



SCHEMATIC DESIGN DRAWING

Deliverable #1
April 1st



National Chiao Tung University

1001 TA HSUEH ROAD, HSINCHU, TAIWAN 30010

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GE-001 COVER SHEET



1. GENERAL

- GE-001 COVER SHEET
- GE-101 SHEET LIST
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- GE-301 GENERAL ABBREVIATIONS
- GE-401 EXTERIOR RENDERING

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- AR-021 Floor Plan
- AR-031 Roof Plan
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- AR-052 Maximum Measurable Area.
- AR-101 Site Elevation.
- AR-111 East Elevation
- AR-112 North Elevation
- AR-113 South Elevation
- AR-114 West Elevation
- AR-111 Building Elevations
- AR-201 Longitudinal Sections
- AR-211 Transversal Sections

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4. INTERIORS (IN)

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16. PUBLIC TOUR (PT)



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Consultants:

Note:

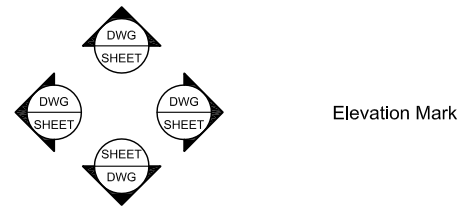
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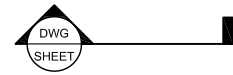
DWG. Title
SHEET LIST

DWG. No.
GE-101

General Symbols



Elevation Mark



Section Mark



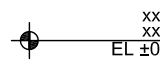
Room Tag



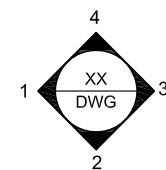
Window/Door Tag



Grid Number



Elevation Marker



Interior Elevation Marker

Project:



Institution:



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DWG. Title
GENERAL SYMBOLS

DWG. No.
GE-201

General Abbreviations

# Pound: OR Number	MAX: Maximum
&: And	MO: Masonry Opening
@: At	MECH: Mechanical
ACT: Acoustic Ceiling Tile	MEMBR: Membrane
AD: Area Drain	MIN: Minimum
AFF: Above Finished Floor	MRGWB: Moisture-Resistant Gypsum Wall Board
ALUM: Aluminum	MTL: Metal
ANOD: Anodized	NIC: Not In Contract
BSMT: Basement	NO: Number
BYND: Beyond	NOM: Nominal
BOT: Bottom	OC: On Center
CIP: Cast In Place	OH: Opposite Hand
CHNL: Channel	OZ: Ounce
CJ: Control Joint	PCC: Pre-Cast Concrete
CLG: Ceiling	PLUMB: Plumbing
CLR: Clear	PLYD: Plywood
CMU: Concrete Masonry Unit	PT: Pressure Treated
COL: Column	PNT: Paint or Painted
COMPR: Compressible	PVC: Polyvinyl Chloride
CONC: Concrete	RBR: Rubber
CONT: Continuous	RCP: Reflected Ceiling Plan
CPT: Carpet	RD: Roof Drain
CT: Ceramic Tile	REQD: Required
CTYD: Courtyard	RM: Room
DBL: Double	SIM: Similar
DEMO: Demolish or Demolition	SPEC: Specified OR Specification
DIA: Diameter	SPK: Sprinkler or Speaker
DIM: Dimension	SSTL: Stainless Steel
DIMS: Dimensions	STC: Sound Transmission Coefficient
DN: Down	STL: Steel
DR: Door	STRUCT: Structure or Structural
DWG: Drawing	T&G: Tongue And Groove
EA: Each	TELE: Telephone
EJ: Expansion Joint	TLT: Toilet
EL: Elevation	TO: Top Of
ELEC: Electrical	TOC: Top Of Concrete
ELEV: Elevator or Elevation	TOS: Top Of Steel
EPDM: Ethylene Propylene Diene M-Class (Roofing)	TPD: Toilet Paper Dispenser
EQ: Equal	T/D: Telephone/Data
EXIST: Existing	TYP: Typical
EXP JT: Expansion Joint	UNO: Unless Noted Otherwise
EXT: Exterior	U/S: Underside
FD: Floor Drain or Fire Department	VIF: Verify In Field
FEC: Fire Extinguisher Cabinet	VP: Vision Panel
FIXT: Fixture	W/: With
FLR: Floor	WD: Wood
FM: Filled Metal	
FO: Face Of	
FND: Foundation	
GA: Gauge	
GALV: Galvanized	
GWB: Gypsum Wall Board	
HC: Hollow Core	
HI: High	
HM: Hollow Metal	
HP: High Point	
HR: Hour	
HVAC: Heating, Ventilating, And Air Conditioning	
IRGWB: Impact Resistant Gypsum Wall Board	
ILO: In Lieu Of	
INSUL: Insulated or Insulation	
INT: Interior	
LO: Low	

Project:



Institution:



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DWG. Title

GENERAL ABBREVIATIONS

DWG. No.

GE-301



Project:



Orchid House

Institution:


 國立交通大學
National Chiao Tung University

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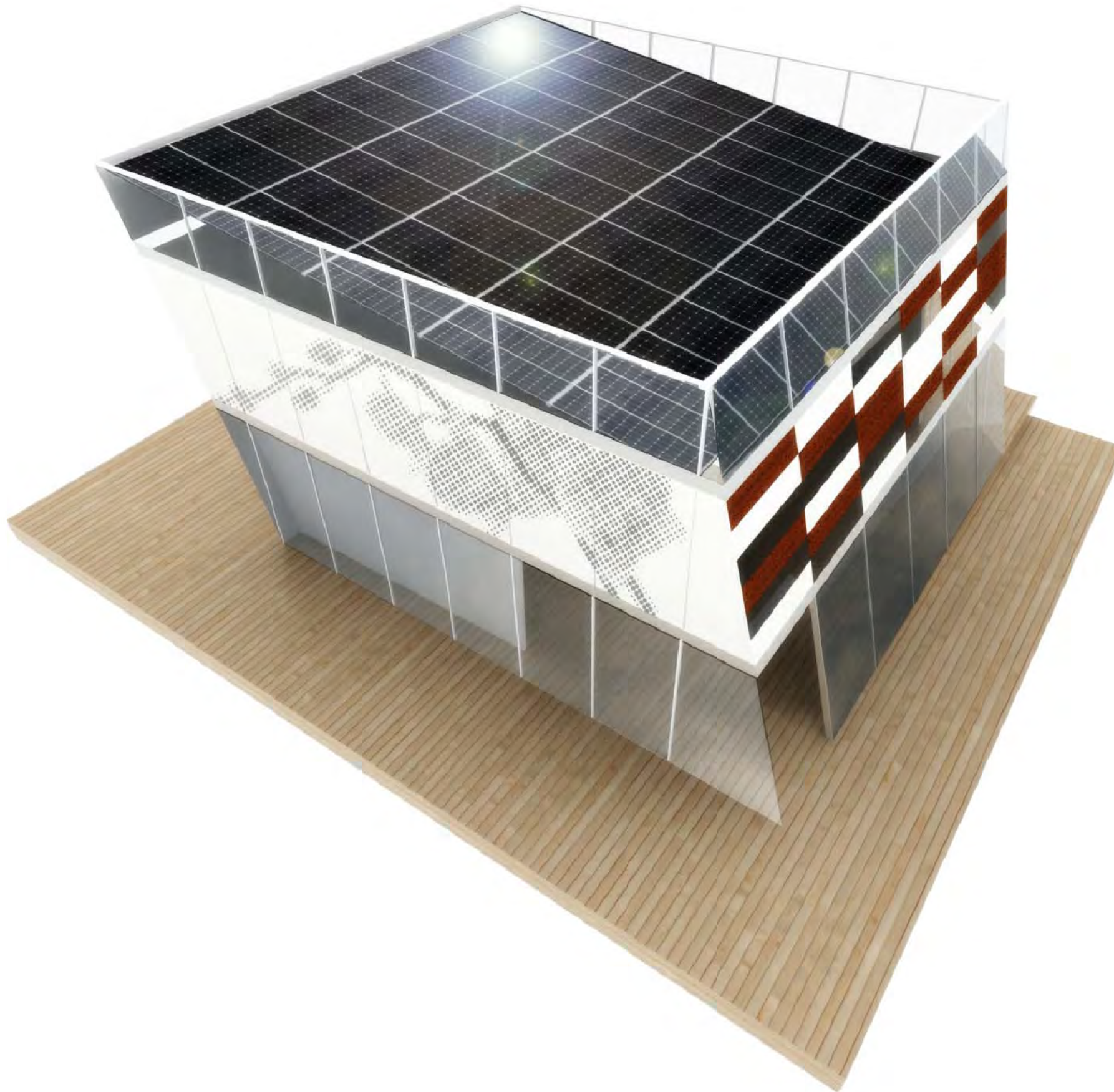
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DWG. Title

EXTERIOR RENDERINGS

DWG. No.

GE-401



Project: 
 Orchid House

Institution:  國立交通大學
 National Chiao Tung University

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DWG. Title
 EXTERIOR RENDERINGS

DWG. No.
GE-402

Project:



Institution:



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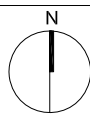
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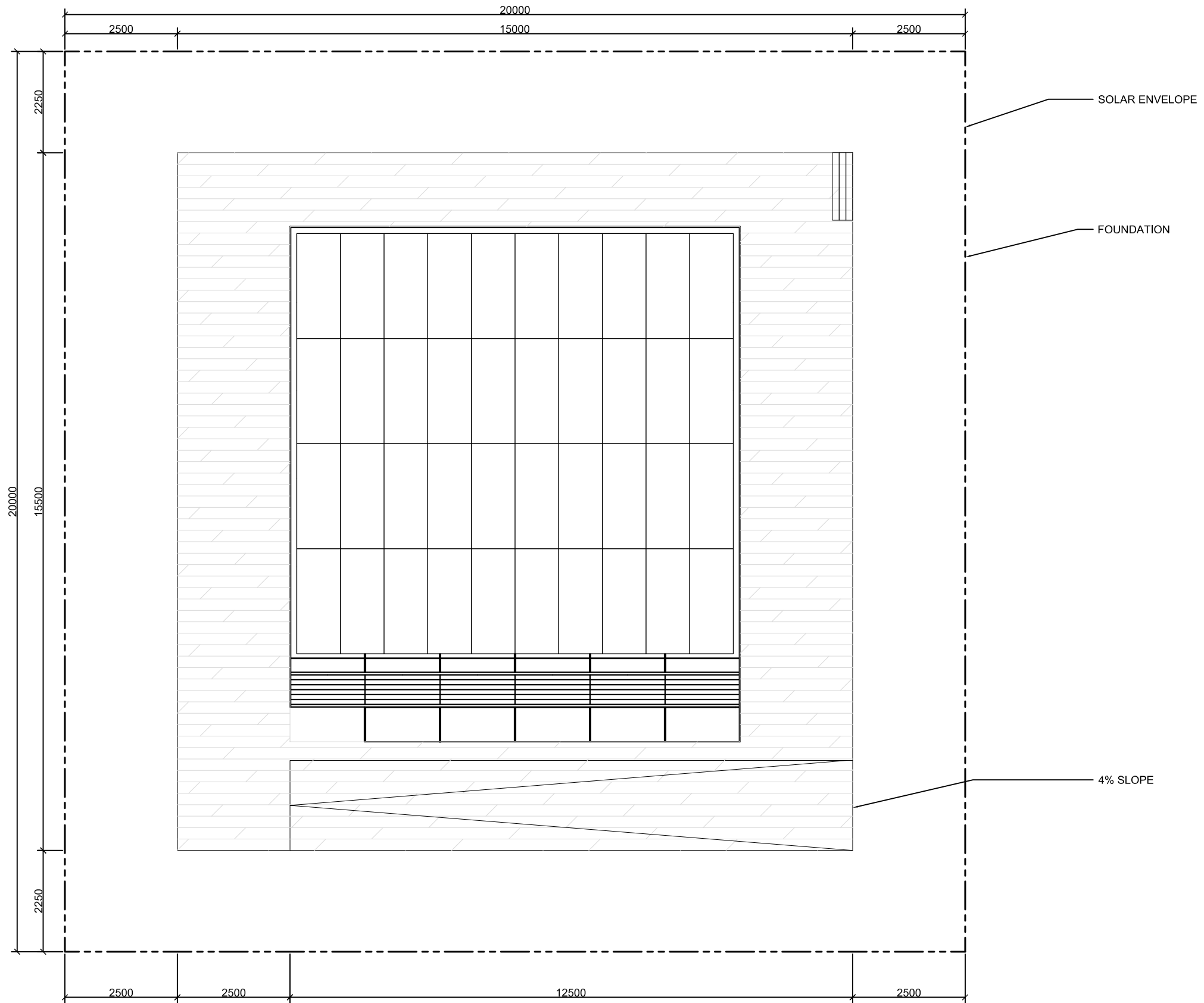
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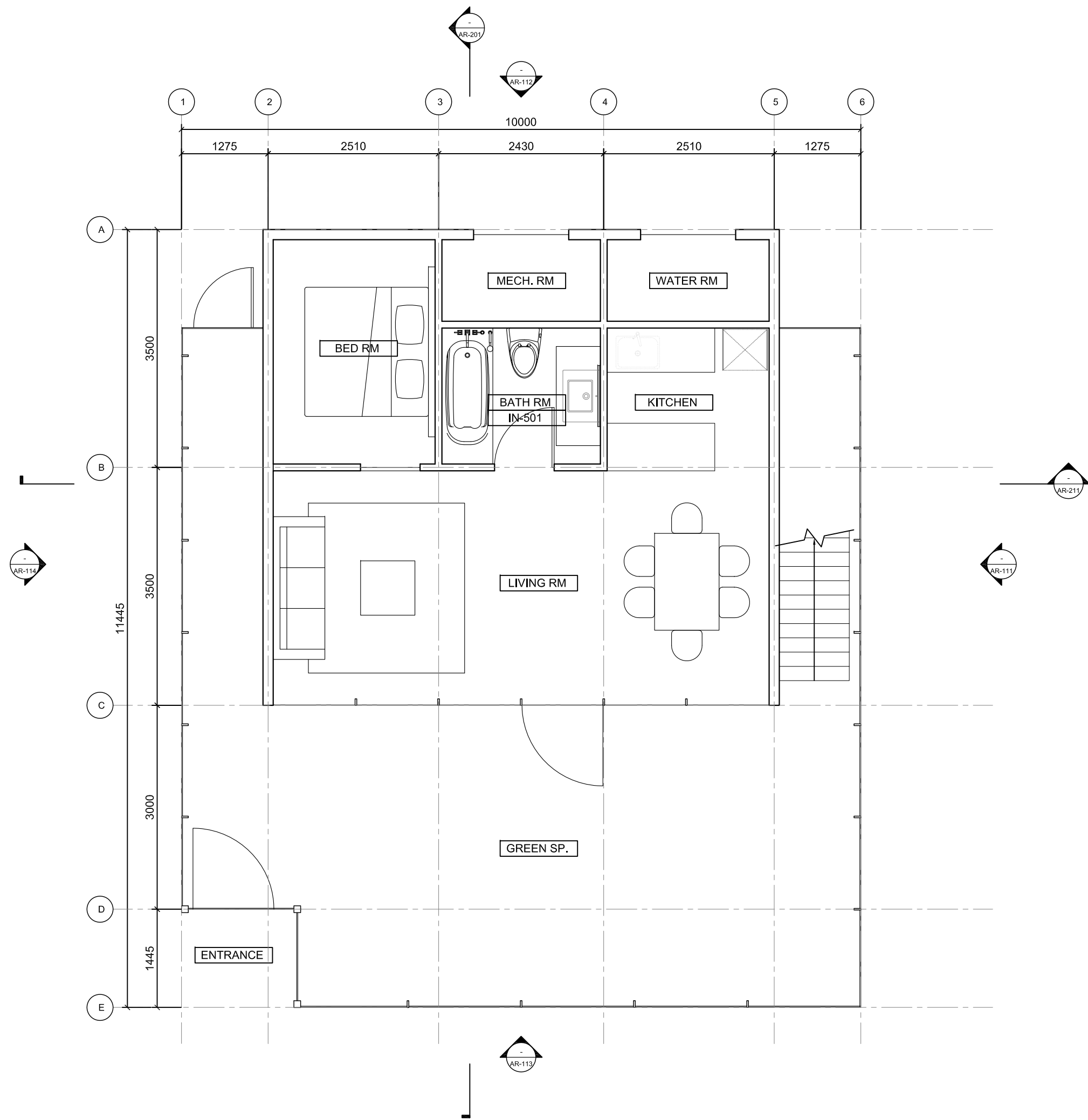
DWG. Title

