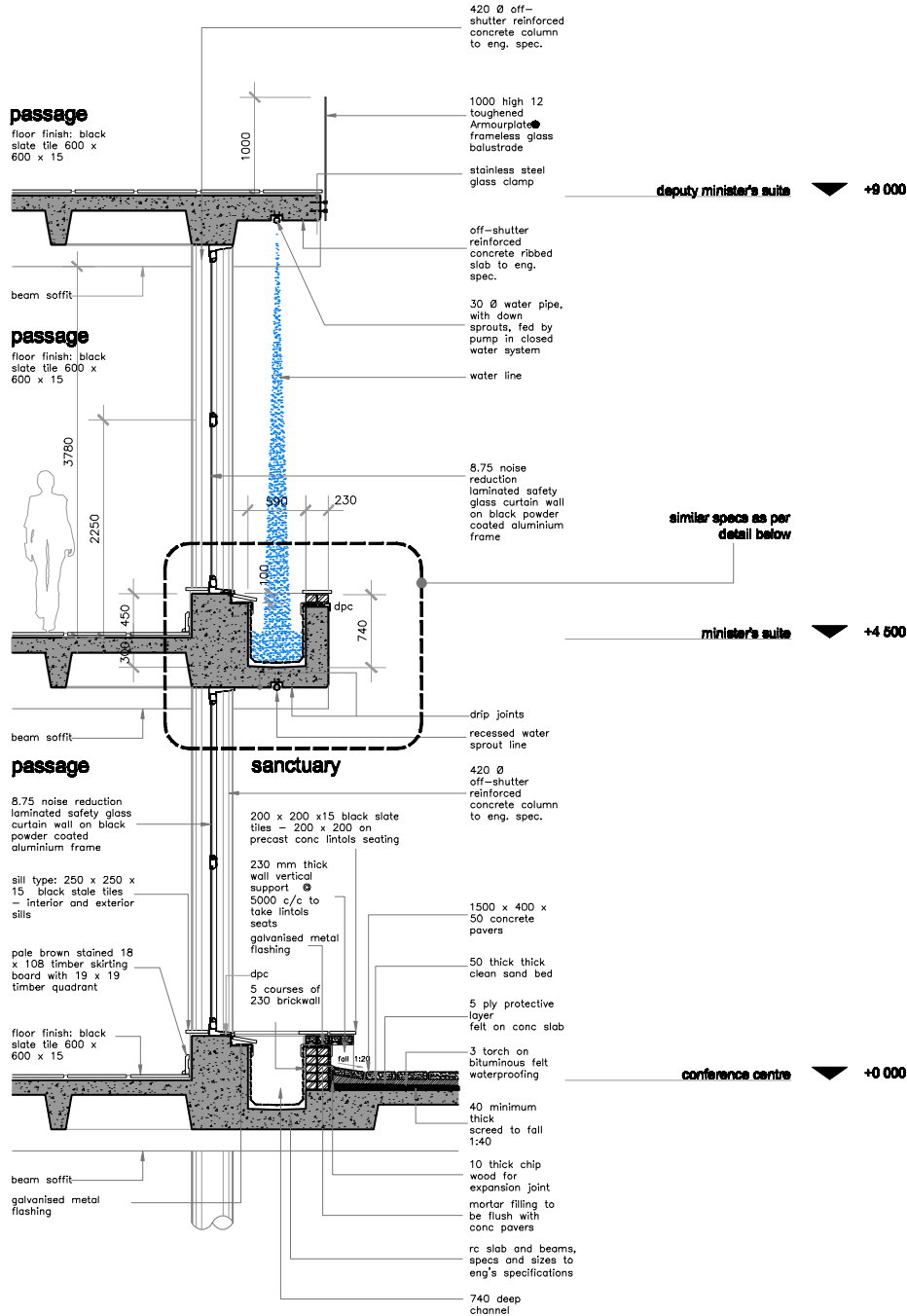


Figure 103: section f6 (1.20)

