

COMPLEX PROJECTS
LABORATORY LIFE

A Medical Laboratory Building

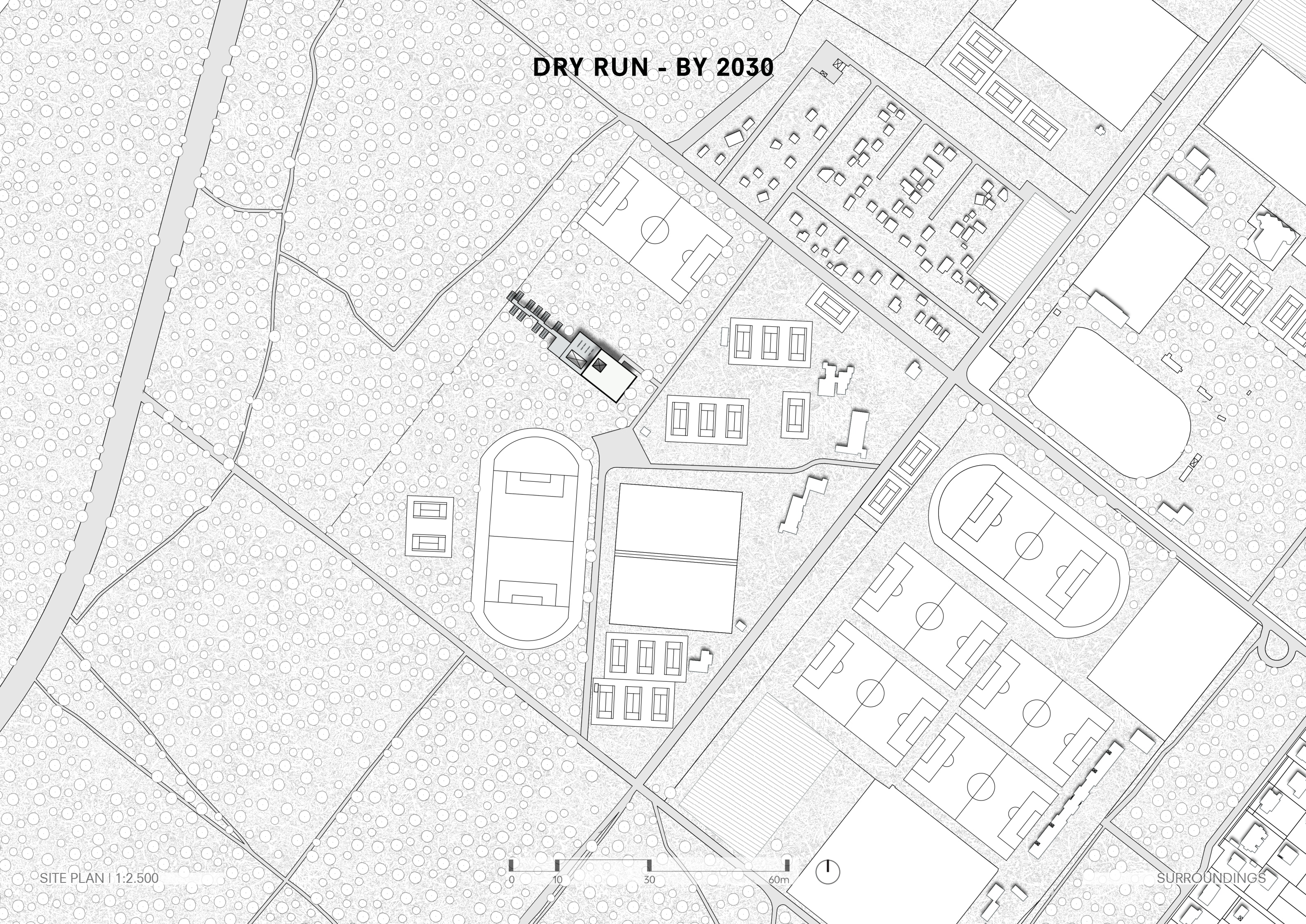
Sander Geluk

Drawing set

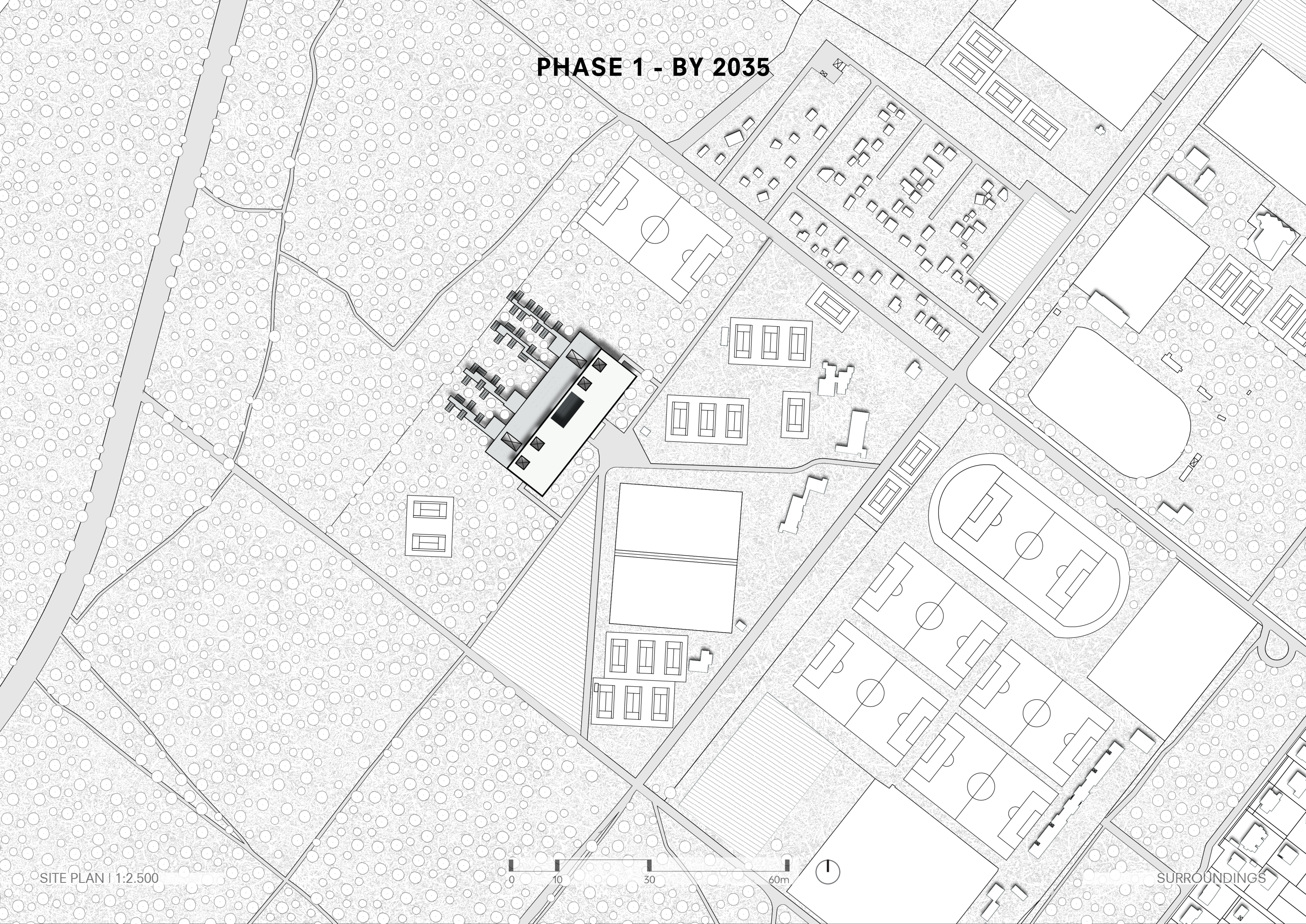
Group 9

05/07/2024

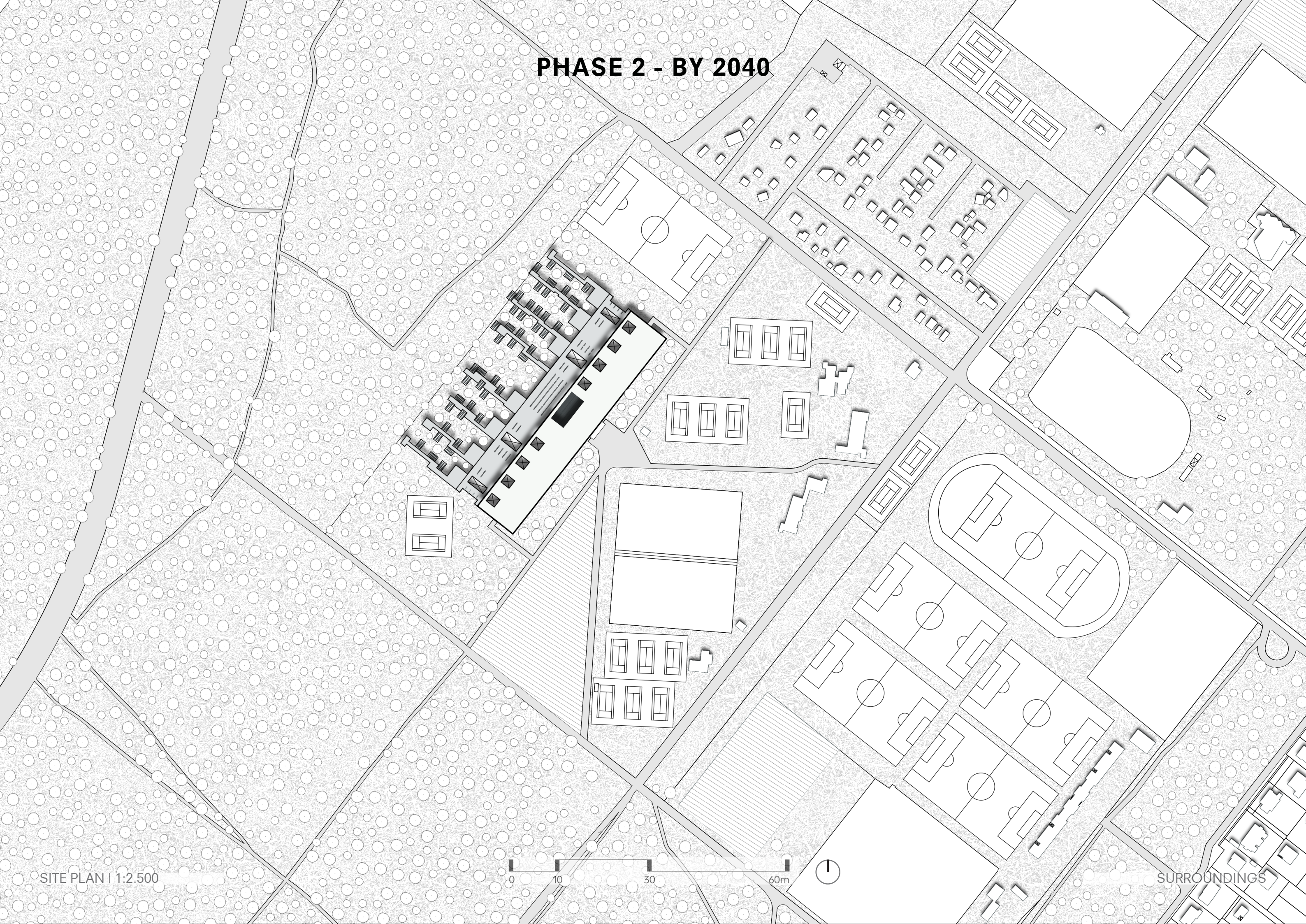
