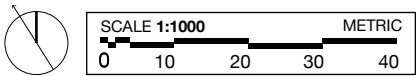


COV	COVER
G101	SITE PLAN I
G102	SITE PLAN II
G301	DESIGN AND PERFORMANCE I
G301	DESIGN AND PERFORMANCE II
A101	FLOOR PLAN
A102	ROOF PLAN
S101	FOUNDATION PLAN
S102	POST-BEAM STRUCTURE
A201	SOUTH ELEVATION
A202	WEST ELEVATION
A203	EAST ELEVATION
A204	NORTH ELEVATION
A30-	EAST WEST SECTIONS
A30-	NORTH SOUTH SECTIONS
G001	BIBLIOGRAPHY



G101 SITE PLAN



LOCATION

SAN JUAN DE ALACANT, ALICANTE (SPAIN)

38.405142, -0.430818

HOT MIXED WEATHER

MAIN OCCUPANCY RATES: SUMMER

CONSOLIDATED URBAN AREA

LOW DENSITY

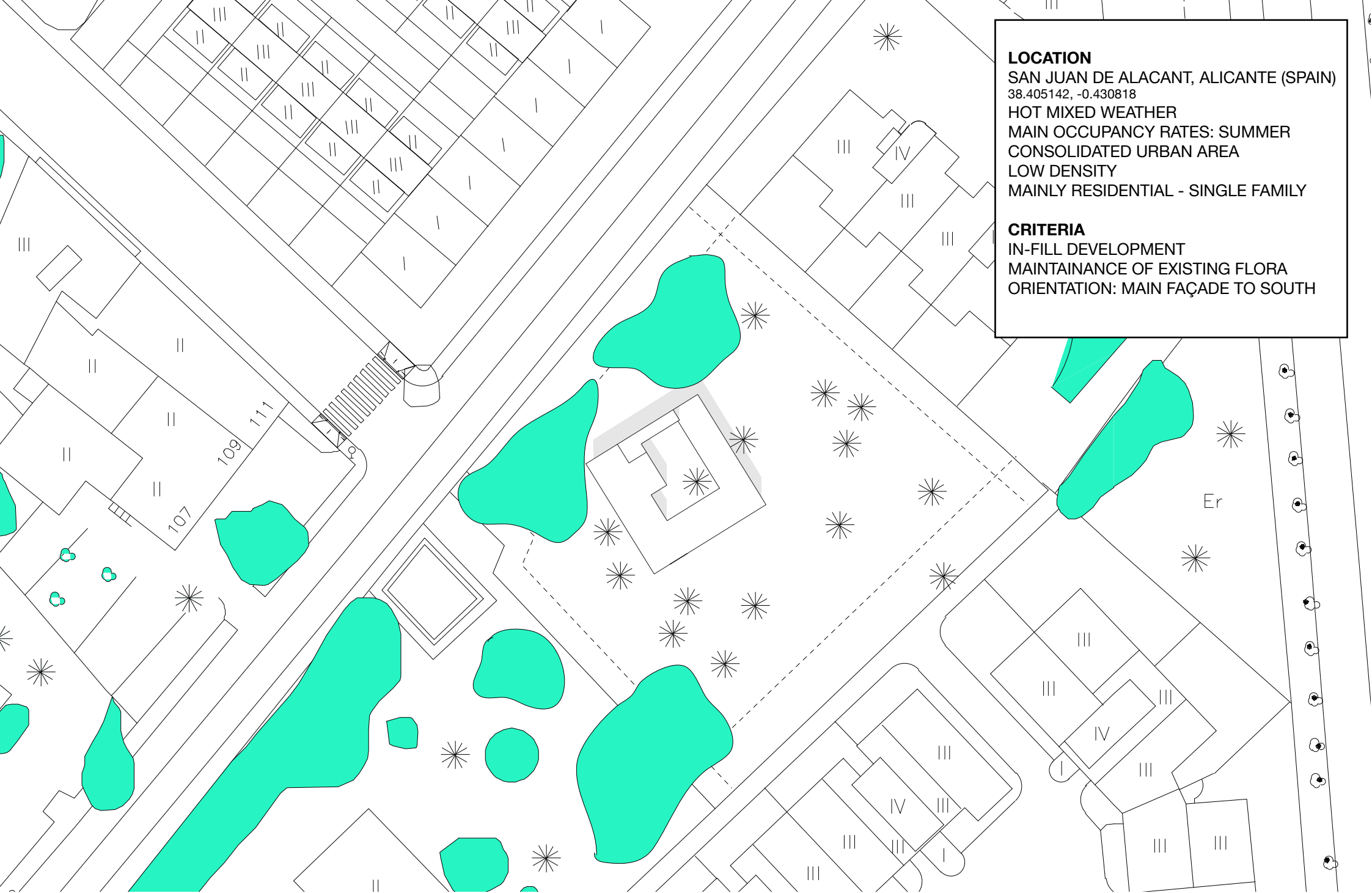
MAINLY RESIDENTIAL - SINGLE FAMILY

CRITERIA

IN-FILL DEVELOPMENT

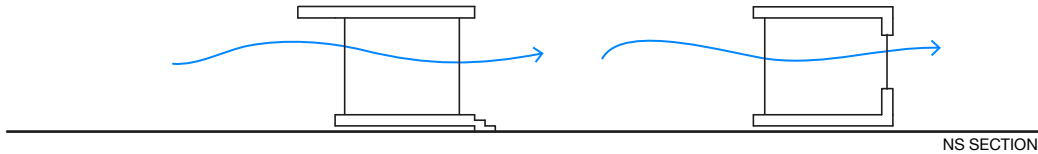
MAINTAINANCE OF EXISTING FLORA

ORIENTATION: MAIN FAÇADE TO SOUTH



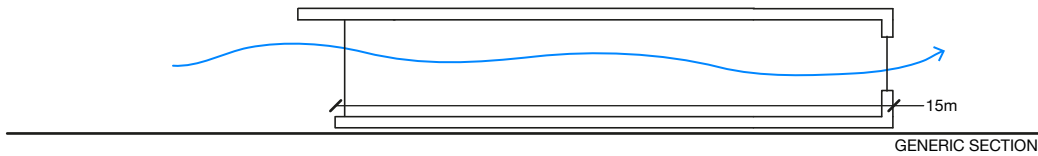
WINDOW ALIGNMENT TO ENSURE CROSSED VENTILATION