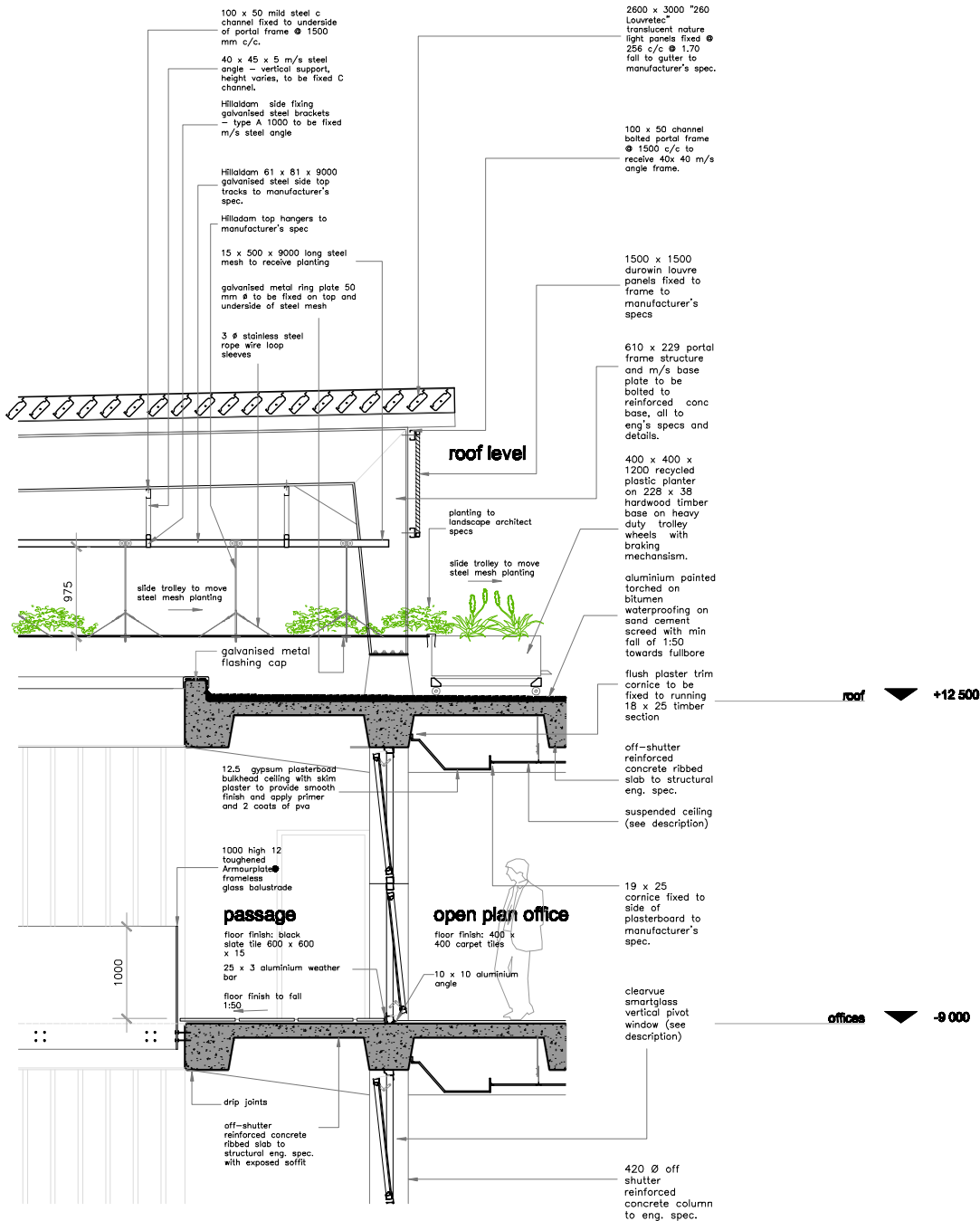


Figure 104: section f7 (1.20)