DRY RUN - BY 2030



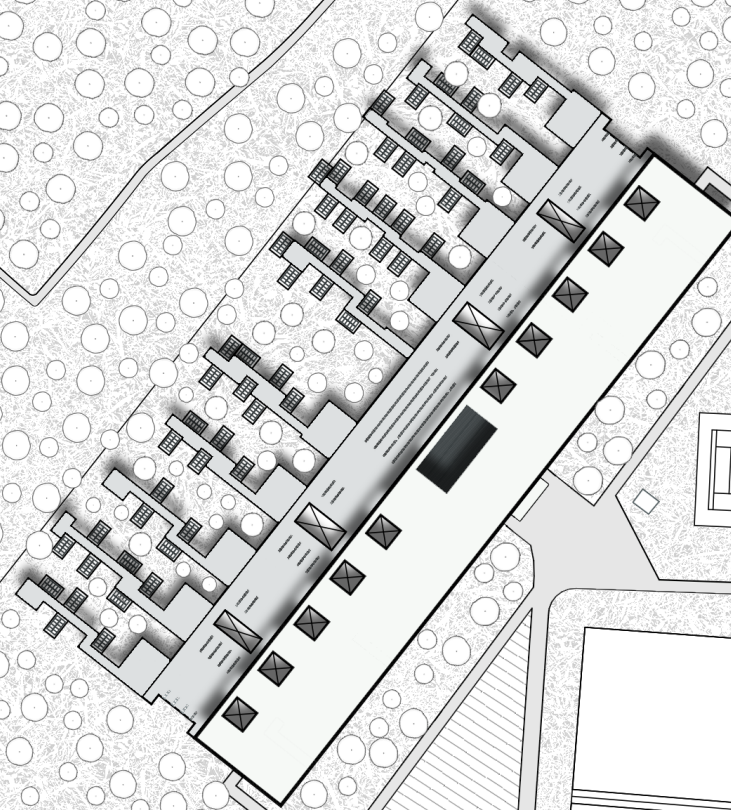
PHASE 1 - BY 2035



PHASE 2 - BY 2040



PHASE 3 - BY 2045



SITE PLAN | 1:2,500



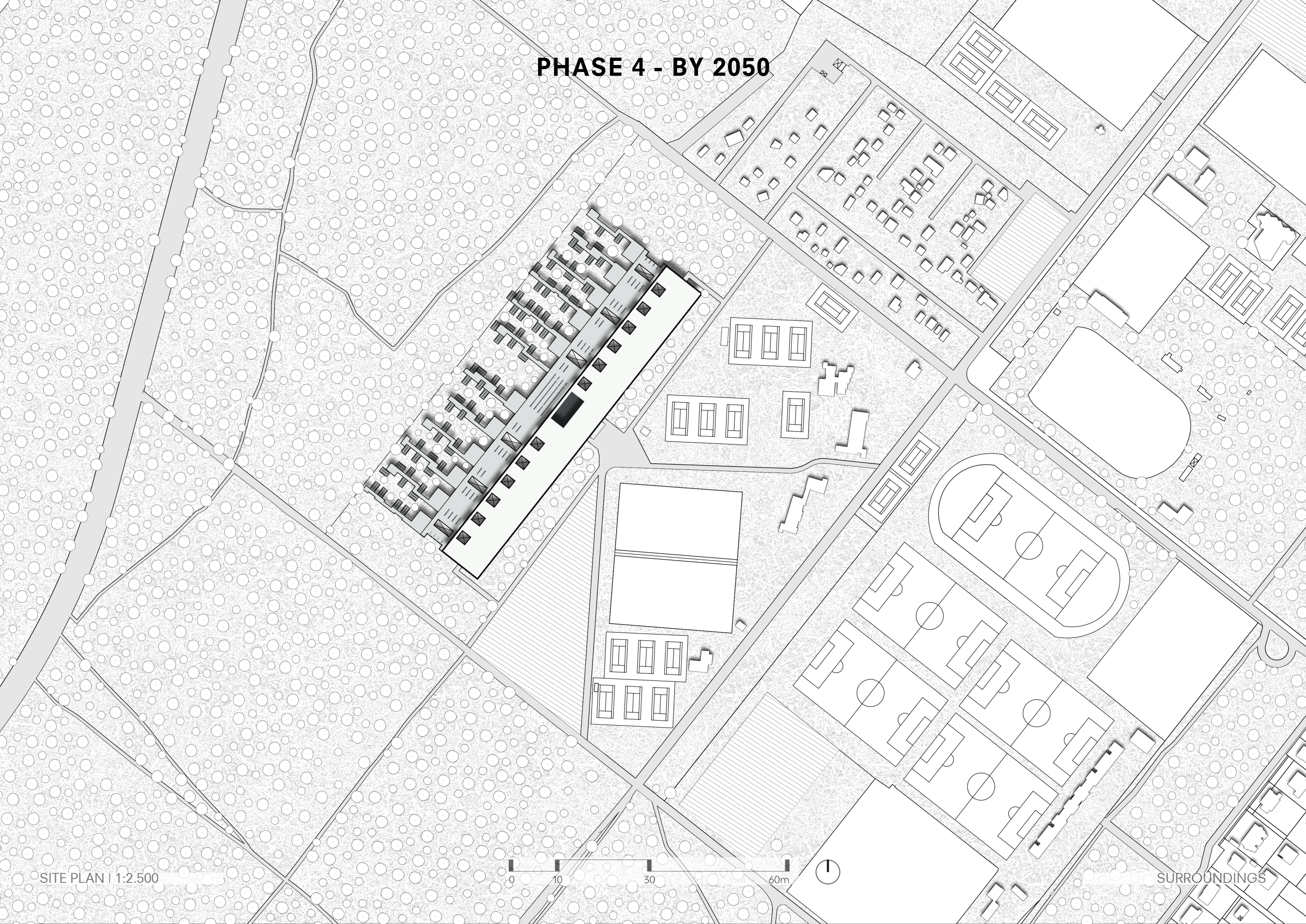
SURROUNDINGS