(S) CROSSED VENTILATION THROUGH PATIO



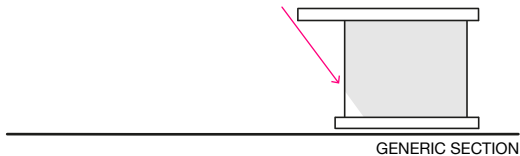
MAXIMUM BUILDING DEPTH LIMITED TO ENSURE CROSSED VENTILATION

(S) INTERIOR CROSSED VENTILATION

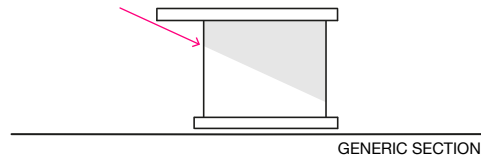


OVERHANG DIMENSION SOUTH AND WEST FAÇADES

(S) SHADING

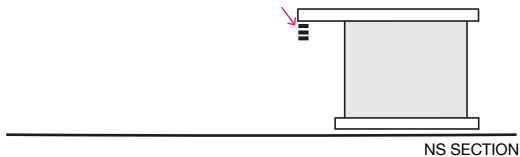


(W) SUNLIGHT

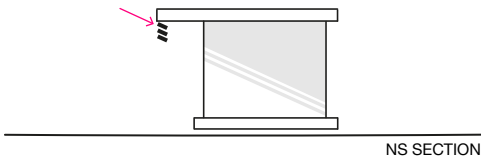


HORIZONTAL LOOVERS AS EXTRA SHADING IN SOUTH FAÇADE

(S) SHADING

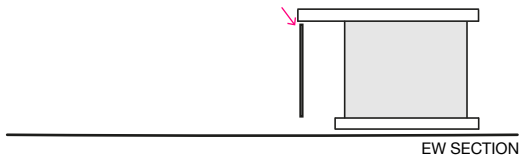


(W) SUNLIGHT

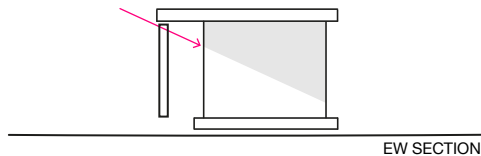


VERTICAL LOOVERS AS EXTRA SHADING IN WEST FAÇADE

(S) SHADING

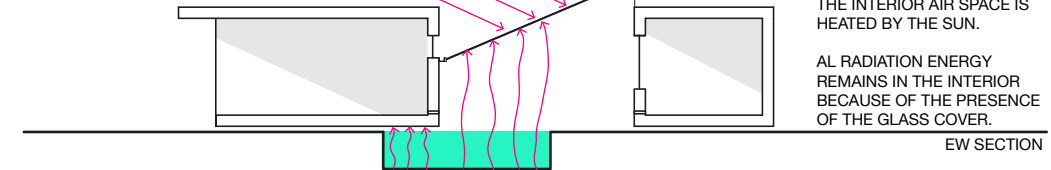


(W) SUNLIGHT

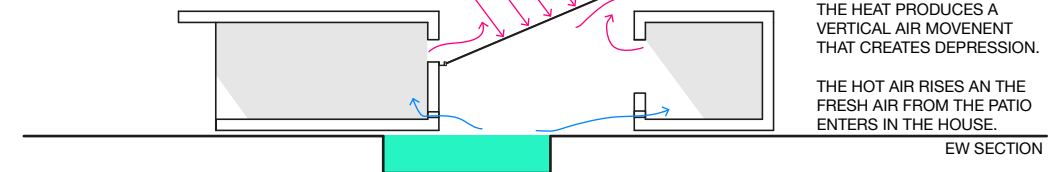


PATIO GLASS COVER

(W) WINTERHOUSE EFFECT

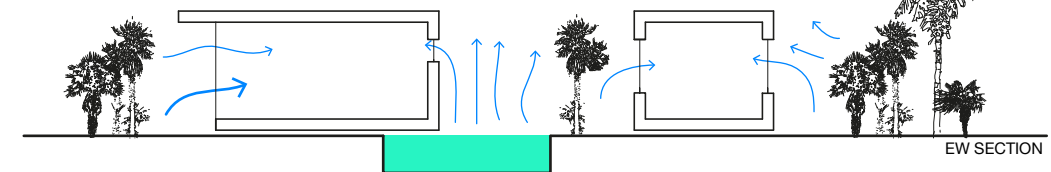


(S) STACK EFFECT VENTILATION



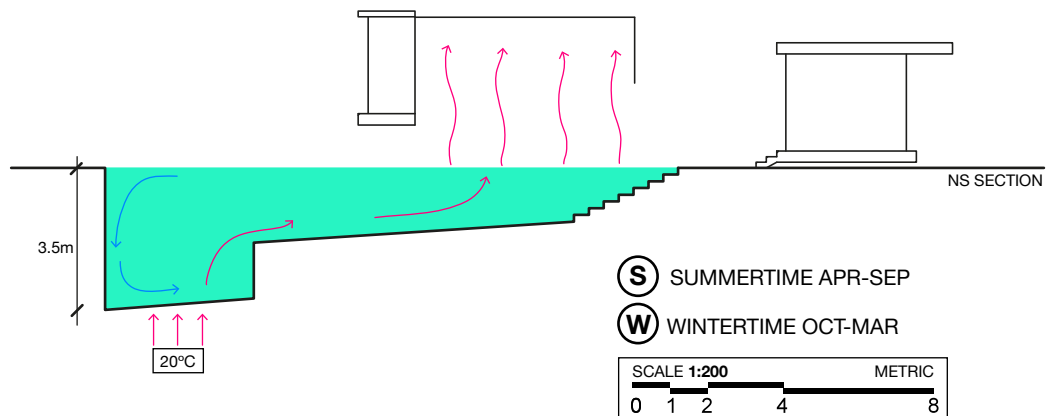
GREEN AND WATER

(S) EVAPO-TRANSPIRATION CONTRIBUTES TO REFRESH THE AIR



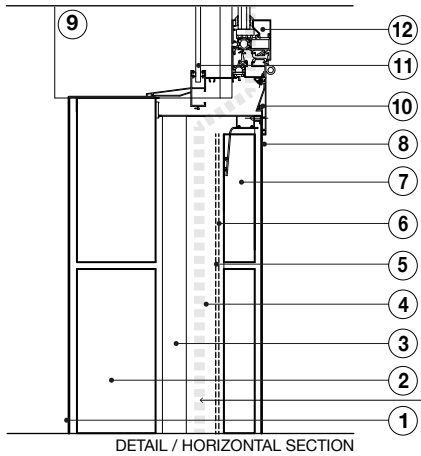
GEOTHERMAL ENERGY

(W) WATER CONVECTION AS TRANSPORTATION OF HEAT INTO THE PATIO



WALL TYPE SELECTION - CONTINUOUS ENVELOPE

(S) PROPER INSULATION



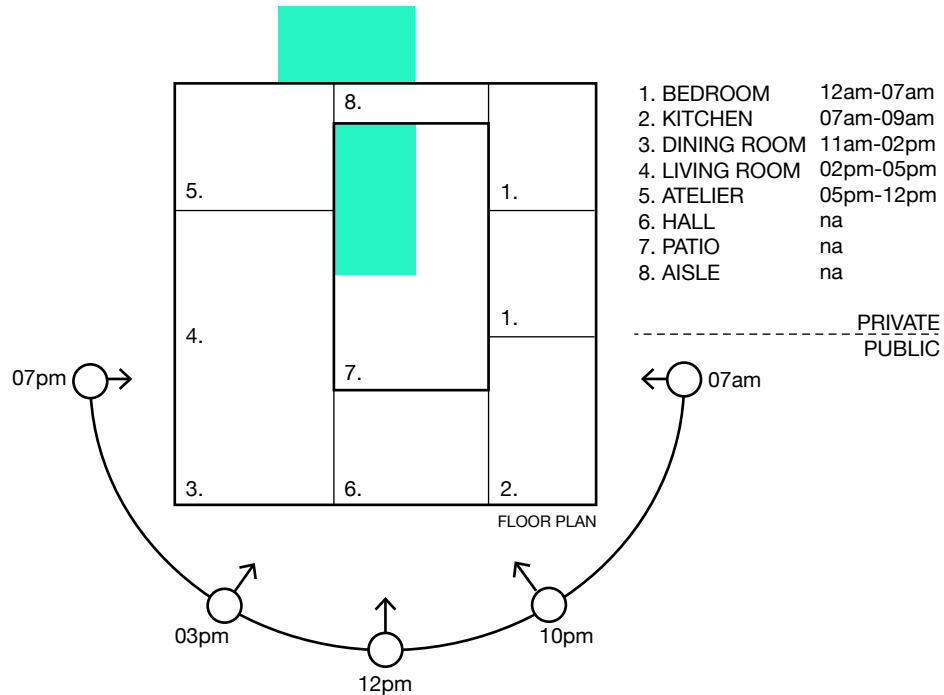
(W) THERMAL MASS STORAGE

- A] EXTERIOR WALL (NO STRUCTURAL)**
1. 0,2cm CEMENT STUCCO
 2. 11.5cm BRICK VENEER
 3. 5cm AIR GAP
 4. 5cm INSULATION
 5. WATERPROOF BARRIER
 6. VAPOR BARRIER
 7. 7cm BRICK VENEER
 8. 0,2cm INTERIOR PAINTING
 9. ALUMINIUM WINDOW FLASHING
 10. ALUMINIUM WINDOW PRE-FRAME
 11. ALUMINIUM WINDOW FRAME
 12. PVC BLIND