SITE PLAN

DWG. No.

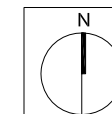
AR-011





Consultants:

Note:



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DWG. Title
1ST FLOOR PLAN

DWG. No.
AR-021

Project:



Institution:



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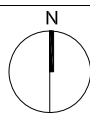
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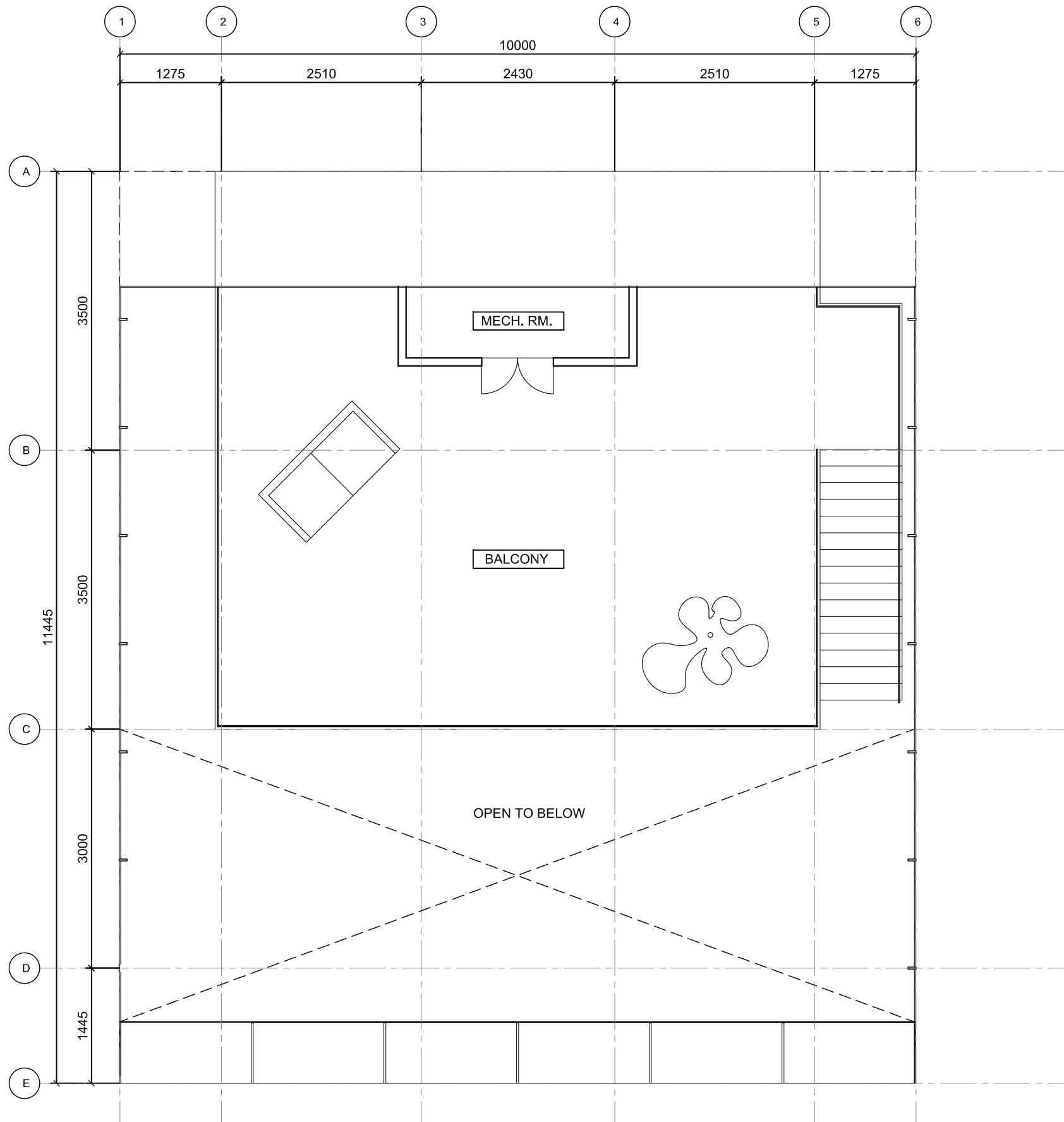
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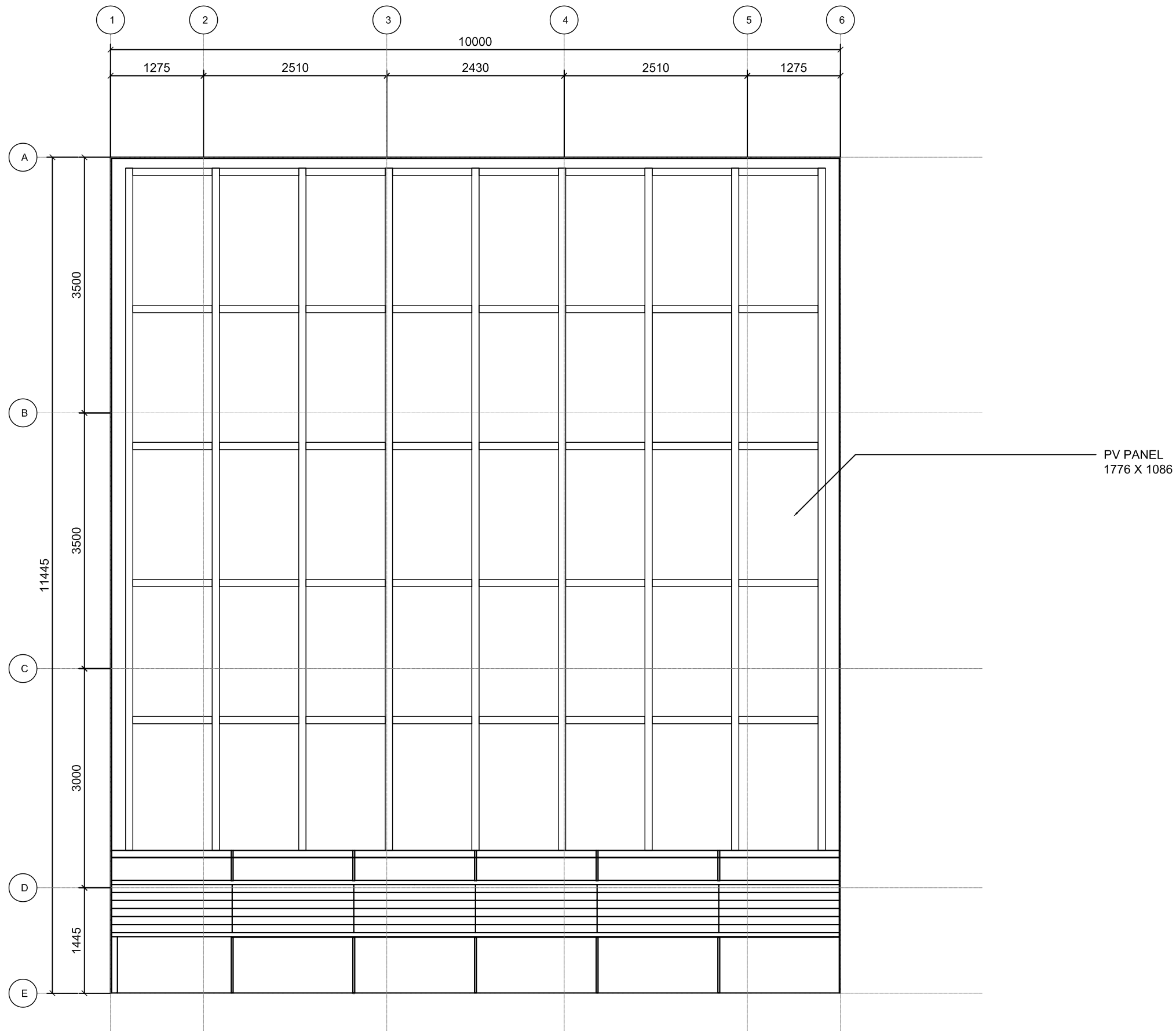
DWG. Title:

2ND FLOOR PLAN

DWG. No.:

AR-022



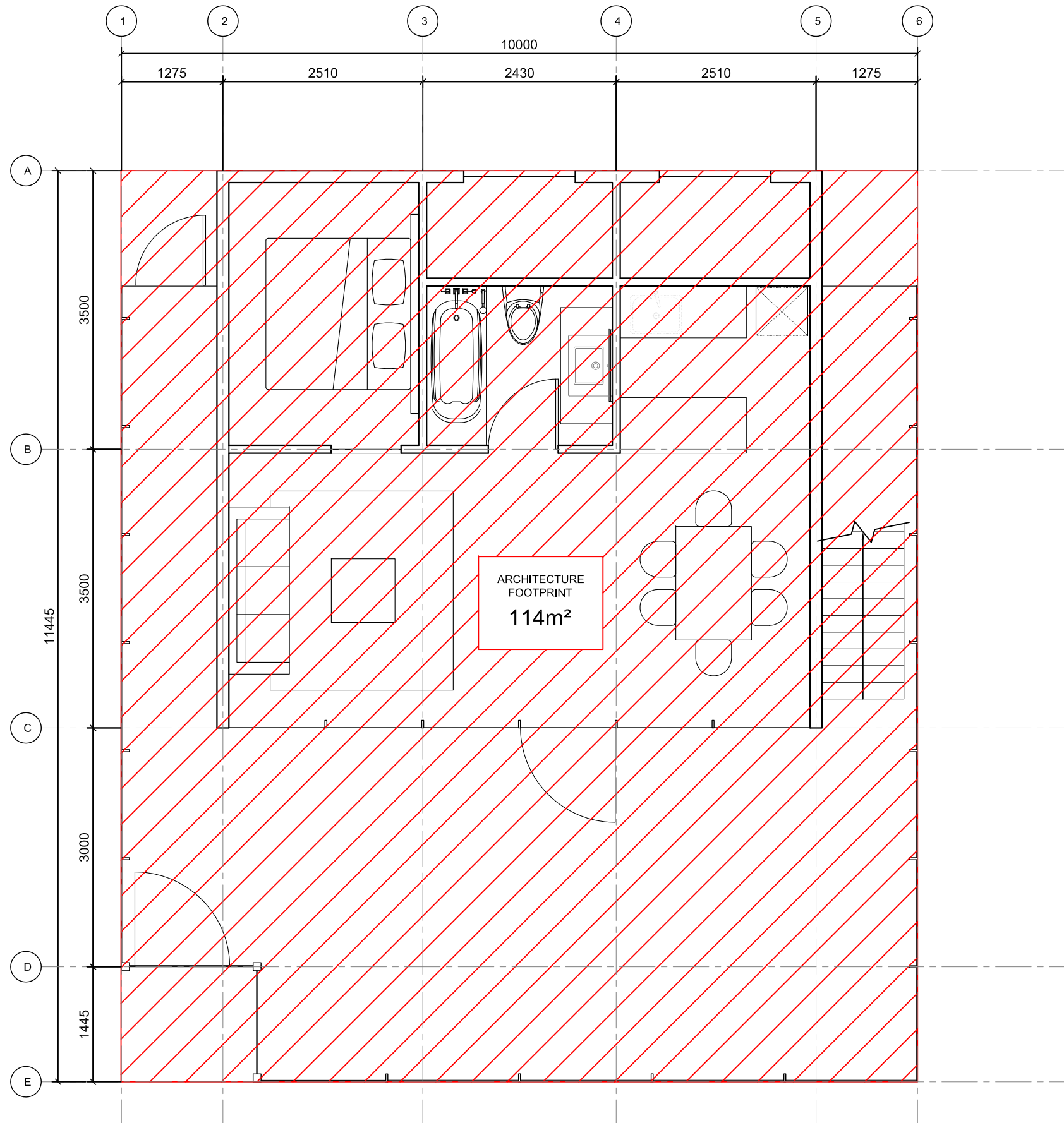


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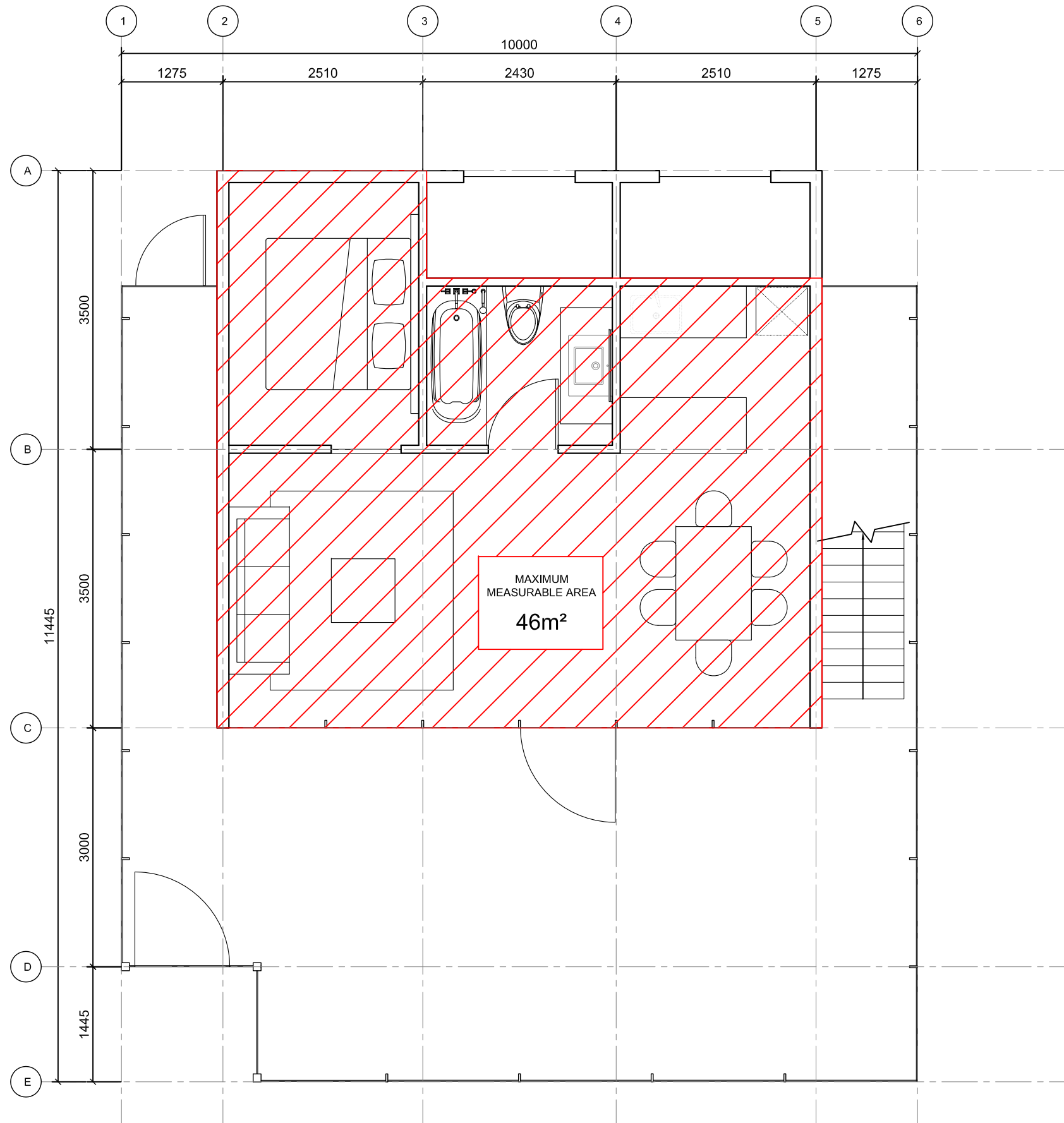
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DWG. Title
ROOF PLAN

DWG. No.
AR-031



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DWG. Title
MAXIMUM MEASURABLE AREA

DWG. No.
AR-052

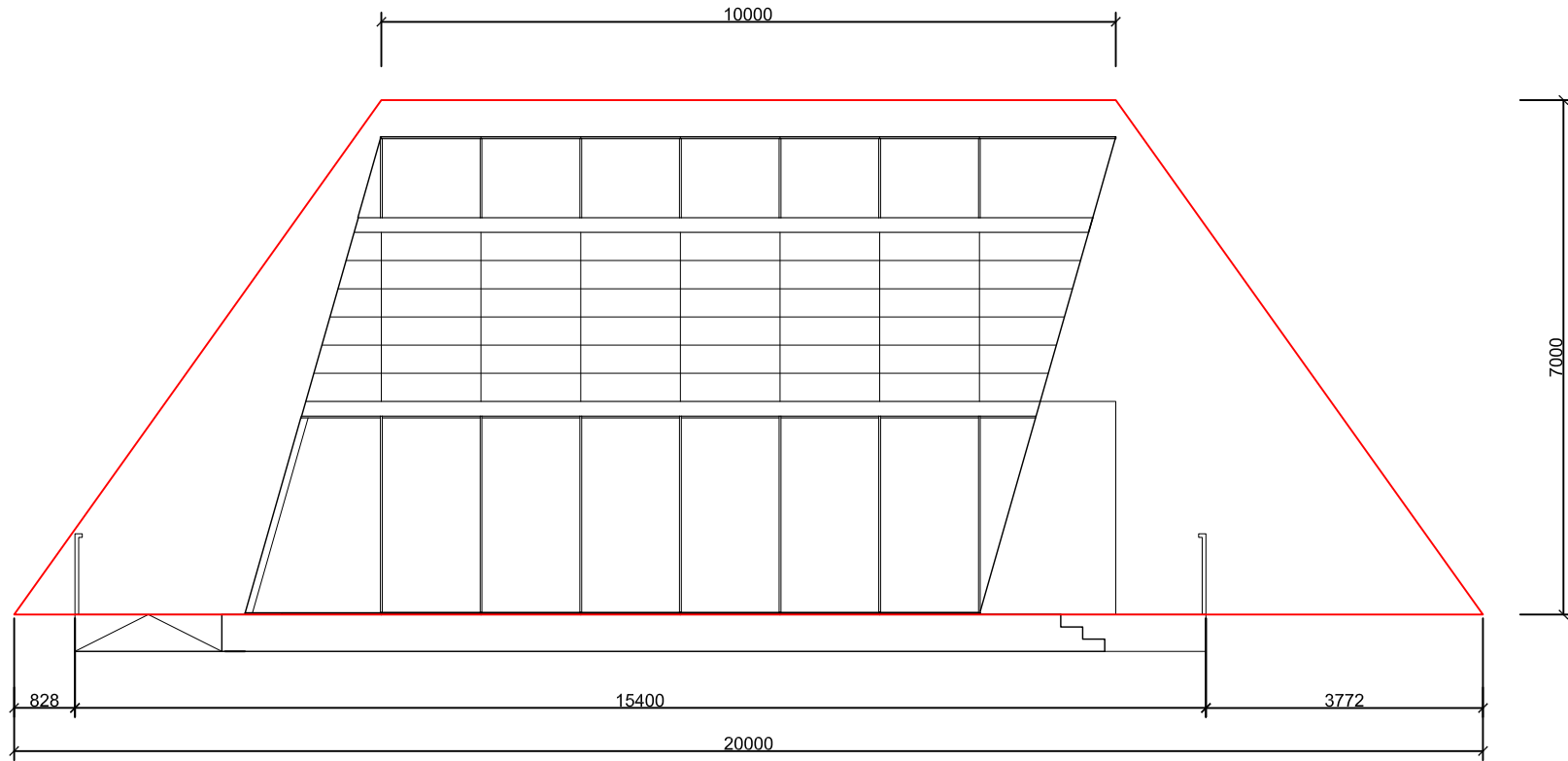


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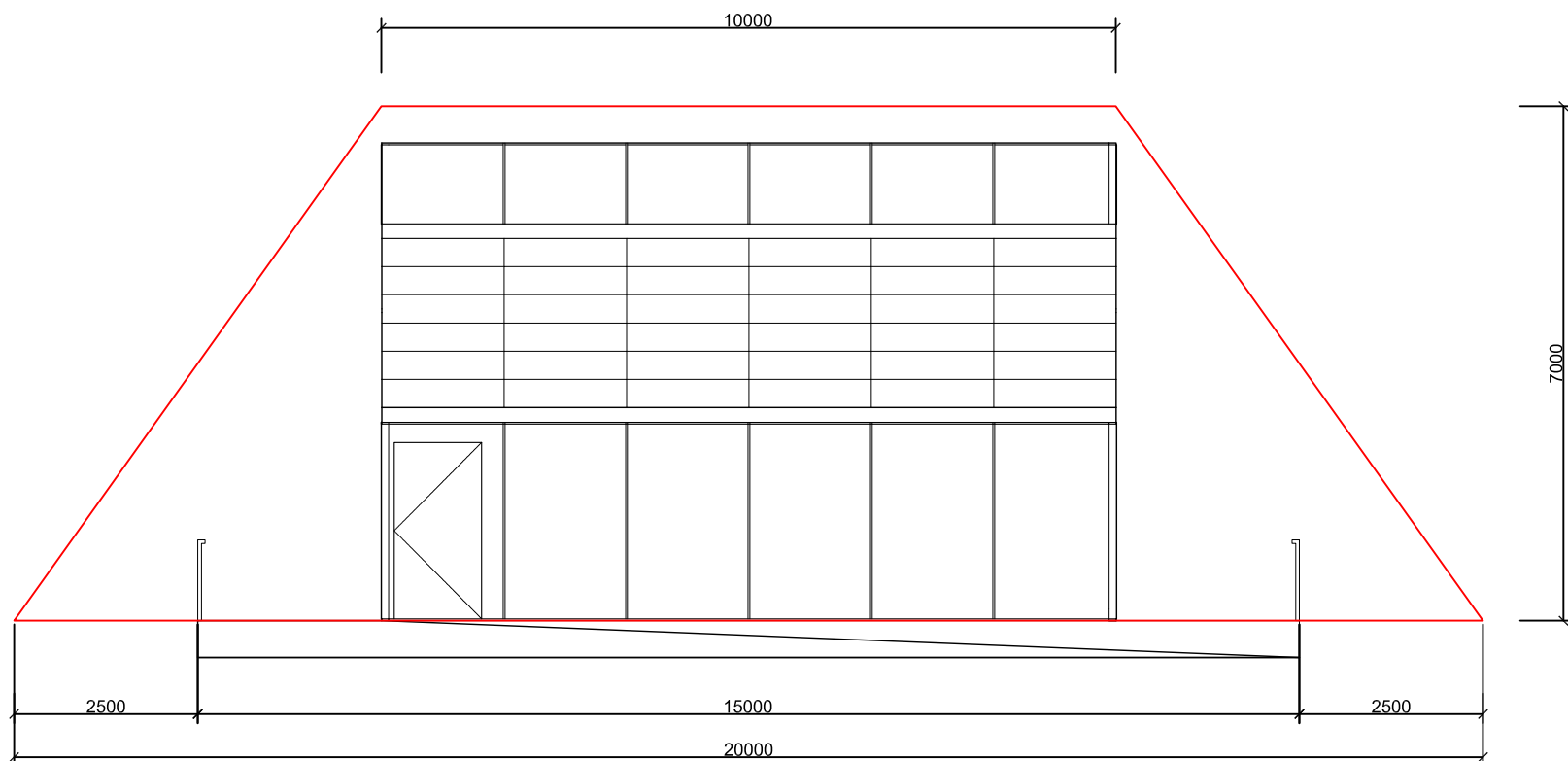
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DWG. Title
SITE ELEVATION