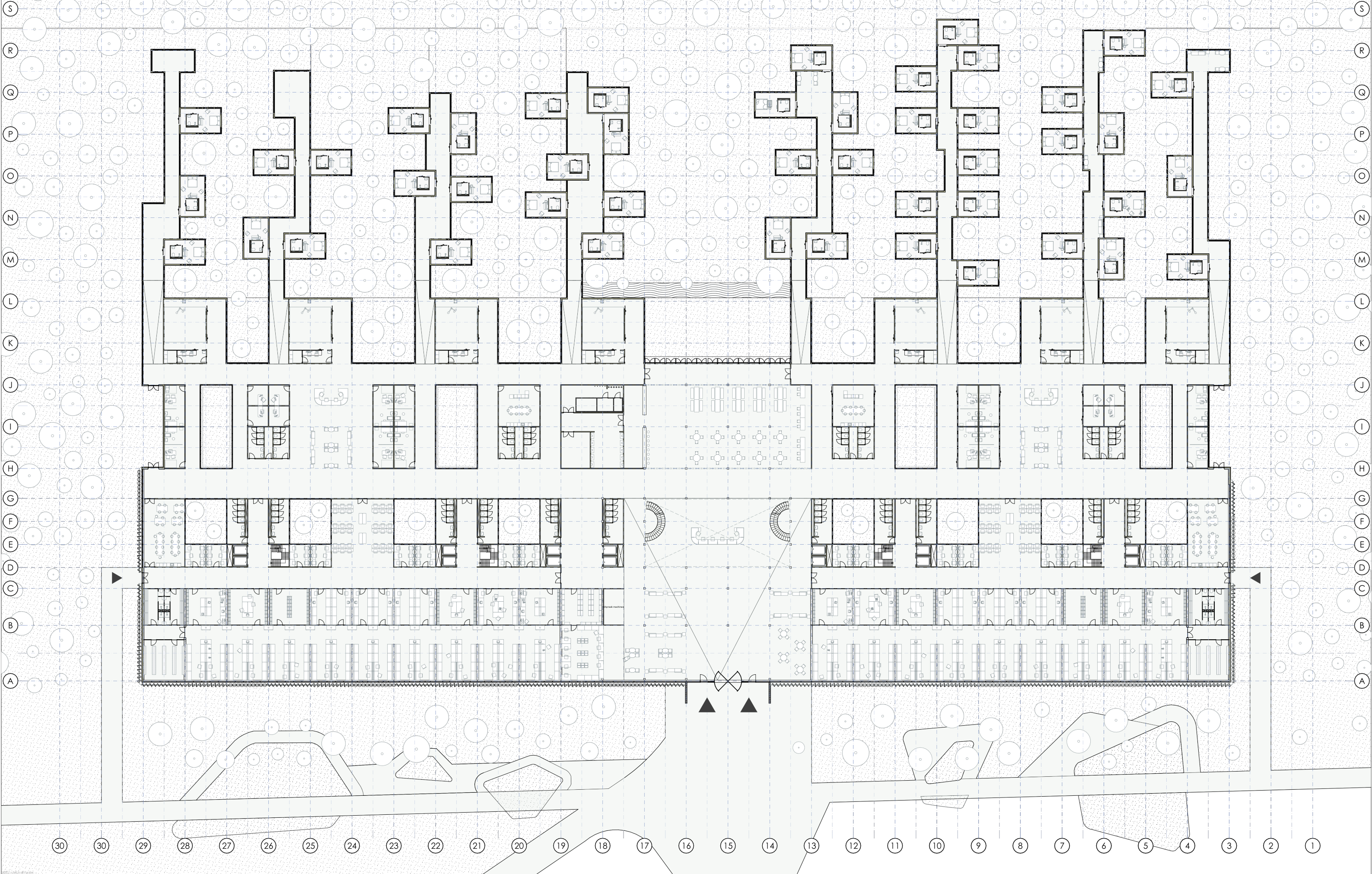
PHASE 4 - BY 2050

SITE PLAN | 1:2,500

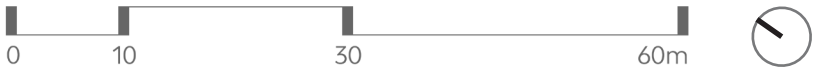


SURROUNDINGS

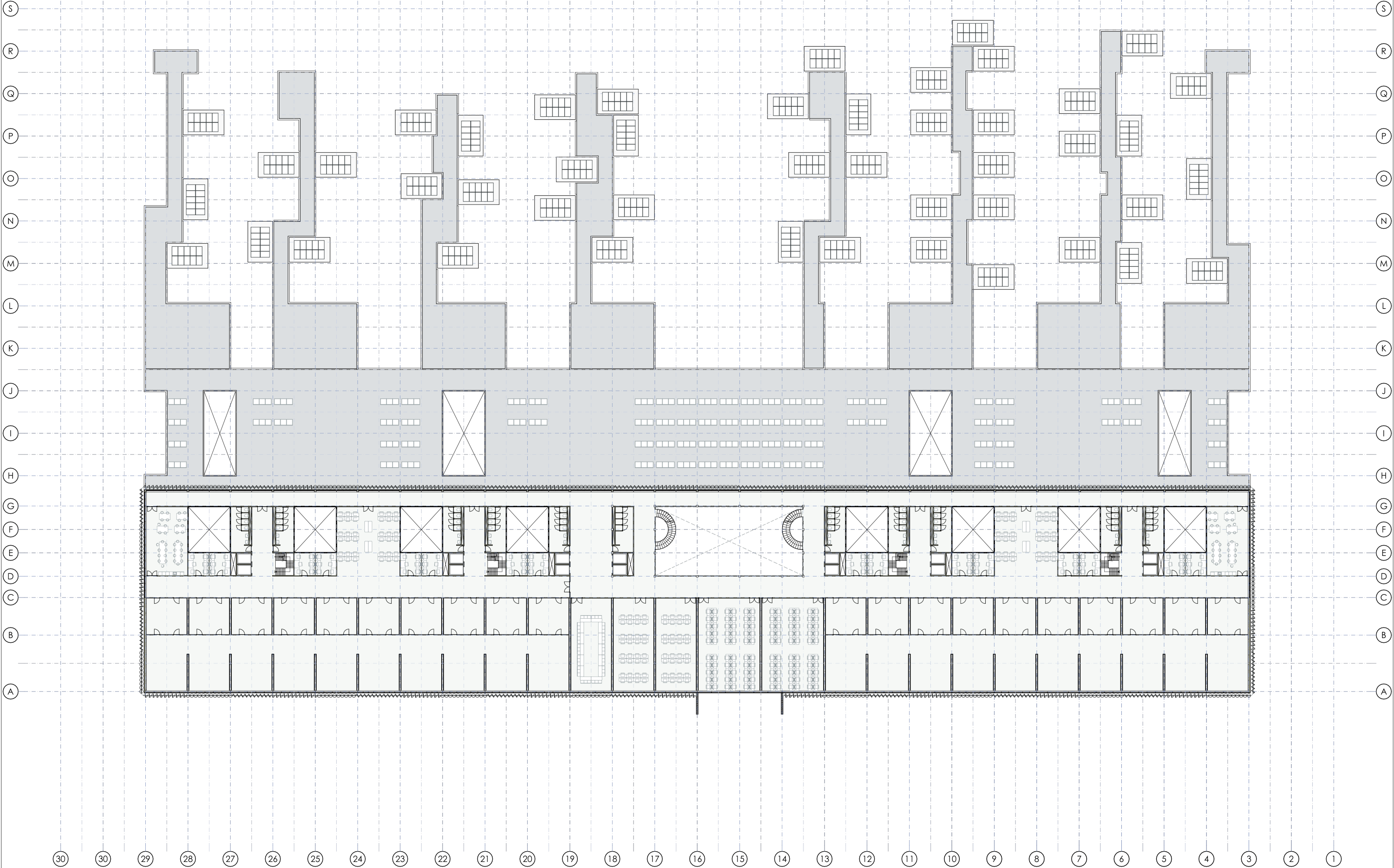




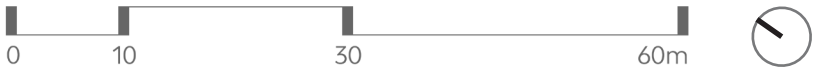
GROUND FLOOR | 1:400