CONTINUITY
INSULATION-FRAME-GLASS

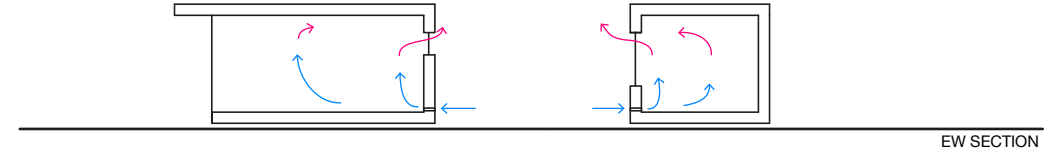
PROGRAM-ORIENTED ORIENTATION

(W) (S) USE TIMING FOLLOWS THE SUN PATTERN



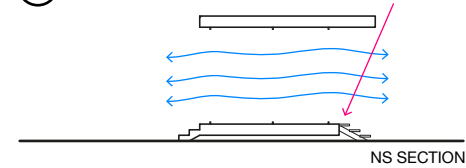
LOW AND HIGH OPENINGS FOR CONVECTION

(S) AIR RENEWAL THROUGH CONVECTION

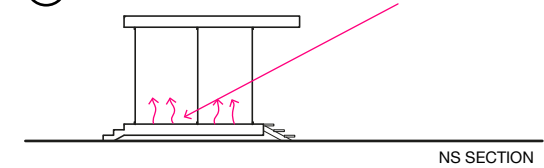


WINTER GARDEN IN SOUTH FAÇADE

(S) CROSSED VENTILATION



(S) HEATING BY WINTERHOUSE EFFECT



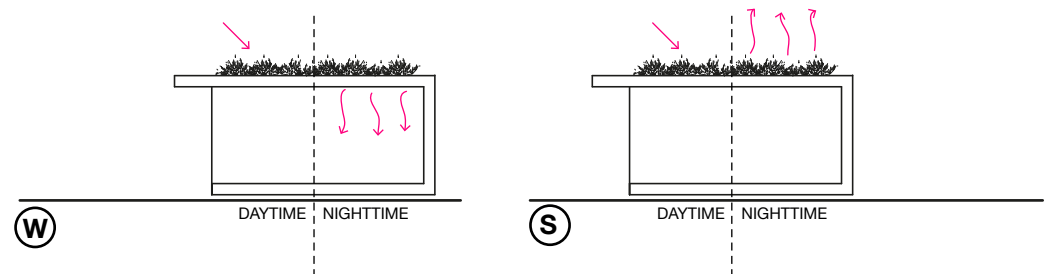
VEGETAL MASS

(S) FACING WEST PROVIDES EXTRA AFTERNOON SHADOW



GREEN ROOF