DWG. No.
AR-101



1



2

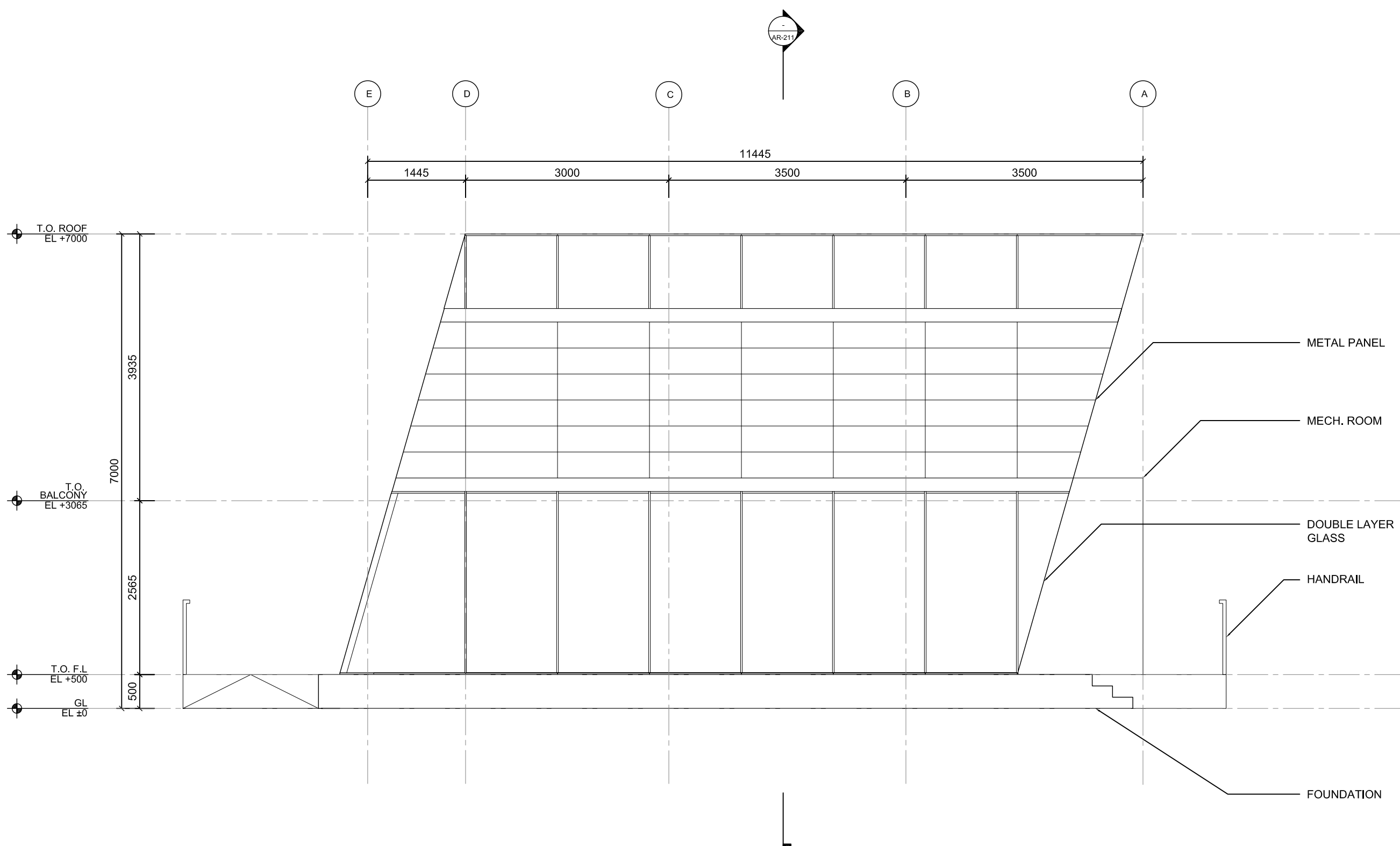


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DWG. Title
EAST ELEVATION

DWG. No.
AR-111



METAL PANEL

MECH. ROOM

DOUBLE LAYER GLASS

HANDRAIL

FOUNDATION

Project:



Institution:



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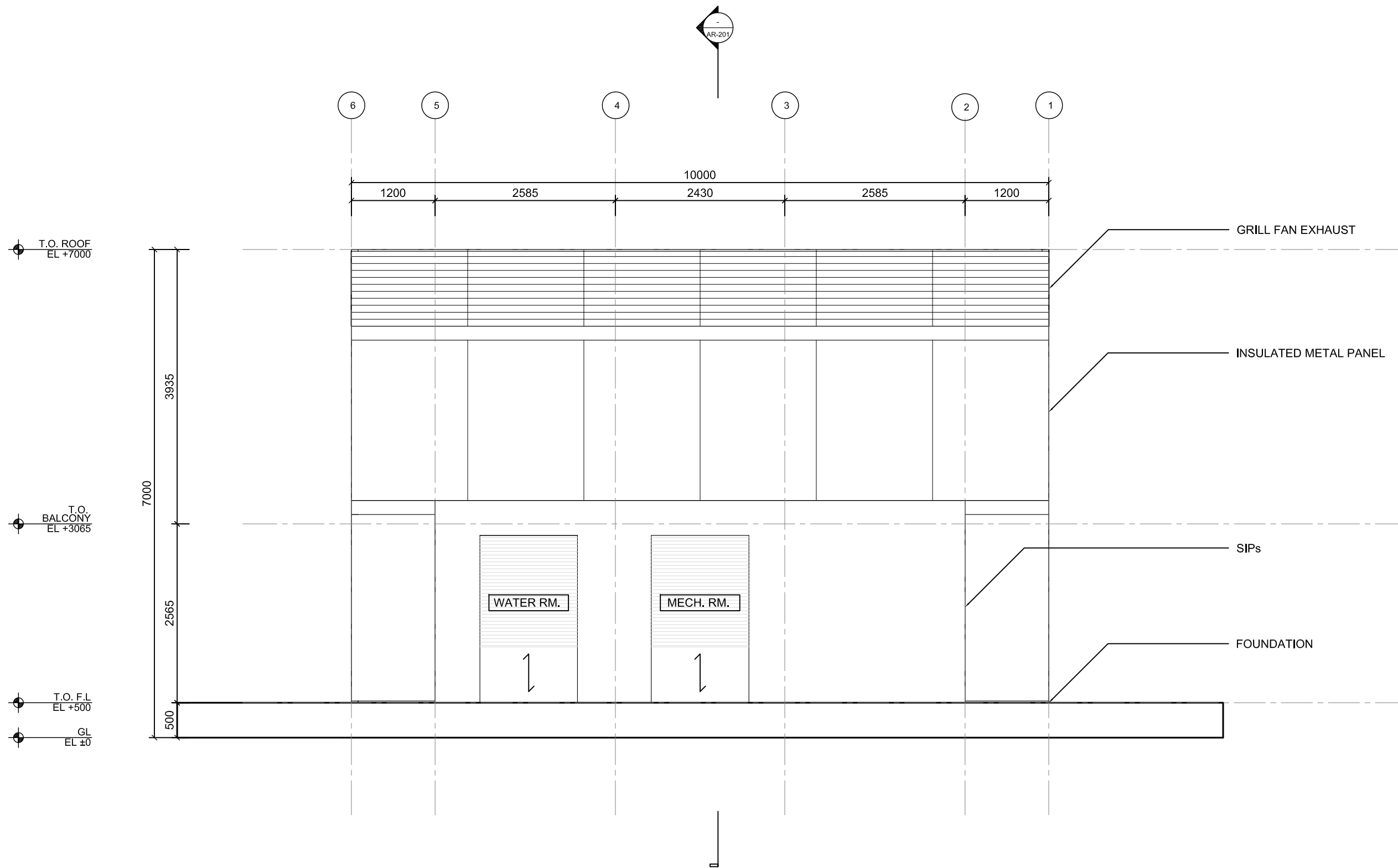
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DWG. Title

NORTH ELEVATION

DWG. No.

AR-112



Project:



Institution:



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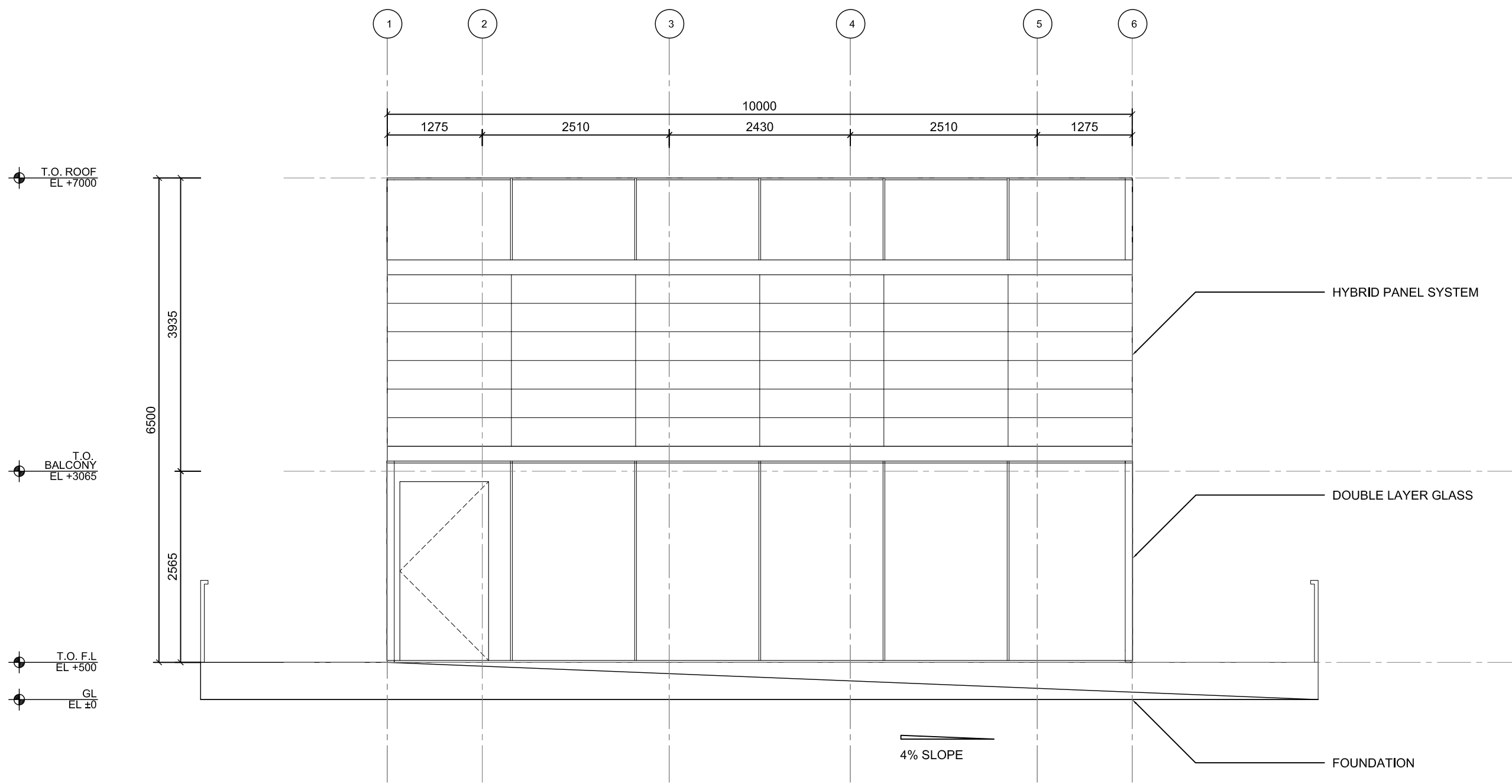
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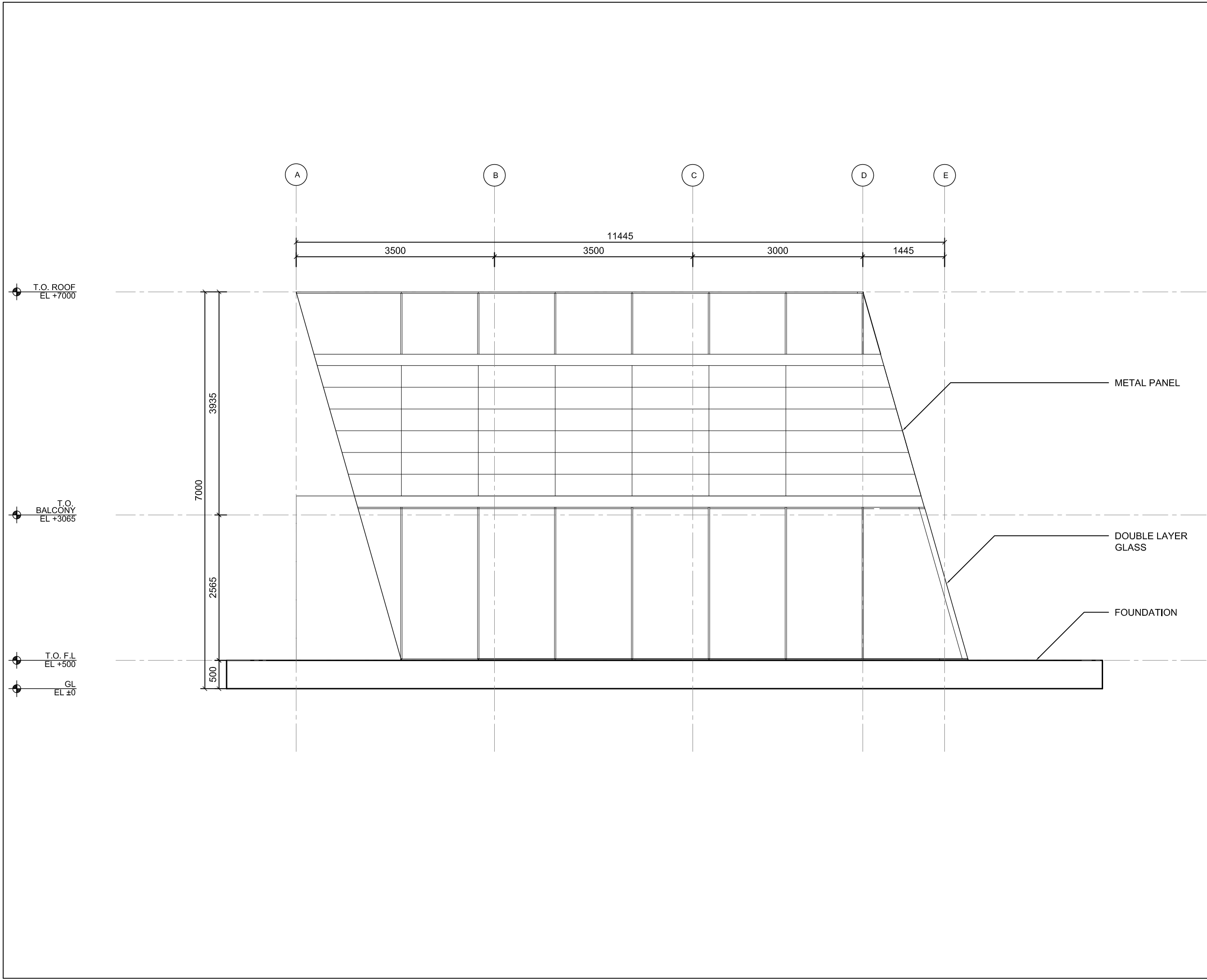
DWG. Title