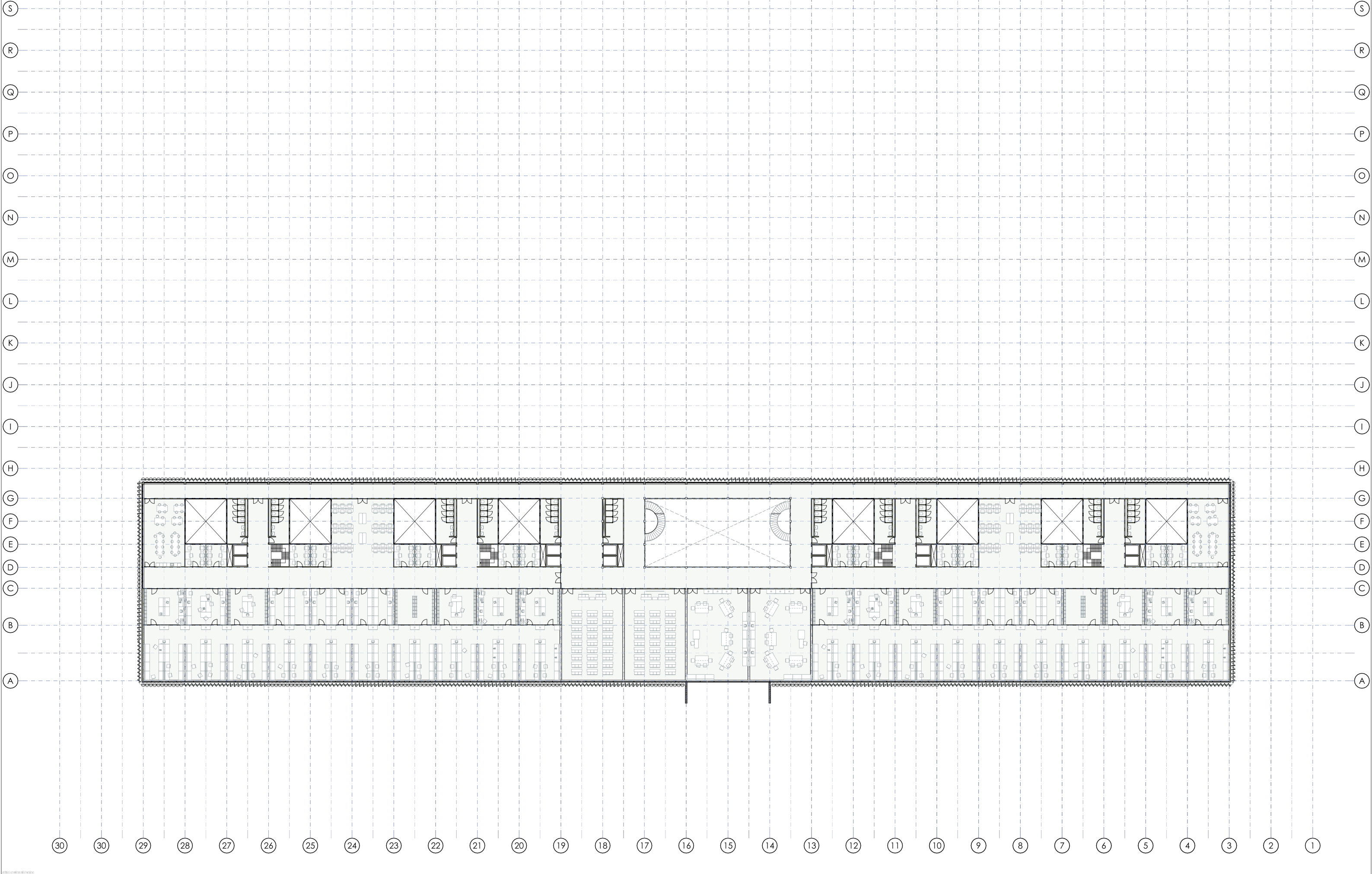
HOSPITAL



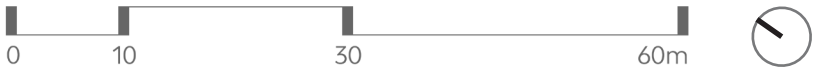
FIRST FLOOR | 1:400



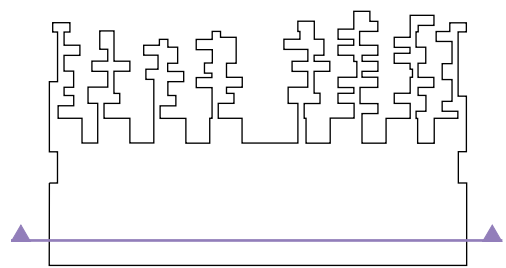
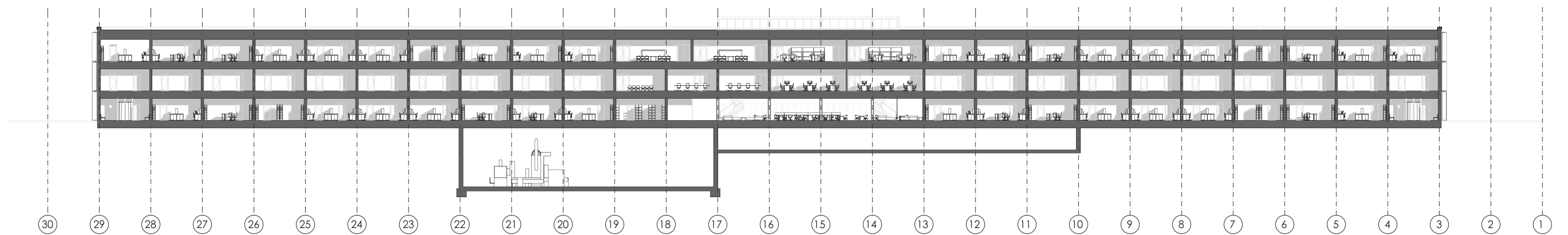
RESEARCH OFFICES