(W) (S) THERMAL STORAGE AND IMPROVEMENT OF INSULATION



SCALE 1:200 METRIC
0 1 2 4 8

WINDOW TYPES

- A

TYPE

LENGTH

HIGHT

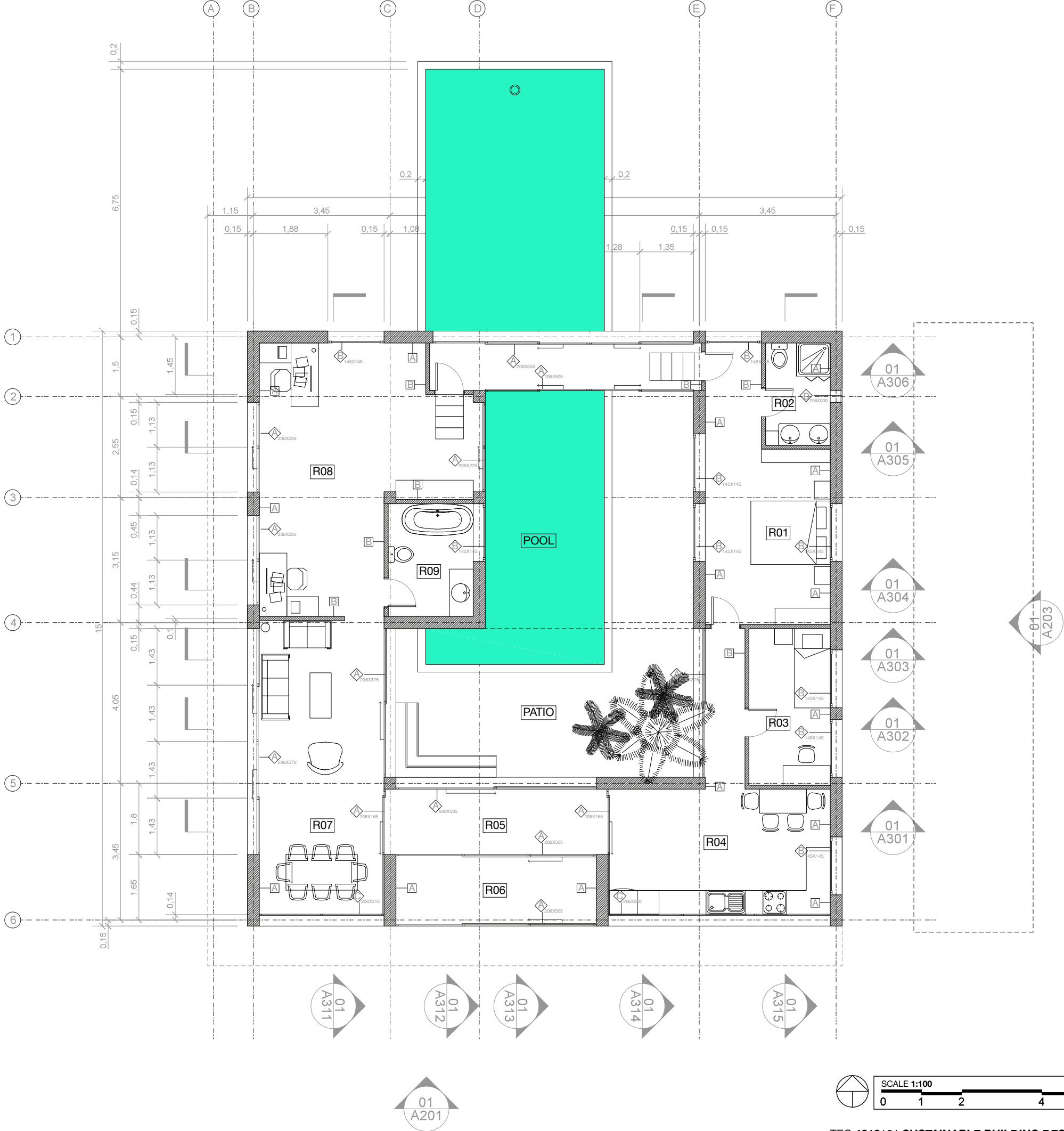
206X570
- A>SLIDING WINDOW
FIVERGLASS INSULATED FRAME
THERMAL BRIDGING BREAK
TRIPLE GLAZING
- B>SWING WINDOW
PVC FRAME
THERMAL BRIDGING BREAK
DOUBLE GLAZING
- C>FIXED WINDOW I
FIVERGLASS INSULATED FRAME
TRIPLE GLAZING
- D>FIXED WINDOW II
ALUMINIUM FRAME
FRAME INSERTED IN WALL
DOUBLE GLAZING

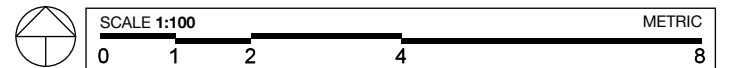
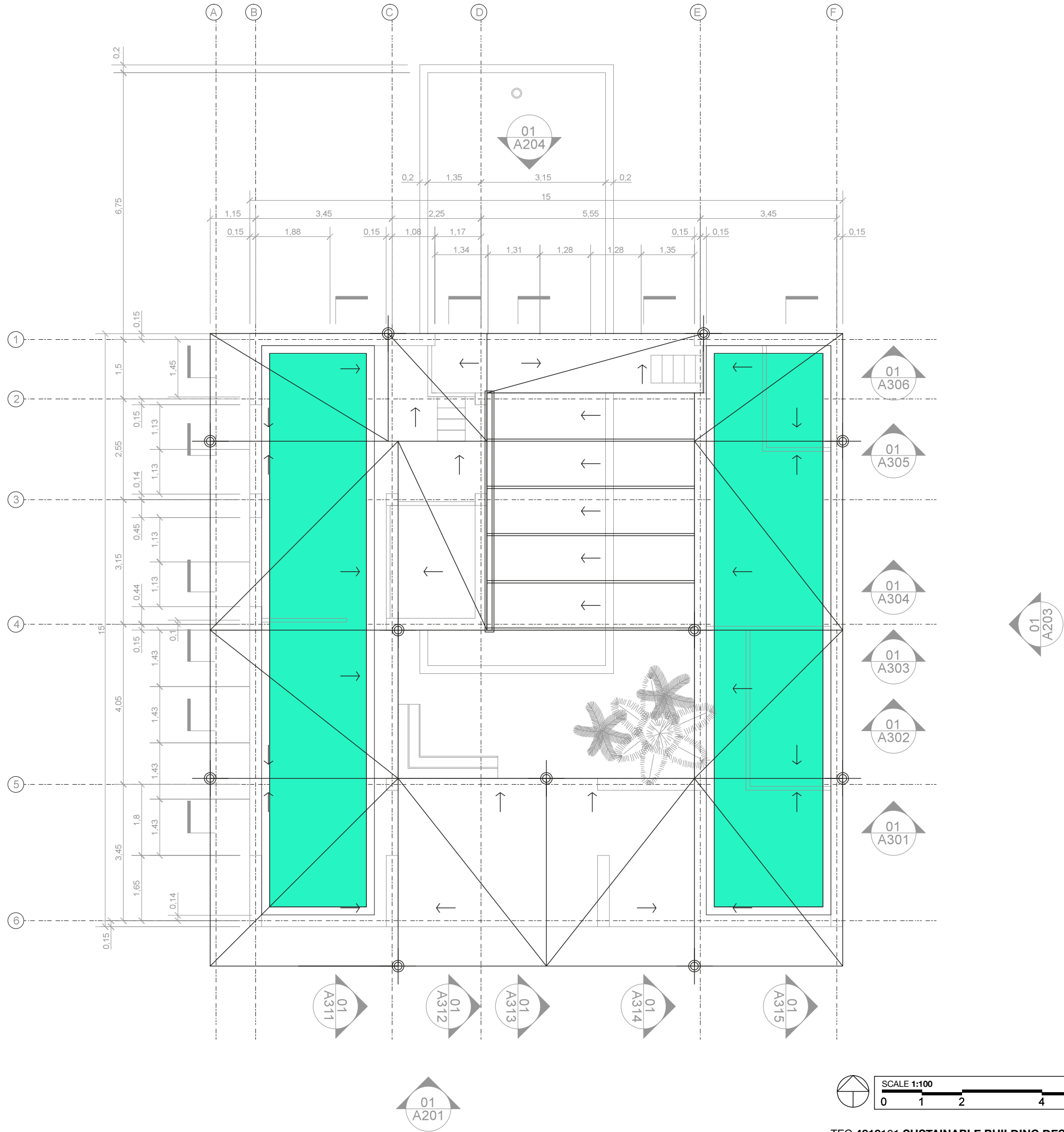
WALL TYPES