SOUTH ELEVATION

DWG. No.

AR-113







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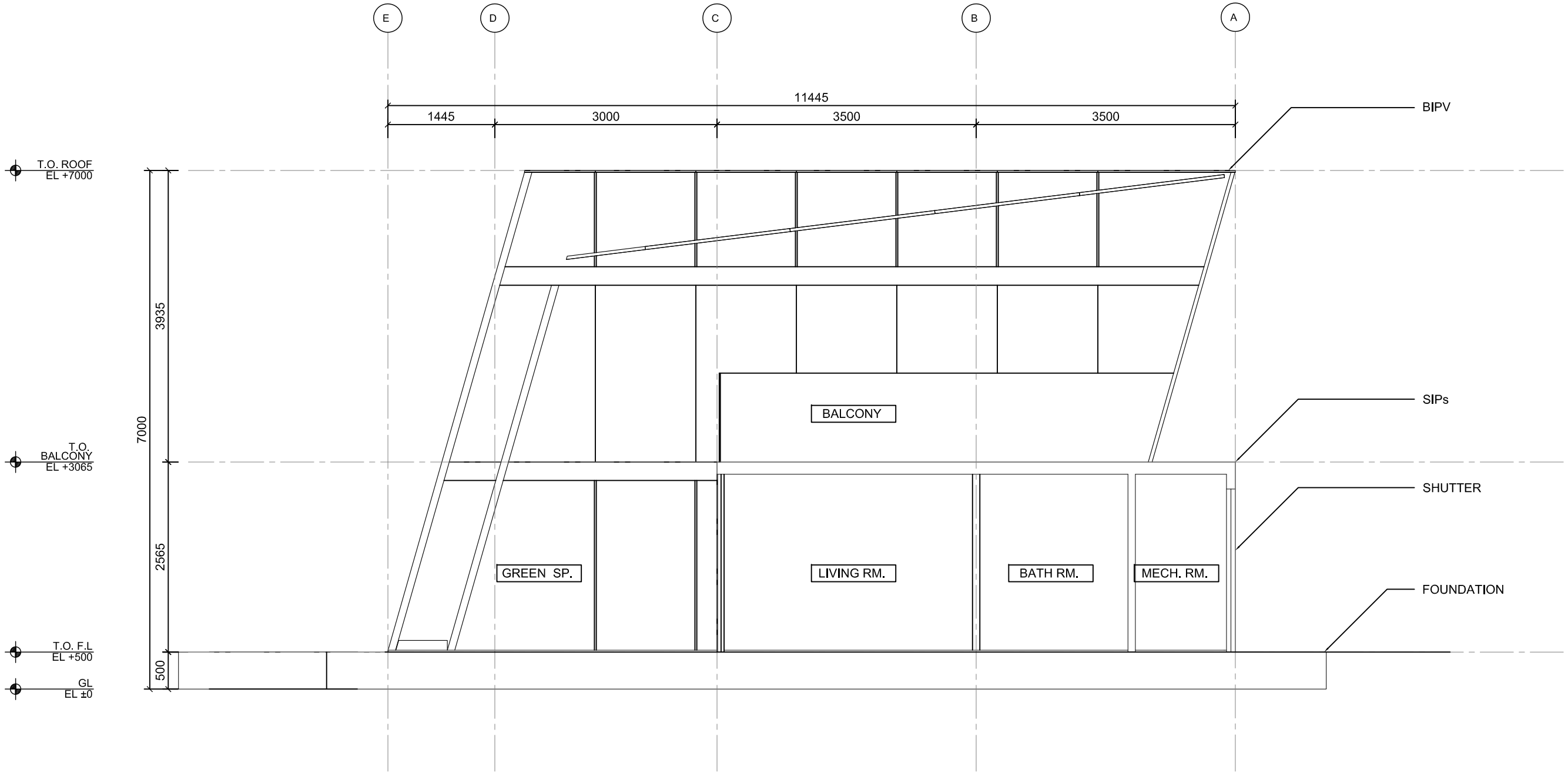
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DN	2013/04/01	SD Submission

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DWG. Title:
LONGITUDINAL SECTIONS

DWG. No.:
AR-201



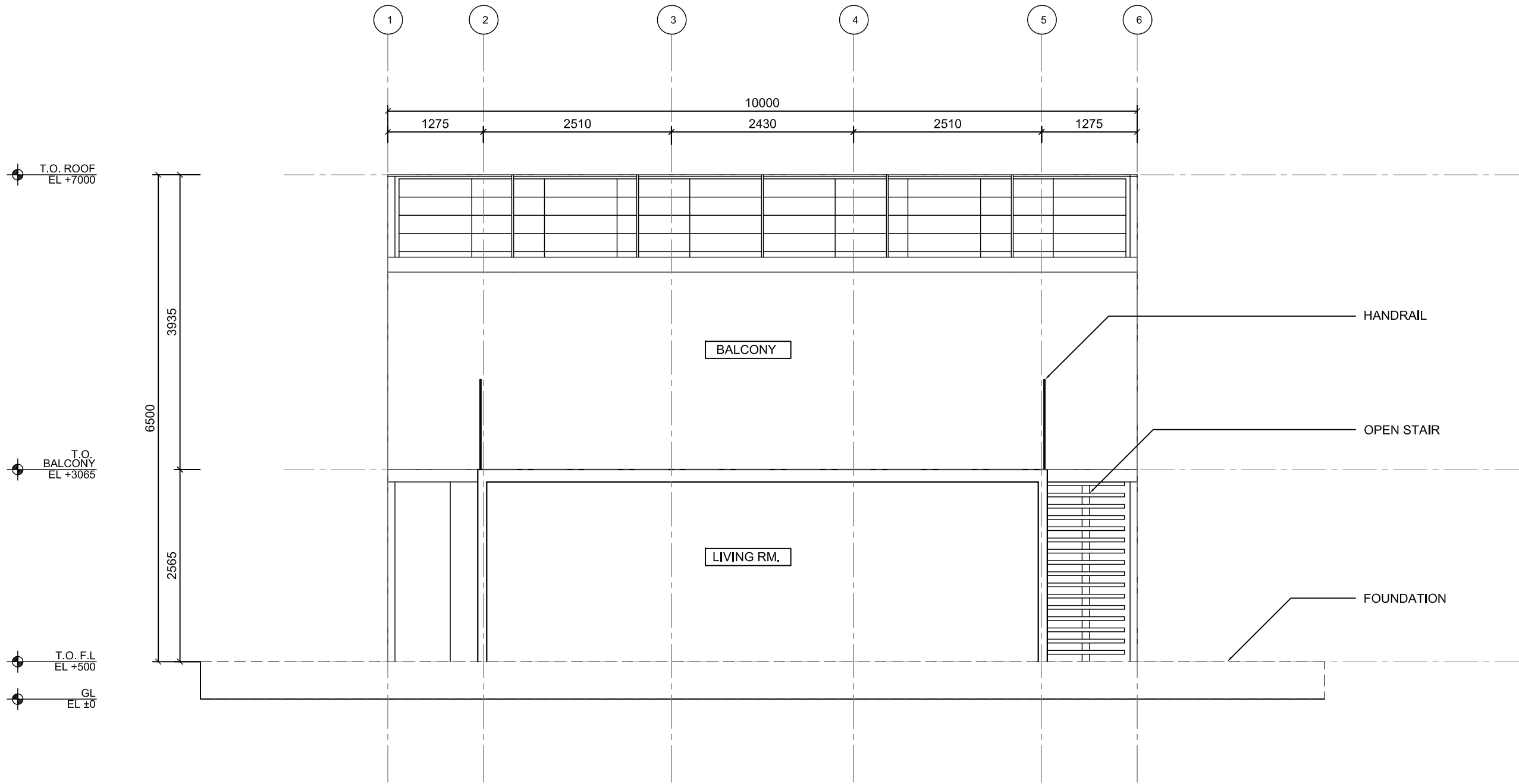


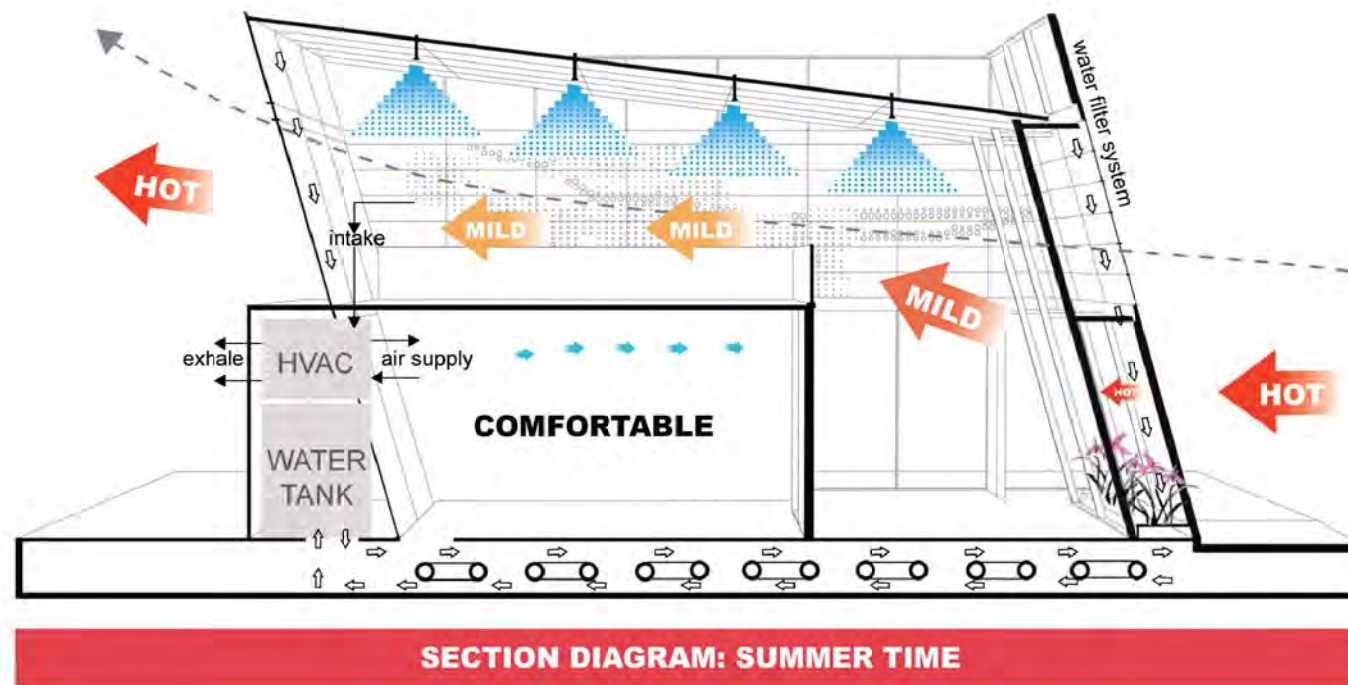
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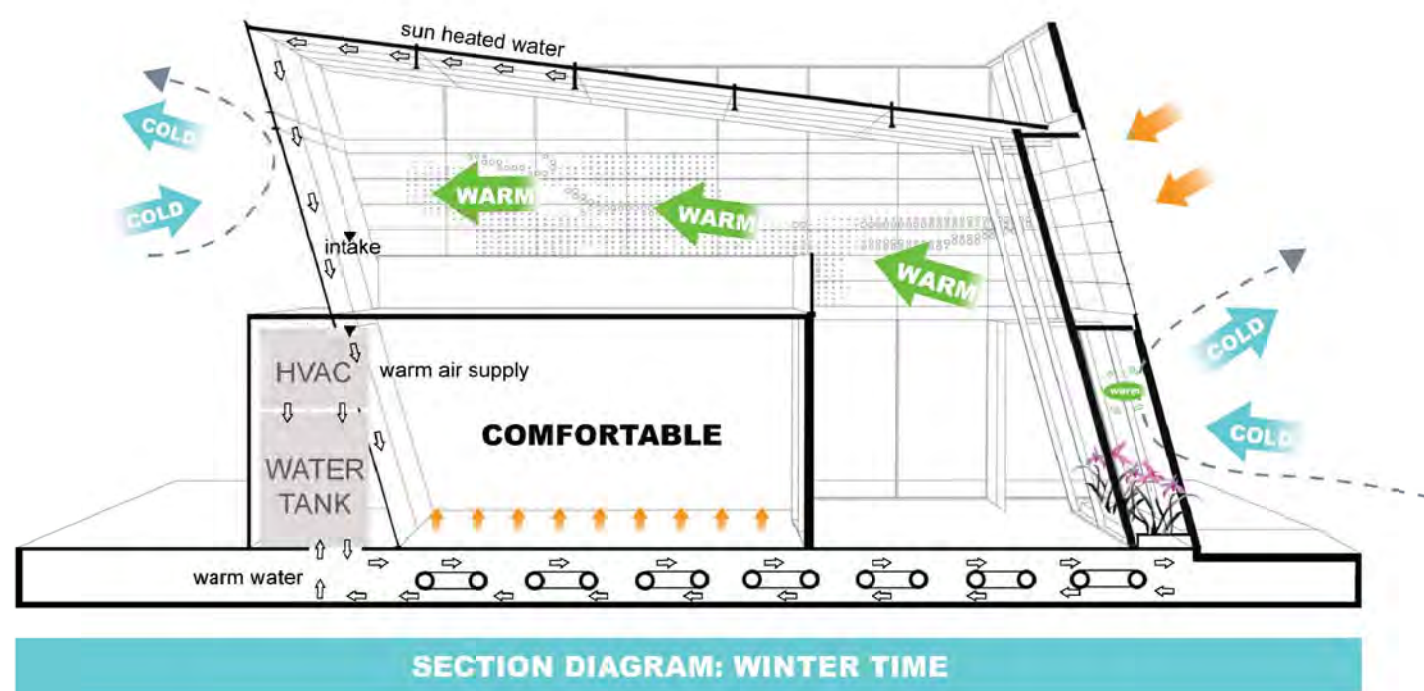
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TRANSVERSAL SECTIONS