SECOND FLOOR | 1:400



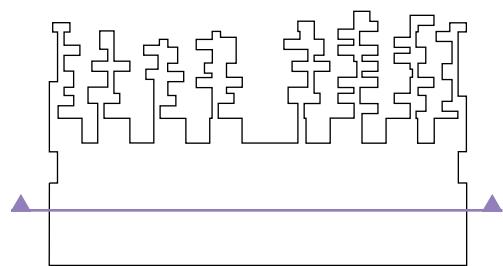
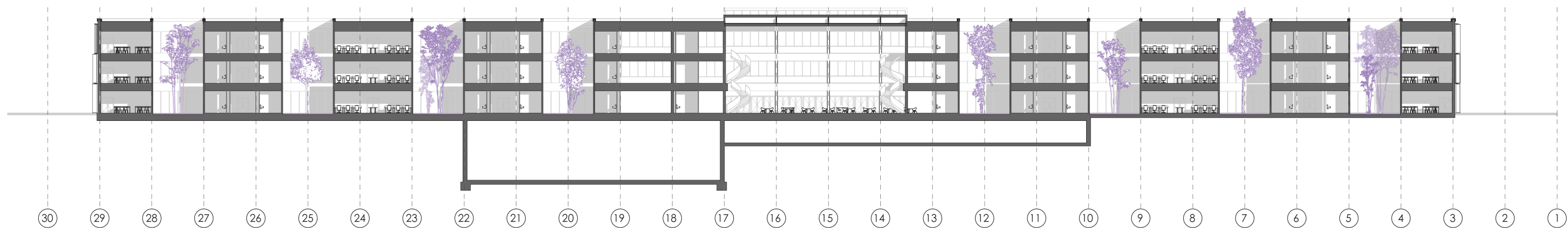
LABORATORY



LONGITUDINAL SECTION A - A



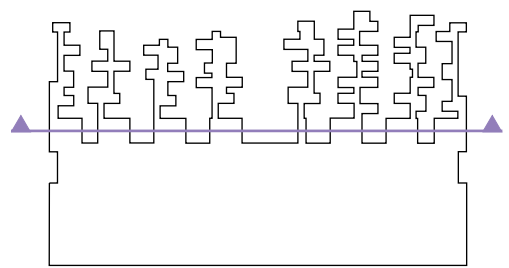
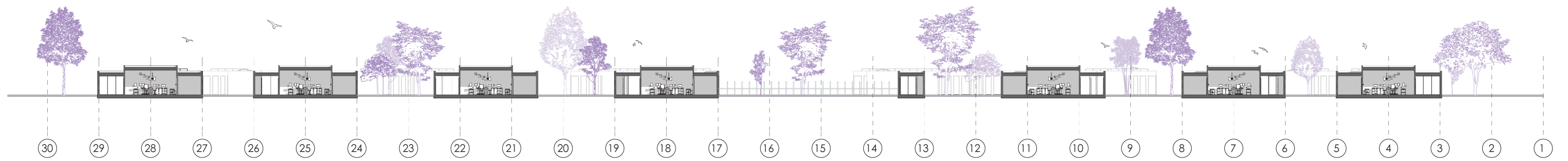
LABORATORY



LONGITUDINAL SECTION B - B



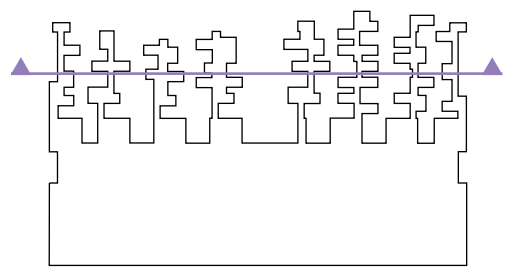
RESEARCH OFFICES



LONGITUDINAL SECTION C - C



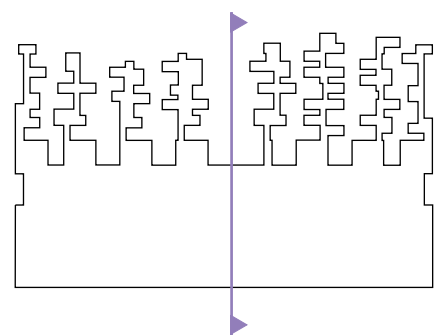
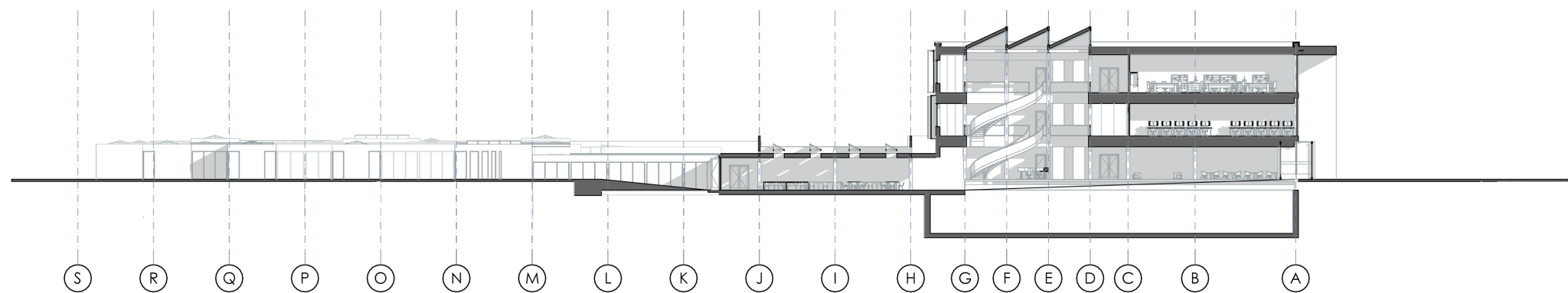
HOSPITAL



LONGITUDINAL SECTION D - D



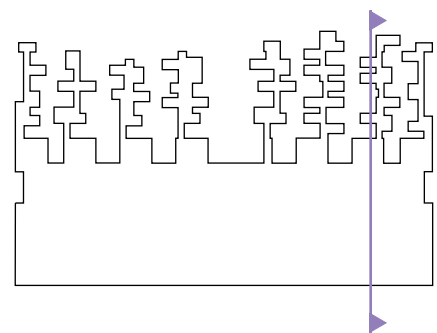
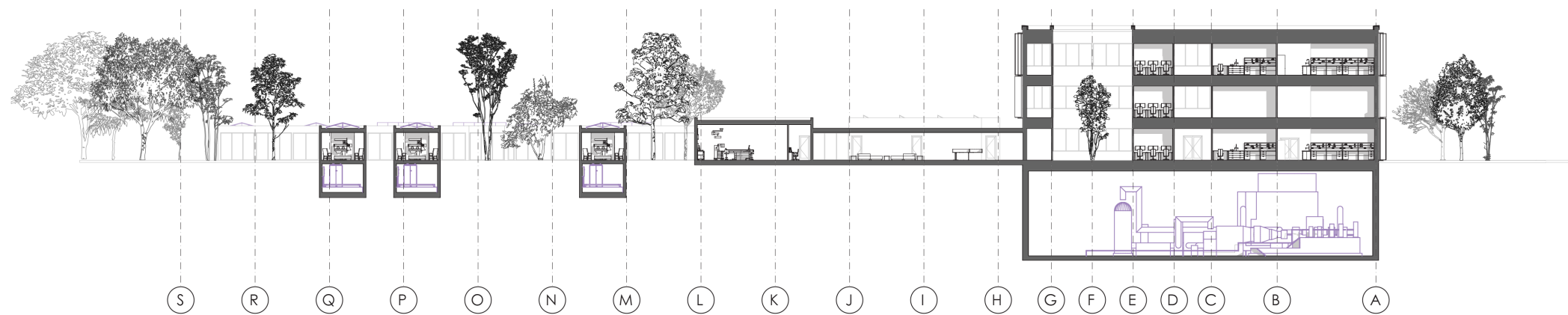
INCUBATION ROOMS