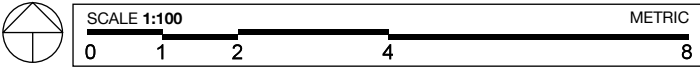
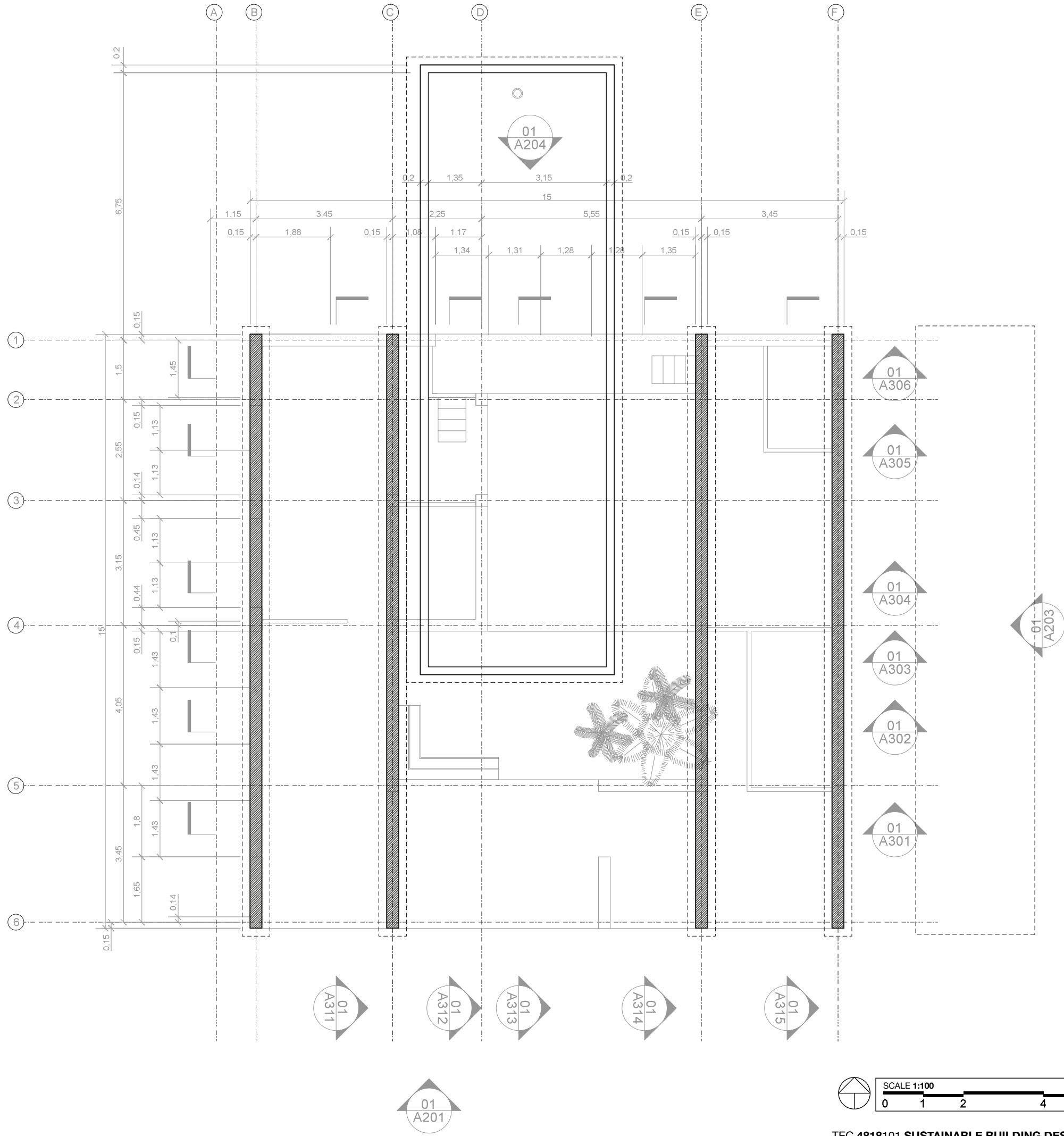
- A>EXTERIOR WALL (NO STRUCTURAL)
(1) 0,2cm CEMENT STUCCO
(1) 11.5cm BRICK VENEER
(1) 5cm AIR GAP
(1) 5cm INSULATION
(1) WATERPROOF BARRIER
(1) VAPOR BARRIER
(1) 7cm BRICK VENEER
(1) 0,2cm INTERIOR PAINTING
- B>INTERIOR WALL (NO STRUCTURAL)
(1) 0,2cm INTERIOR PAINTING
(1) 0,4cm PLADUR TABLE
(1) 4cm INSULATION
(1) 0,4cm PLADUR TABLE
(1) 0,2cm INTERIOR PAINTING
ALUMINIUM PREFABRICATED STUDS