DWG. No.
AR-211





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2

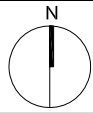
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DWG. Title:
BIOClimatic Drawings

DWG. No.:
BA-001

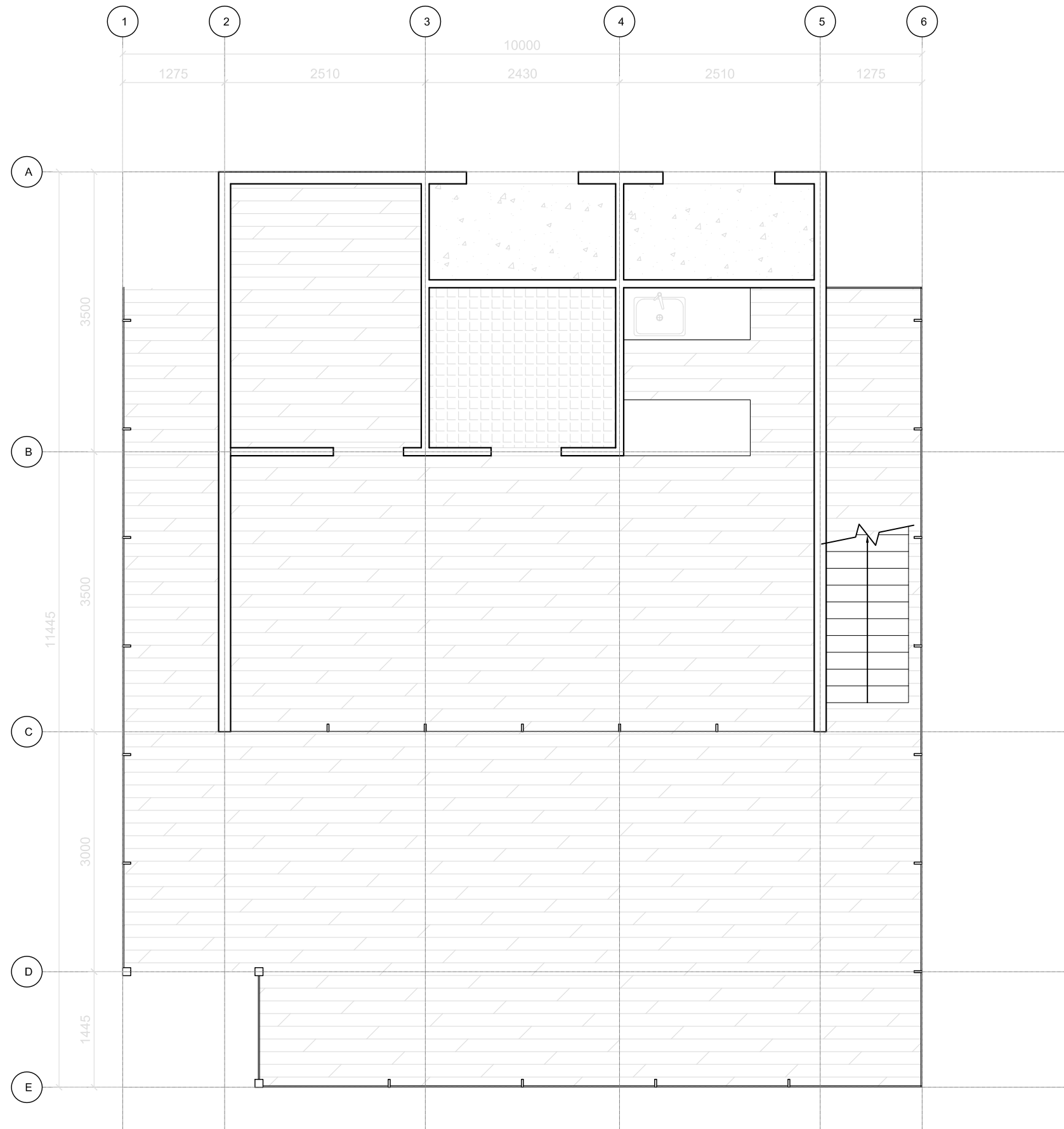



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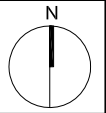
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DWG. Title
1ST LEVEL FLOOR

DWG. No.
IN-001



-  WOOD FLOOR
-  TILE FLOOR
-  CONC. FLOOR

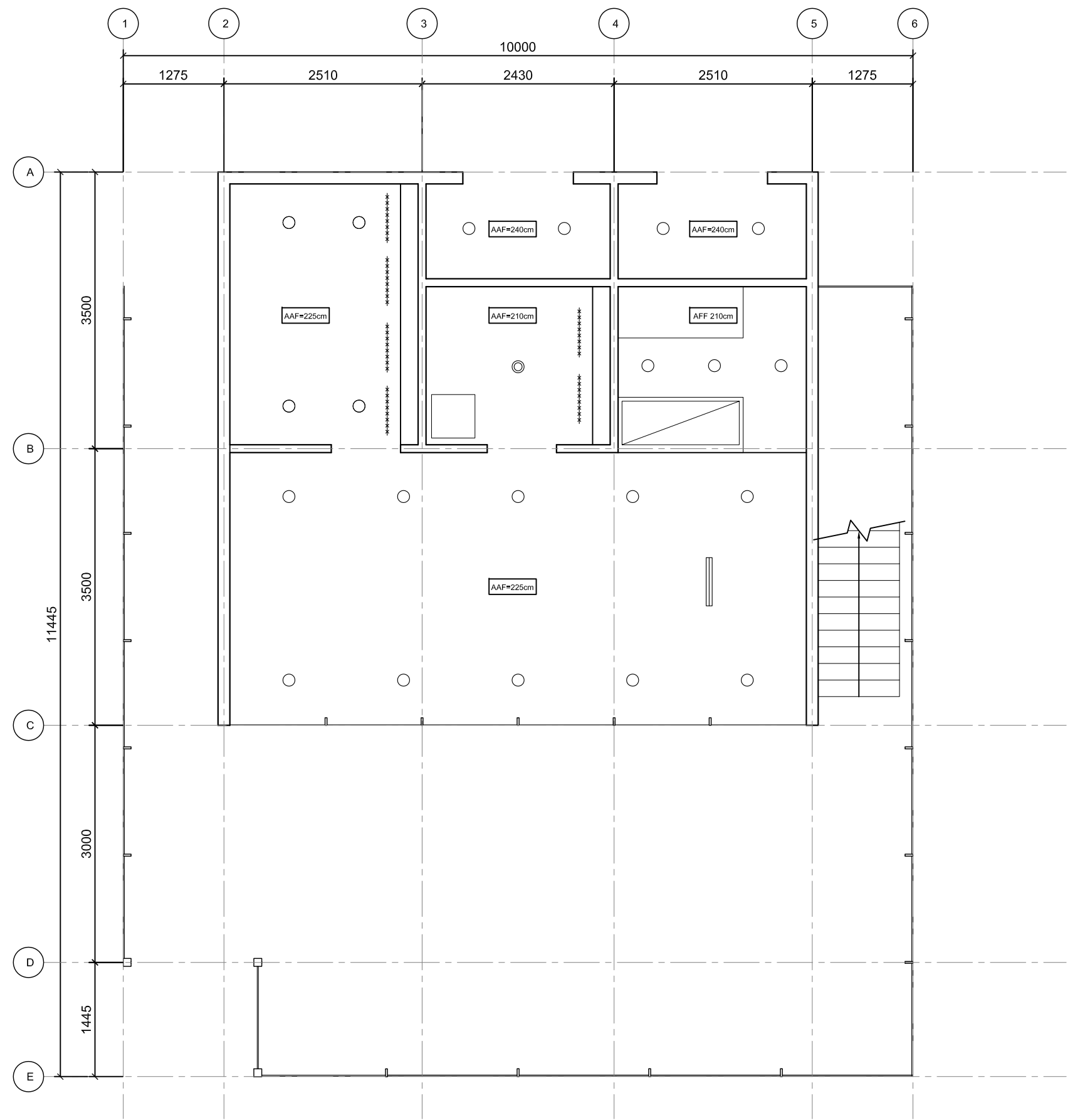


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DWG. Title
REFLECTED CEILING

DWG. No.
IN-101



- RECESSED
- ⊙ RECESSED
- ***** STRIP LED
- ▬▬▬ LIGHTING FI

Project:



Institution:



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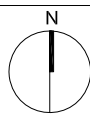
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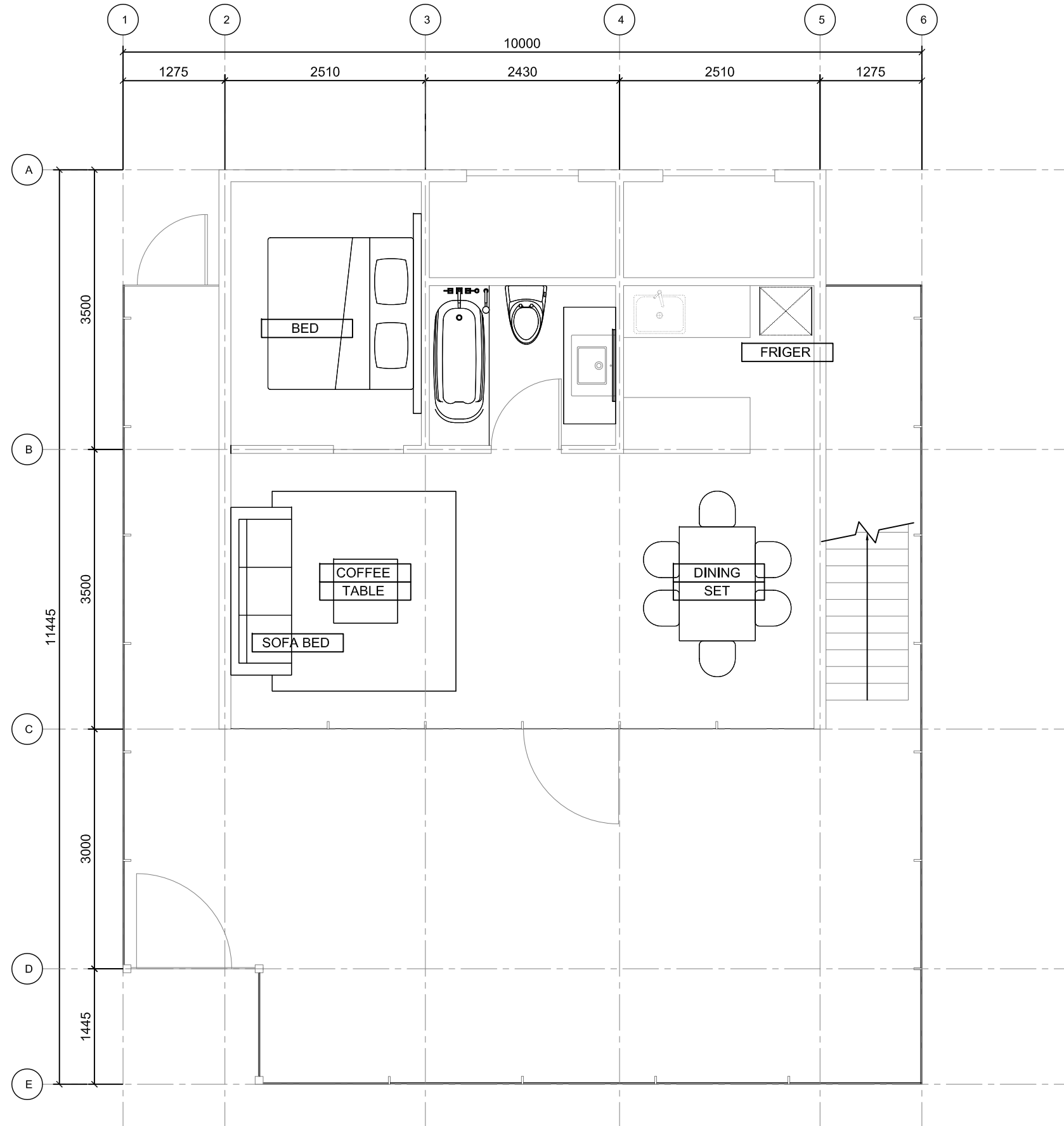
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DWG. Title

FURNISHINGS

DWG. No.