CROSS SECTION 1' - 1'

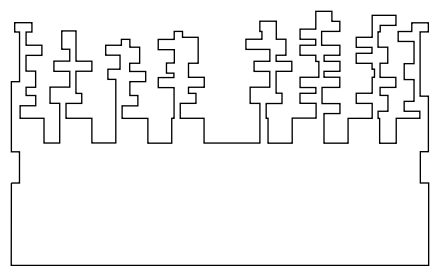


ENTRANCE HALL



CROSS SECTION 2' - 2'

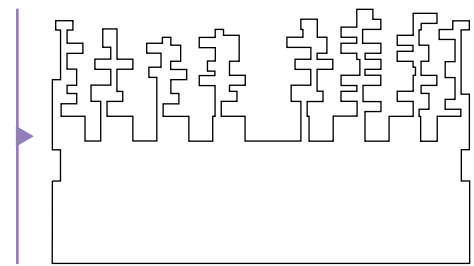




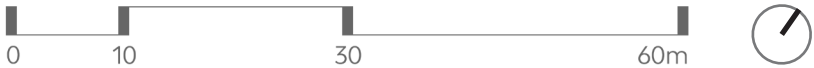
ELEVATIONS | 1:400



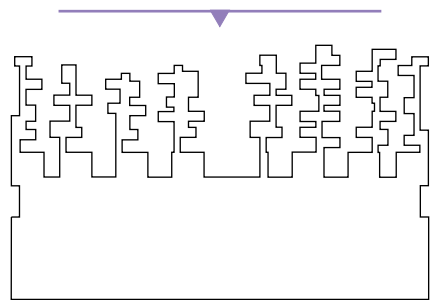
SOUTH-EAST FACADE



ELEVATIONS | 1:400



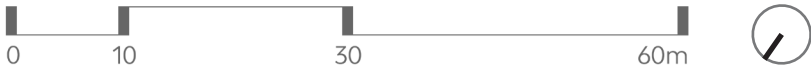
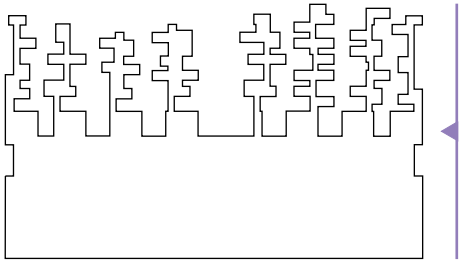
SOUTH-WEST FACADE