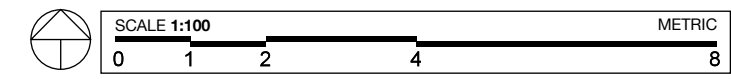
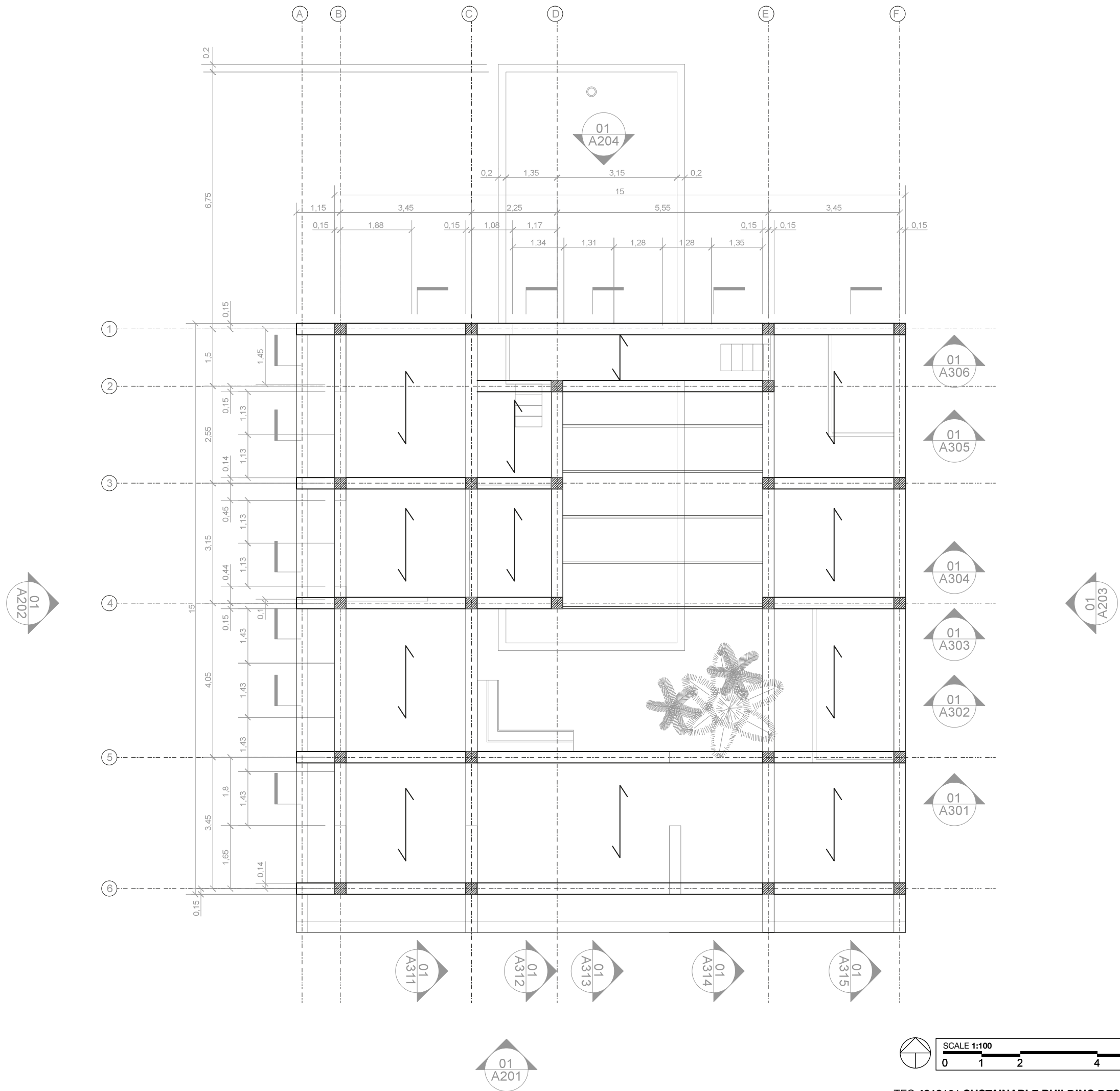
ROOM LIST

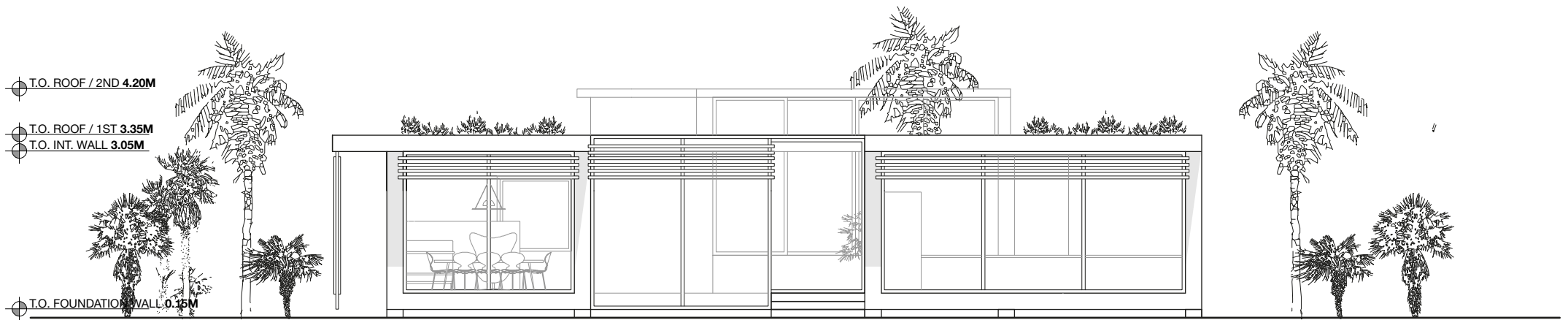
- R01 MAIN BEDROOM
- R02 BATHROOM
- R03 BEDROOM
- R04 KITCHEN
- R05 HALL
- R06 WINTER GARDEN
- R07 LIVING ROOM
- R08 ATELIER
- R09 BATRHOOM
- PATIO