IN-301





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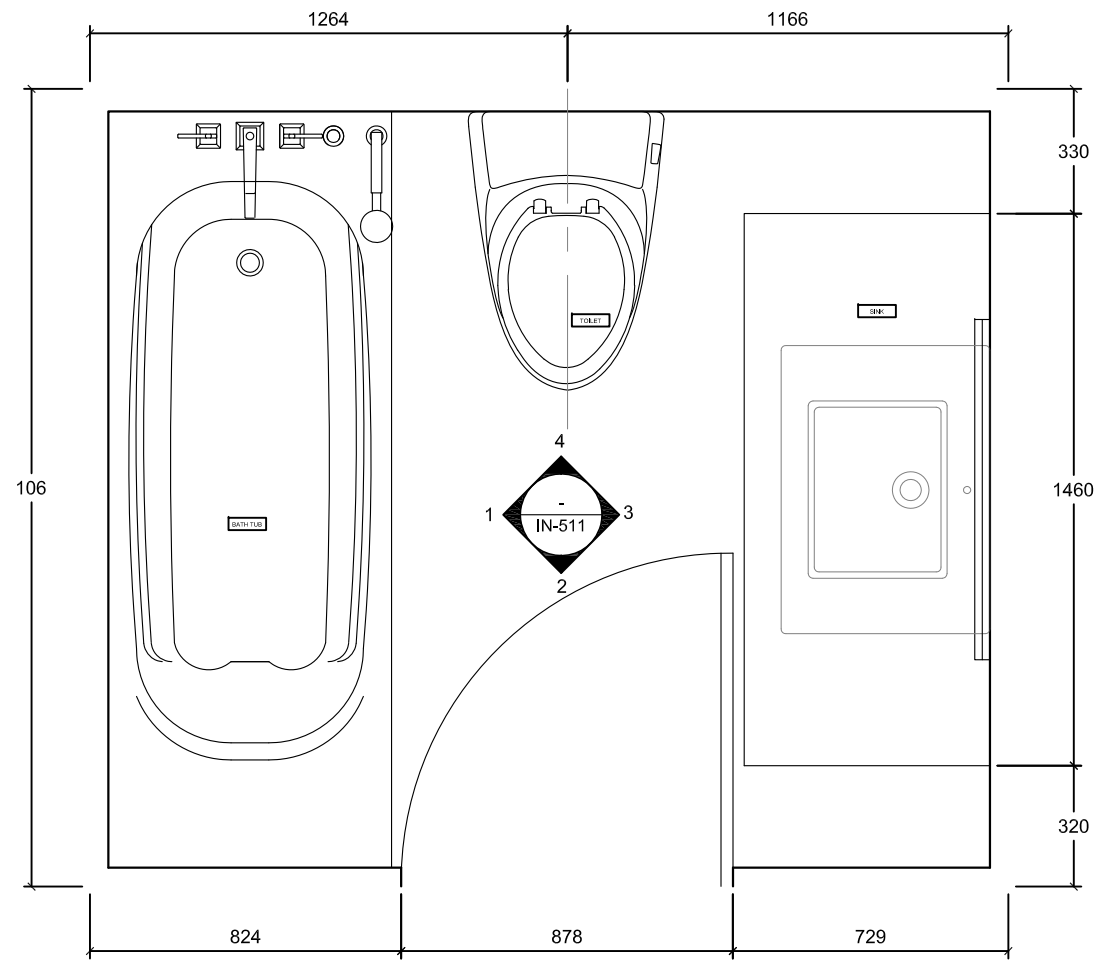
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Scale 1:10

DWG. Title
BATHROOM PLAN

DWG. No.
IN-501





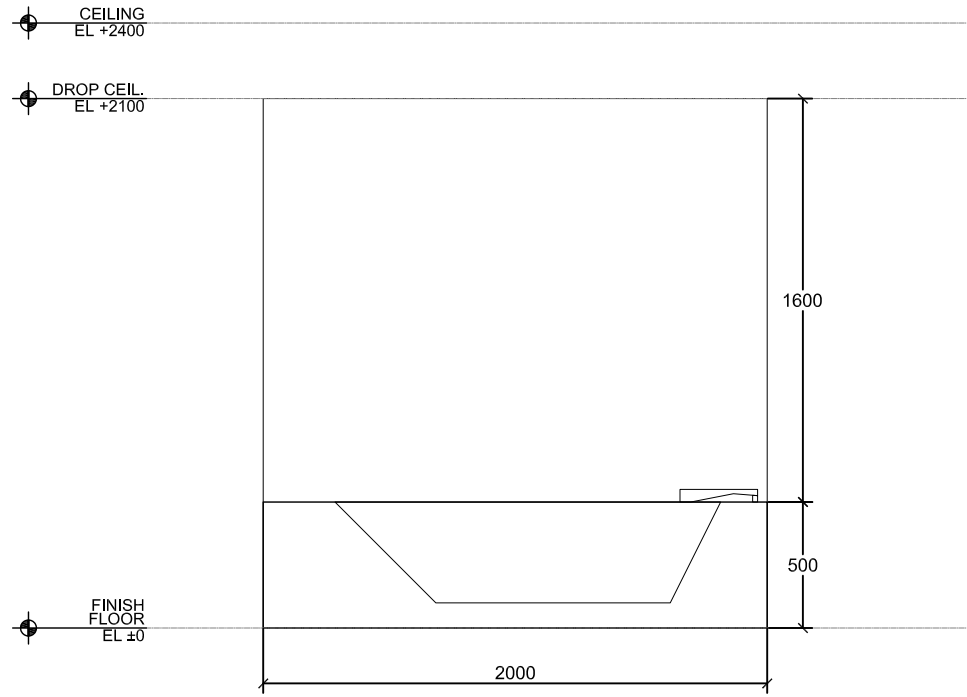
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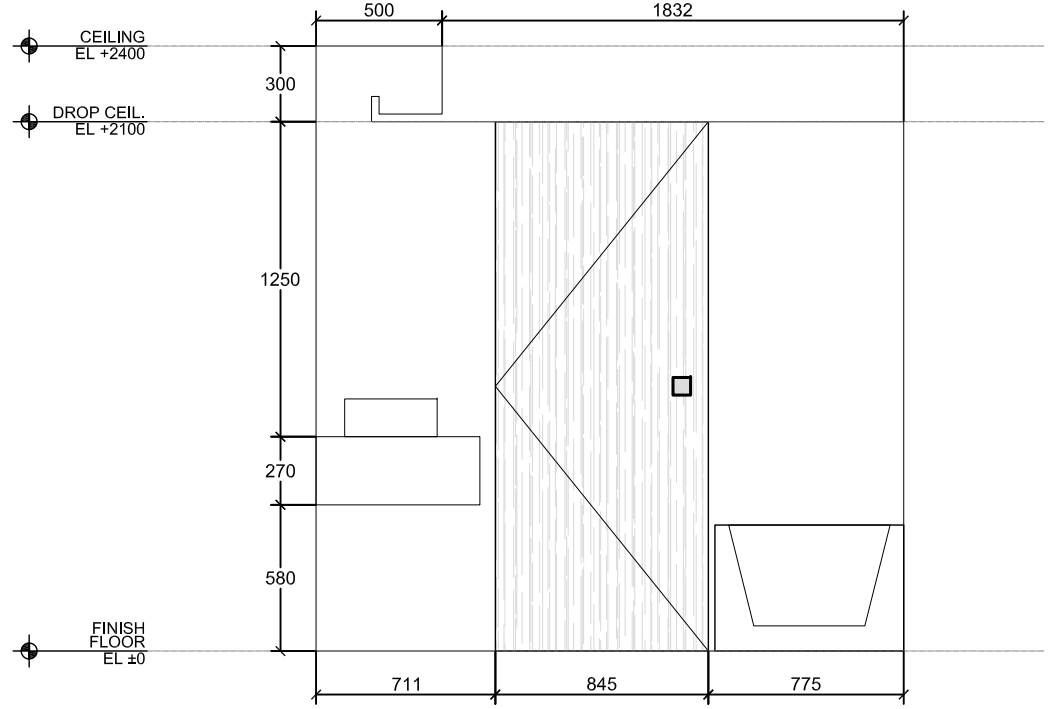
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DWG. Title
BATHROOM ELEVATIONS

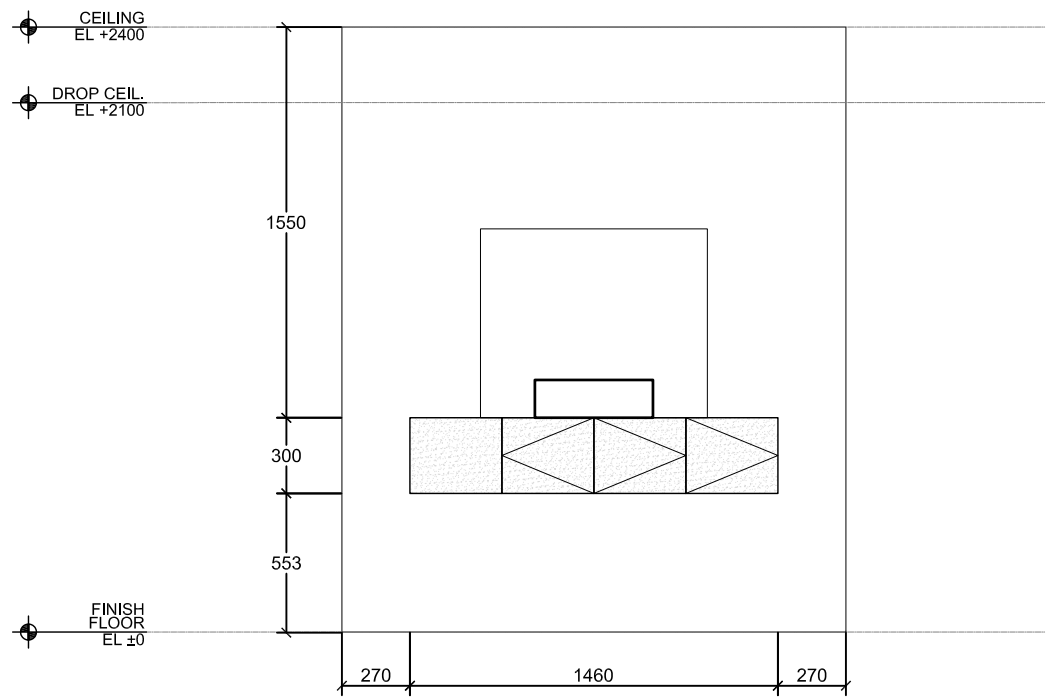
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IN-511