ELEVATIONS | 1:400



NORTH-WEST FACADE



ELEVATIONS | 1:400

NORTH-EAST FACADE



KEY SPACE

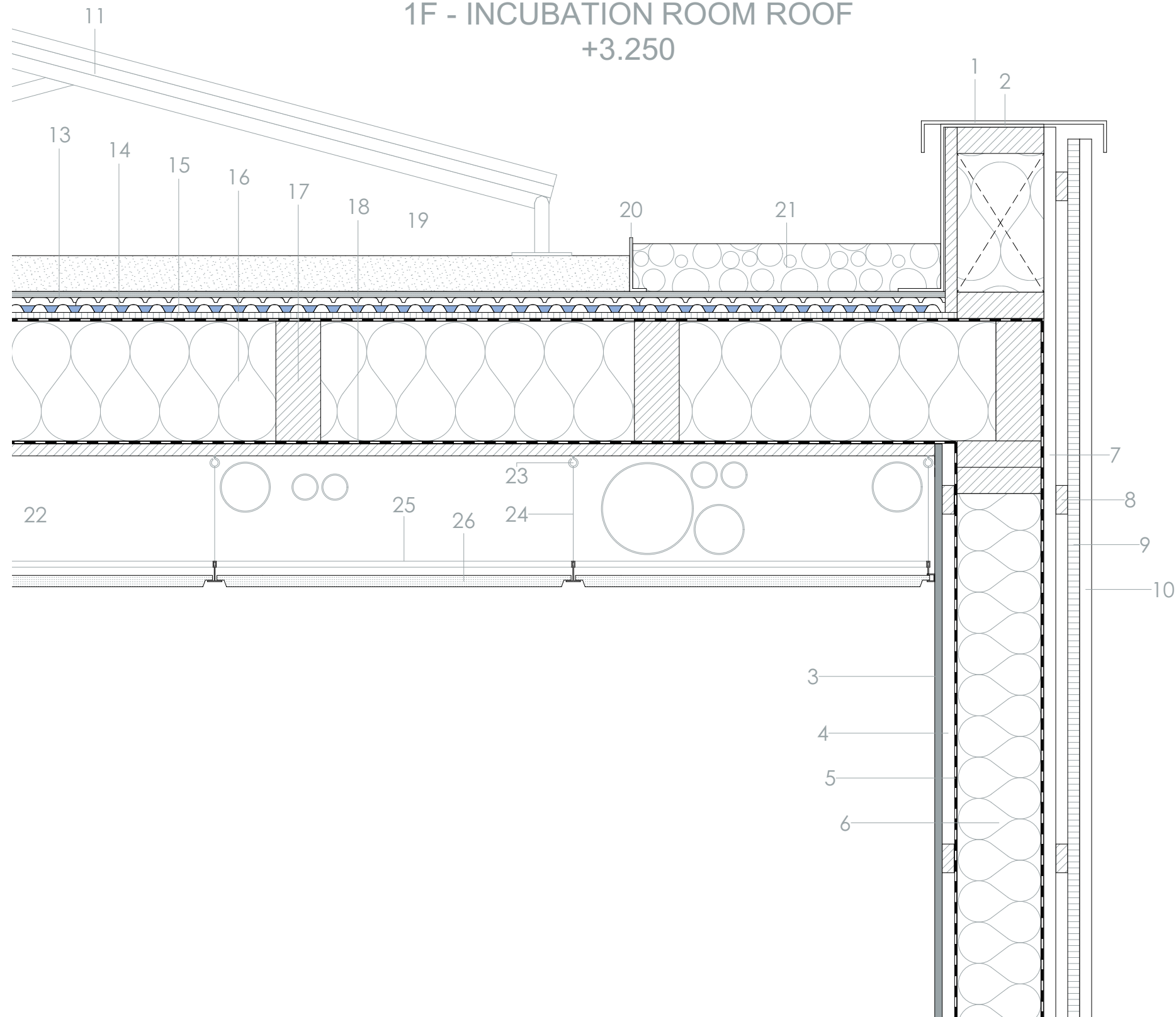
INCUBATION ROOMS



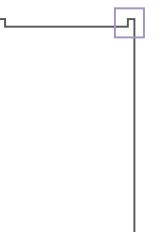
FRAGMENT | 1:20

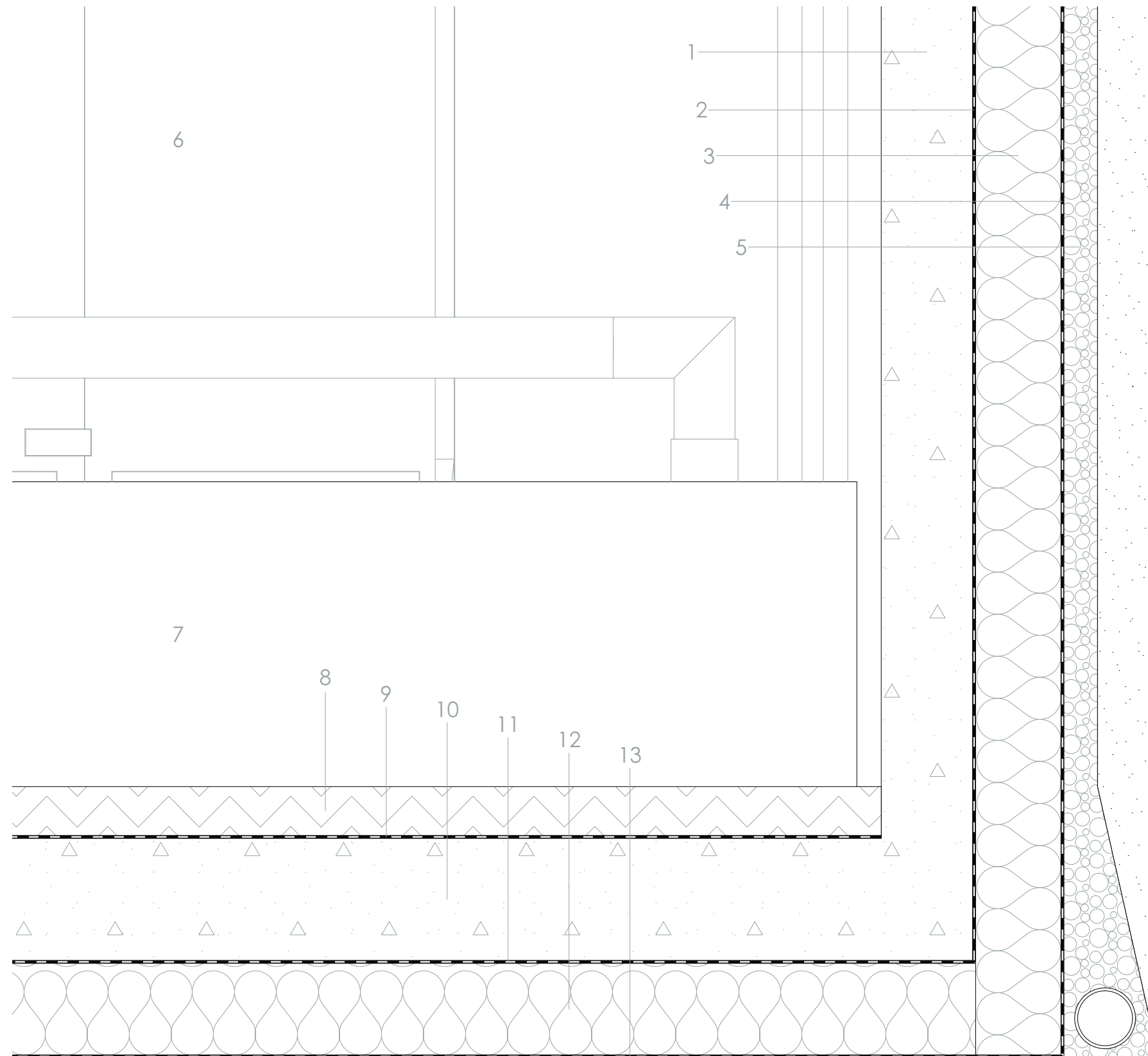
INCUBATION ROOMS

1F - INCUBATION ROOM ROOF +3.250

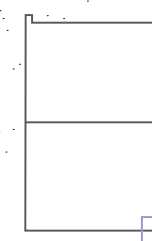


- 1 Aluminum parapet finishing
- 2 Side seal
- 3 PVC sheet 12,5 mm
- 4 Battens 20 x 48 mm
- 5 Vapour control foil
- 6 Wood fiber insulation 150 mm
- 7 Furring strips 20 mm
- 8 Battens 20 x 48 mm centre-to-centre 600 mm
- 9 Timber slats 20 mm
- 10 Timber slats 20 mm for fixation
- 11 Solar panels
- 12 Growth medium 60 mm
- 13 Filter membrane membrane 10 mm
- 14 Drainage layer/ protective layer/water retention 25 mm
- 15 Slip sheet (Root barrier / Protection layer) 10 mm
- 16 Wood fiber Insulation 200 mm
- 17 Timber 75 x 200 mm
- 18 Vapour control layer
- 19 Gypsum fiber board 20 mm
- 20 Separation corner profile
- 21 Gravel
- 22 Installation space 200 mm
- 23 Metallic dowel with hook L= 25mm
- 24 Galvanized steel cable
- 25 Metal structure with galvanized steel T profile, centre-to-centre 600 mm
- 26 Suspended ceiling 600 x 600 x 20 mm