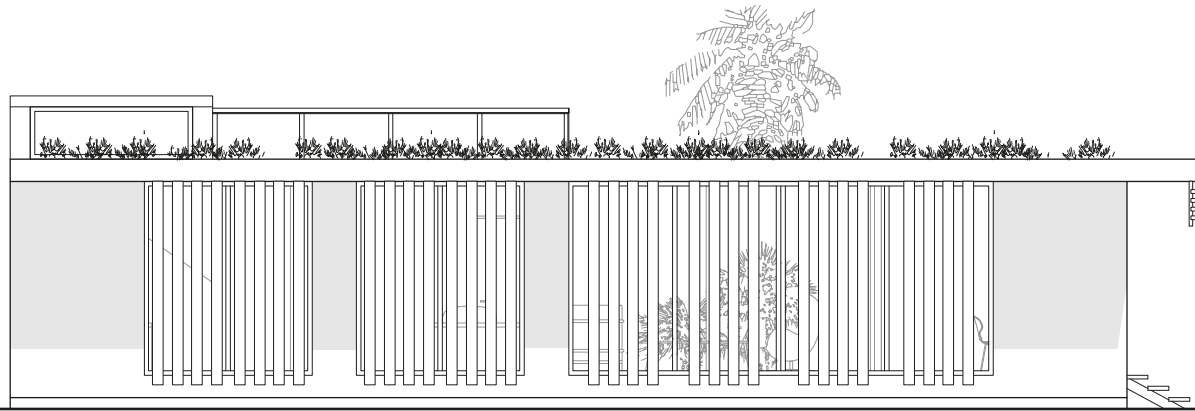






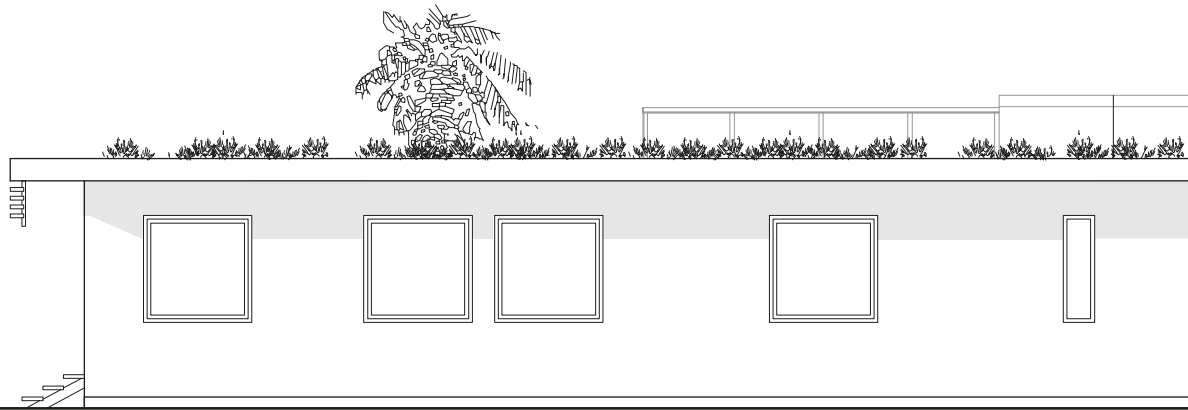
⊕ T.O. ROOF / 2ND 4.20M
⊕ T.O. ROOF / 1ST 3.35M
⊕ T.O. INT. WALL 3.05M

⊕ T.O. FOUNDATION WALL 0.15M



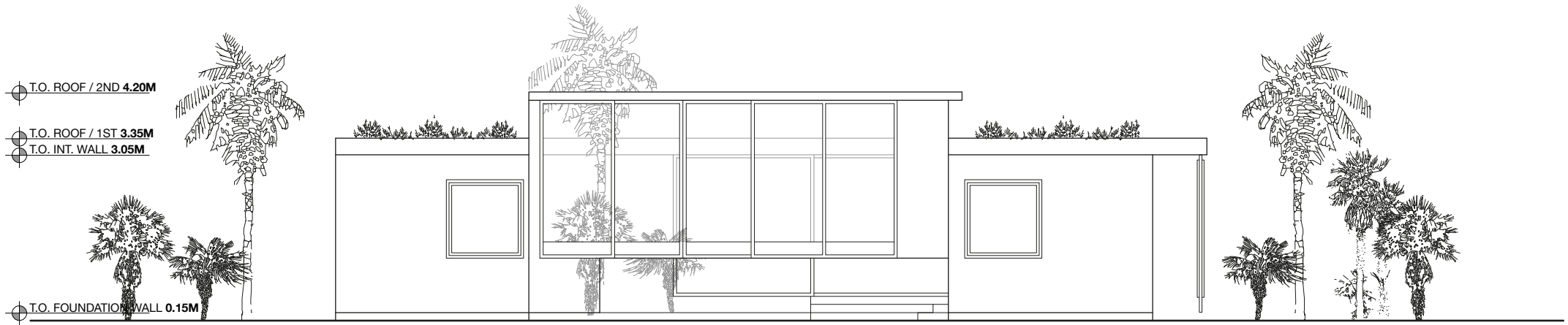
T.O. ROOF / 2ND 4.20M
T.O. ROOF / 1ST 3.35M
T.O. INT. WALL 3.05M