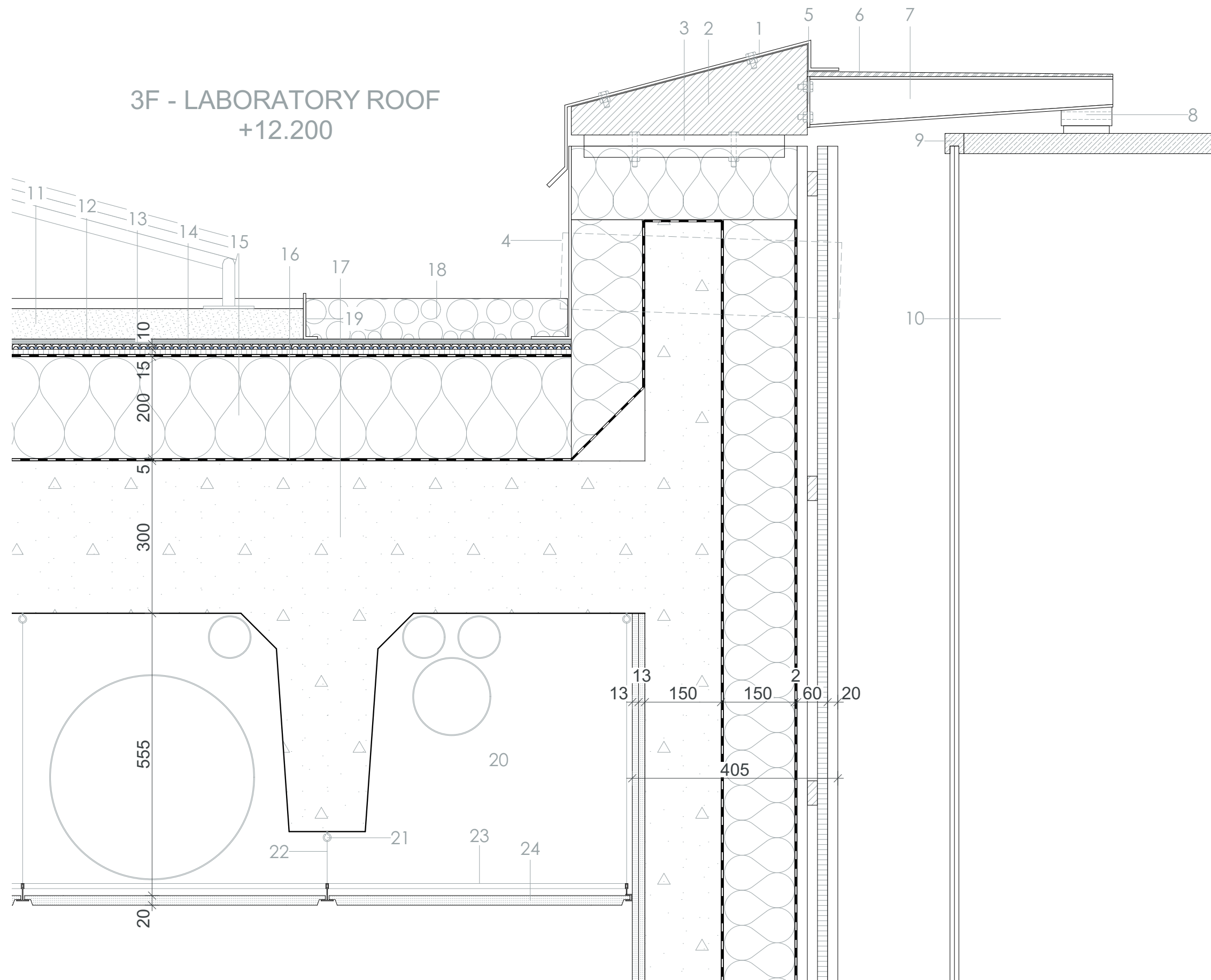




- 1 Concrete wall 150 mm
- 2 Vapour control foil
- 3 Wood fiber insulation 150 mm
- 4 Waterproof foil
- 5 PVC Drainage layer 50 mm
- 6 Heat pump system
- 7 Buffer bag filled with water for heat storage 4.000 x 6.000 x 0,5 m³
- 8 Screed floor 80 mm
- 9 PE foil
- 10 Concrete floor 200 mm
- 11 Vapour control layer
- 12 Wood fiber insulation 150 mm
- 13 Waterproofing layer



3F - LABORATORY ROOF +12.200



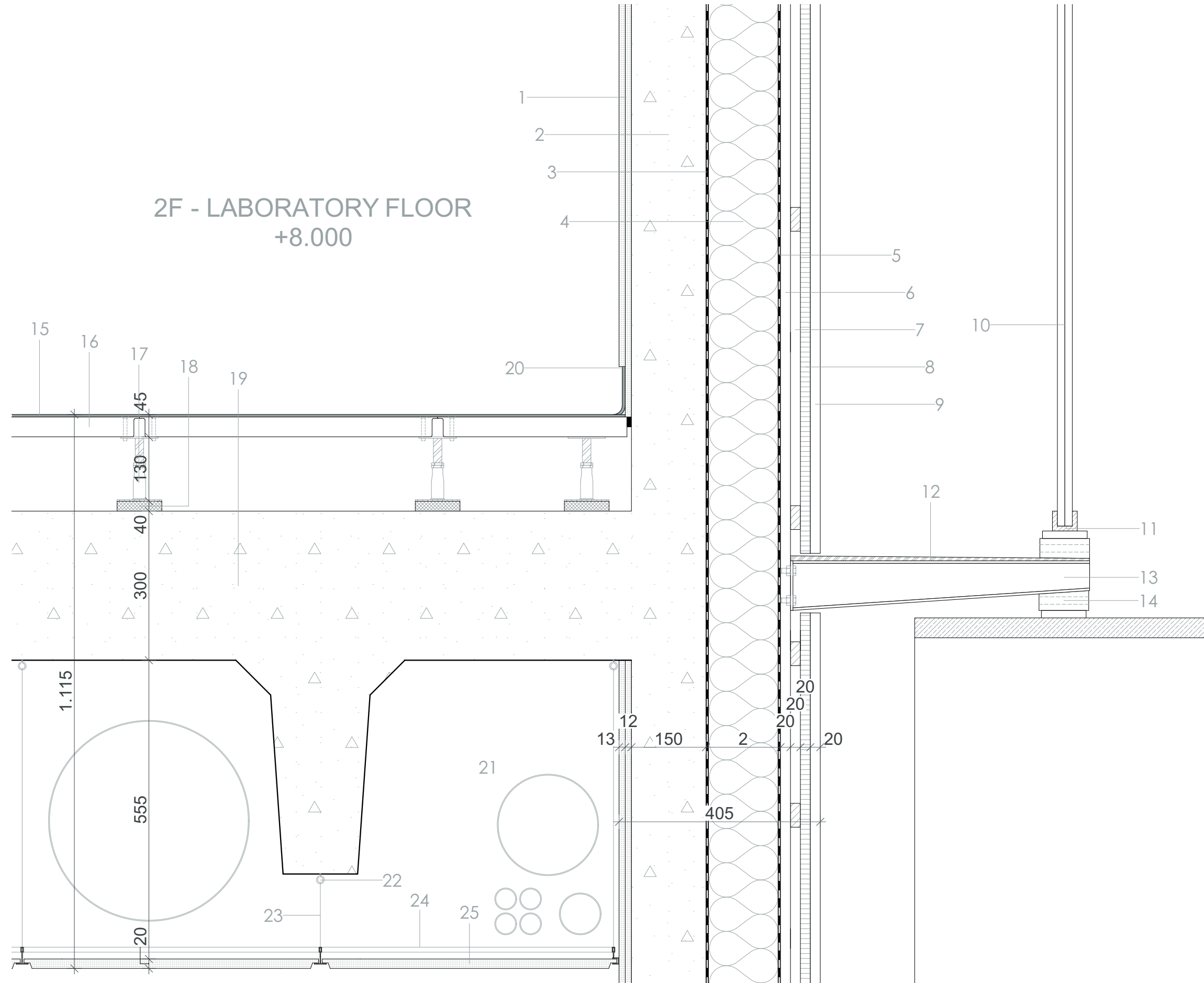
- 1 Aluminum parapet finishing
- 2 Tapered rigid insulation
- 3 Steel stiffener
- 4 Emergency drain
- 5 Steel plate
- 6 Aluminium sheet
- 7 Steel cantilever
- 8 Stainless steel glass mounting
- 9 PVC U-profile
- 10 Vertically pivoting fritted glass lamellas 50 mm x 3.900 mm

[Automatic system which can be manually overruled]

- 11 Growth medium 60 mm
- 12 Filter membrane membrane 10 mm
- 13 Drainage layer/ protective layer/water retention 25 mm
- 14 Slip sheet (Root barrier / Protection layer) 10 mm
- 15 Wood fiber Insulation 200 mm
- 16 Vapour control layer
- 17 Concrete composite decking floor 300 mm
- 18 Gravel
- 19 Separation corner profile
- 20 Installation space 555 mm
- 21 Metallic dowel with hook L= 25mm
- 22 Galvanized steel cable
- 23 Metal structure with galvanized steel T profile, centre-to-centre 600 mm
- 24 Suspended ceiling 600 x 600 x 20 mm



2F - LABORATORY FLOOR +8.000



- 1 2 x Plasterwork 10 mm
- 2 Concrete 150 mm
- 3 Vapour control foil
- 4 Wood fiber insulation 150 mm
- 5 Waterproofing layer
- 6 Furring strips 20 mm
- 7 Battens 20 x 48 mm centre-to-centre 600 mm
- 8 Vertical timber slats 20 mm
- 9 Timber slats 20 mm for fixation
- 10 Vertically pivoting fritted glass lamellas 50 mm x 3.900 mm

[Automatic system which can be manually overruled]

- 11 PVC U-profile
- 12 Aluminium sheet
- 13 Steel cantilever
- 14 Stainless steel glass mounting
- 15 Vinyl floor covering 3 mm
- 16 Floor panel 600 x 600 mm
- 17 Pedestal assembly centre-to-centre 600 mm
- 18 Contact insulation 20 mm
- 19 Concrete floor 300 mm
- 20 Vinyl wall base
- 21 Installation space 555 mm
- 22 Metallic dowel with hook L= 25mm
- 23 Galvanized steel cable
- 24 Metal structure with galvanized steel T profile, centre-to-centre 600 mm
- 25 Suspended ceiling 600 x 600 x 20 mm