T.O. FOUNDATION WALL 0.15M

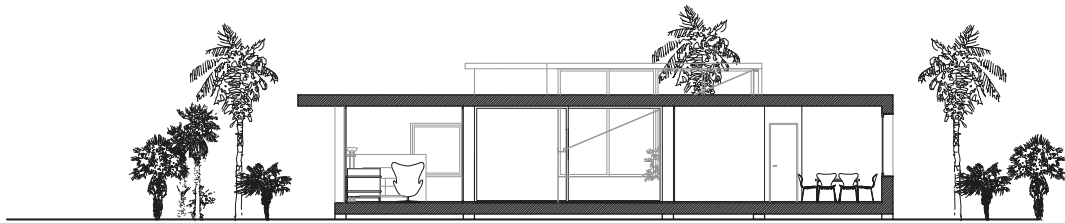


T.O. ROOF / 2ND 4.20M
T.O. ROOF / 1ST 3.35M
T.O. INT. WALL 3.05M

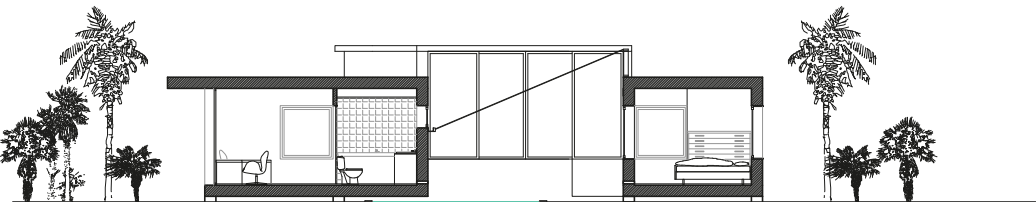
T.O. FOUNDATION WALL 0.15M



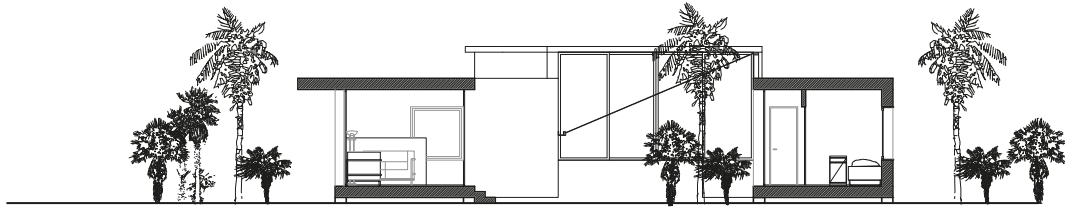
SCALE 1:100 METRIC
0 1 2 4 8



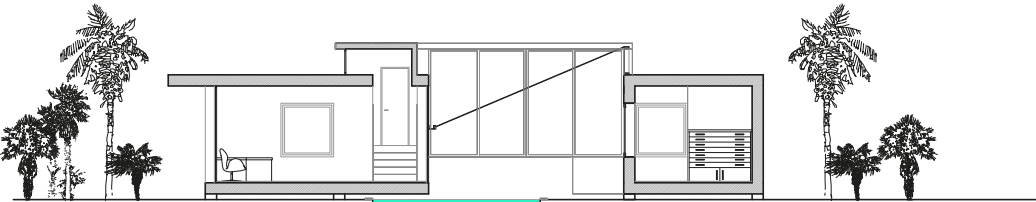
A301 EAST WEST SECTION



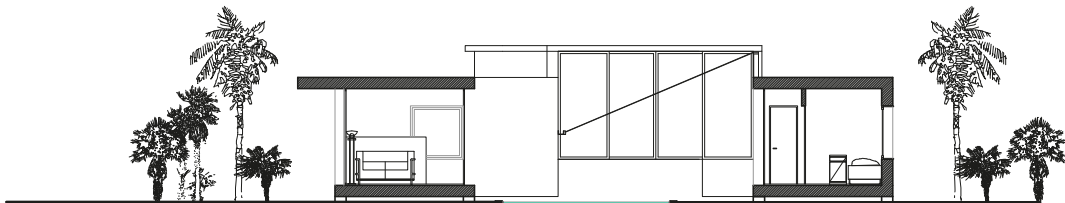
A304 EAST WEST SECTION



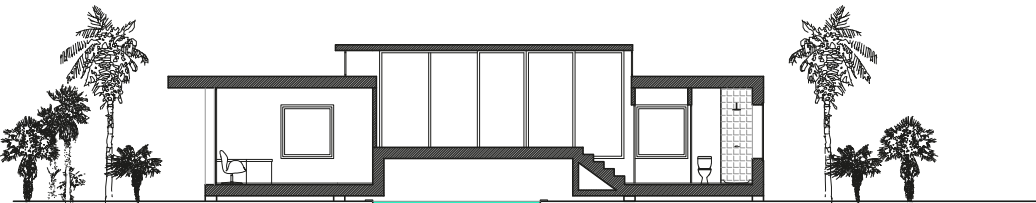
A302 EAST WEST SECTION



A305 EAST WEST SECTION

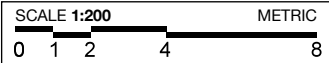


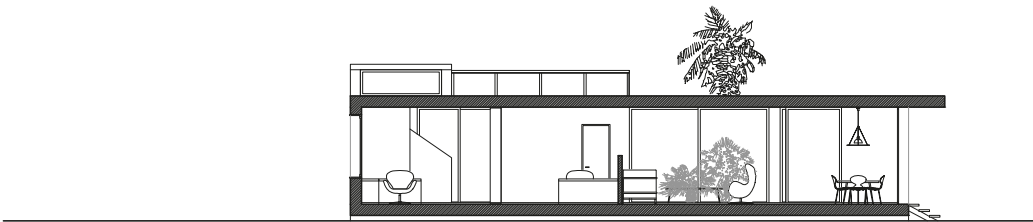
A303 EAST WEST SECTION



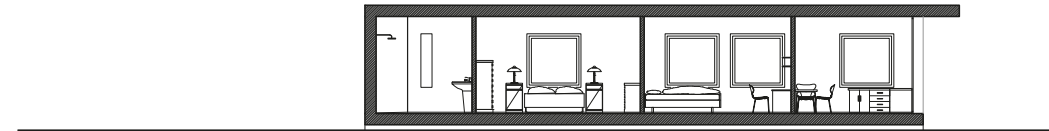
A306 EAST WEST SECTION

A30- EAST WEST SECTIONS





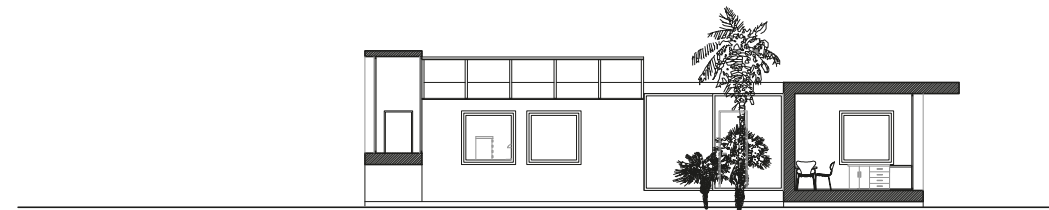
A307 NORTH SOUTH SECTION



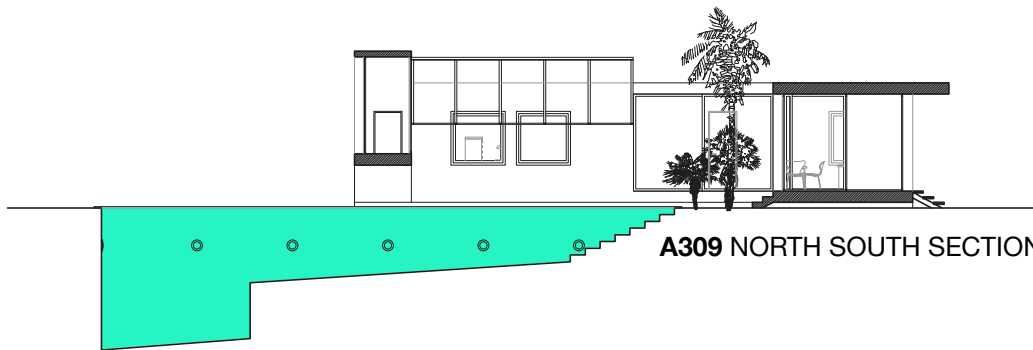
A310 NORTH SOUTH SECTION



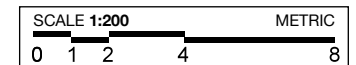
A308 NORTH SOUTH SECTION



A311 NORTH SOUTH SECTION



A309 NORTH SOUTH SECTION



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