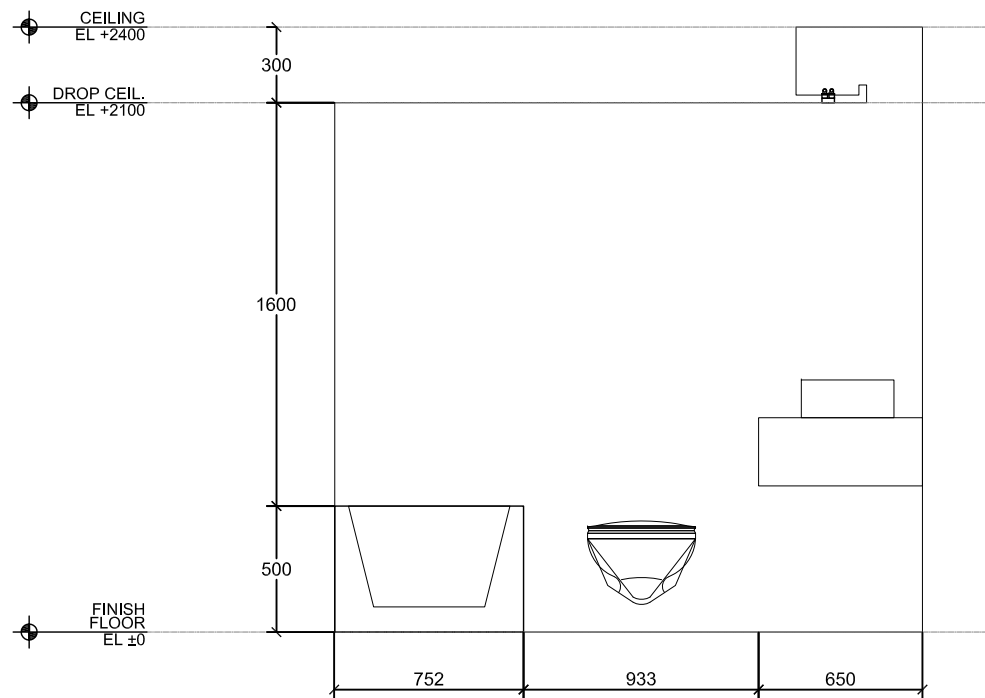
1



2



3



4



Project:

 Orchid House

Institution:
 國立交通大學
 National Chiao Tung University

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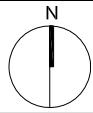
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DWG. Title
 INTERIOR RENDERINGS

DWG. No.
IN-601

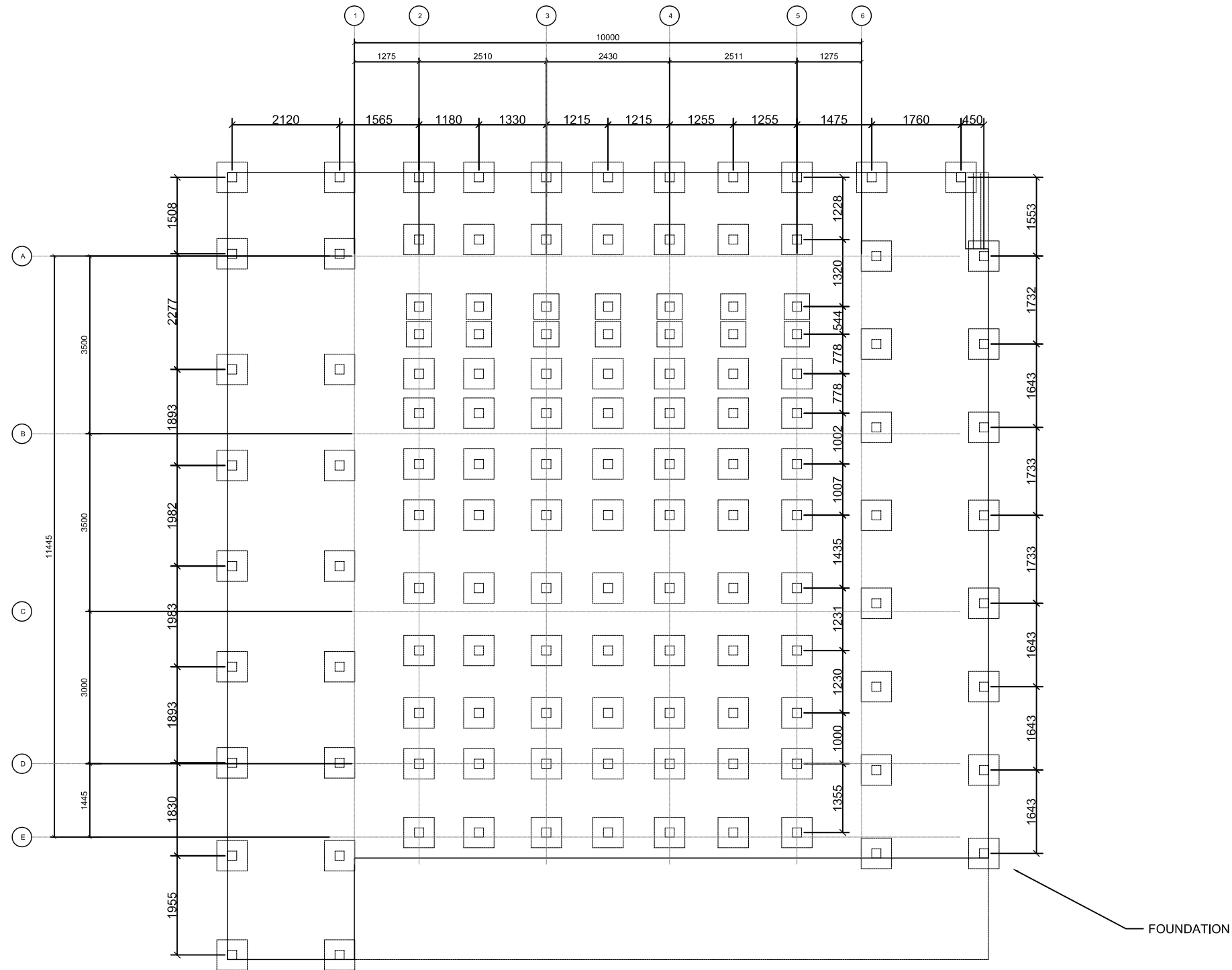


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DWG. Title
FOUNDATION PLAN AND DETAILS

DWG. No.
ST-001



FOUNDATION A
500 X 500

FOUNDATION B
600 X 600



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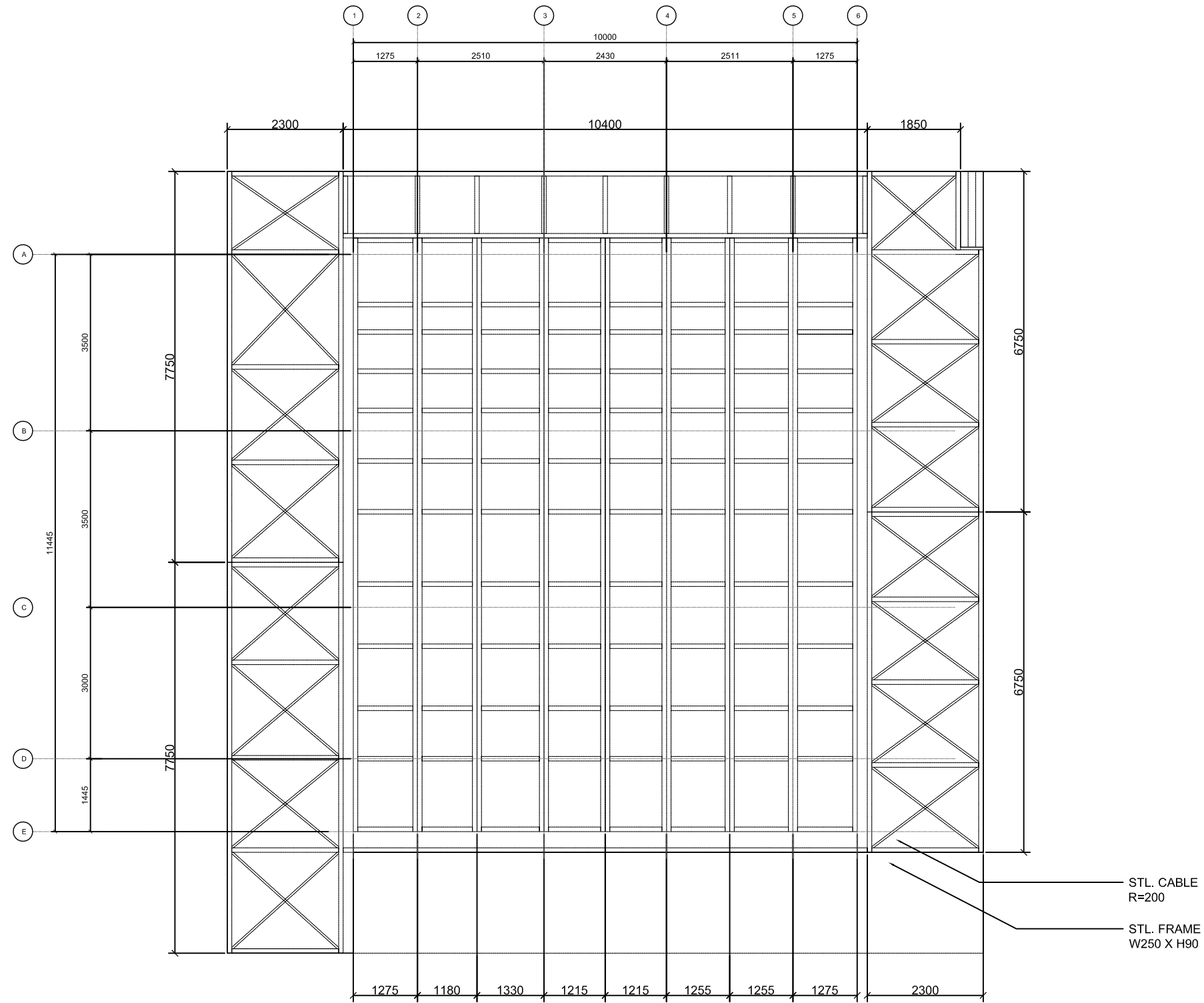
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DWG. Title
STRUCTURAL FLOOR FRAMING PLAN

DWG. No.
ST-002



Project:



Institution:



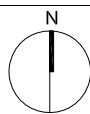
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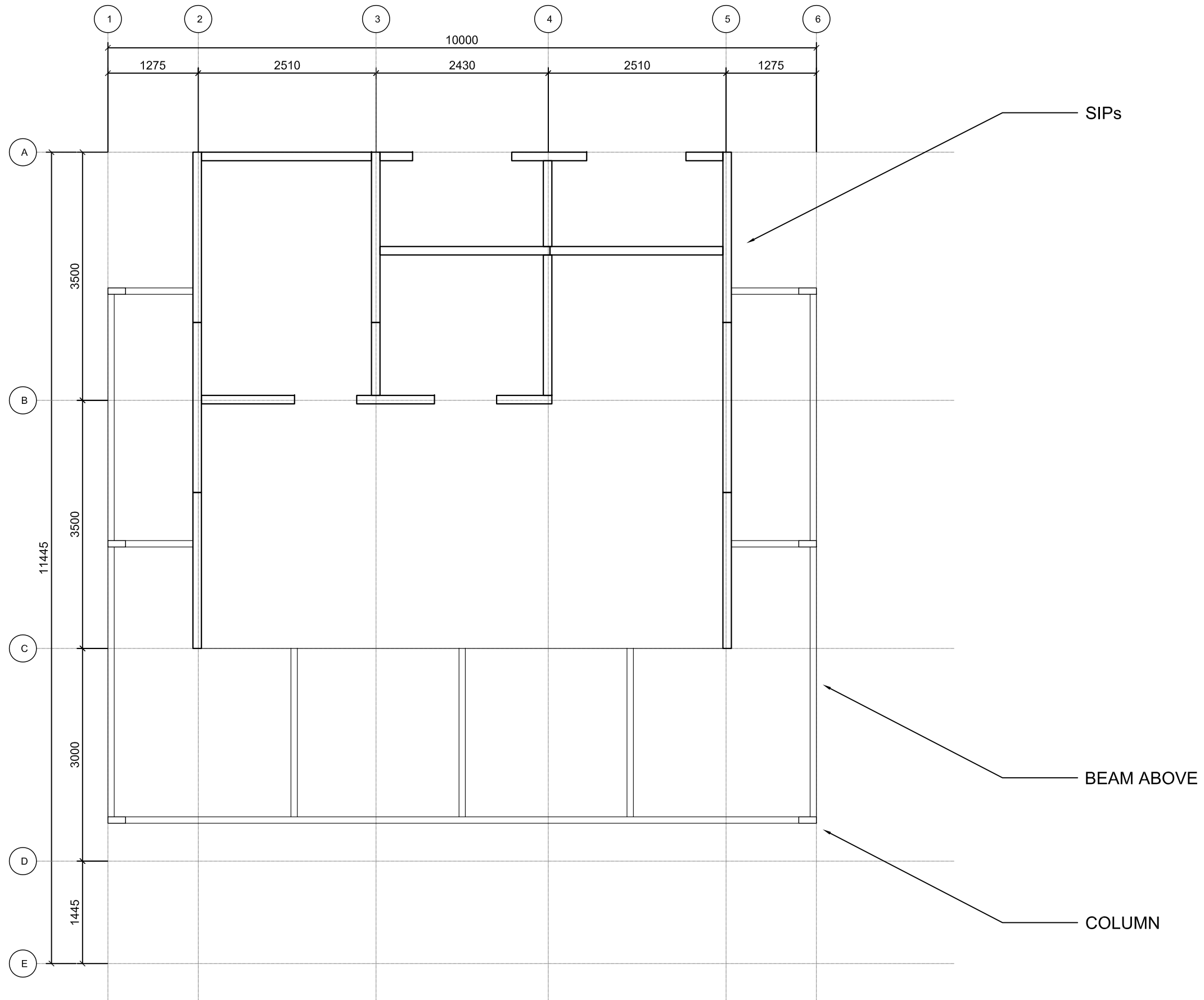


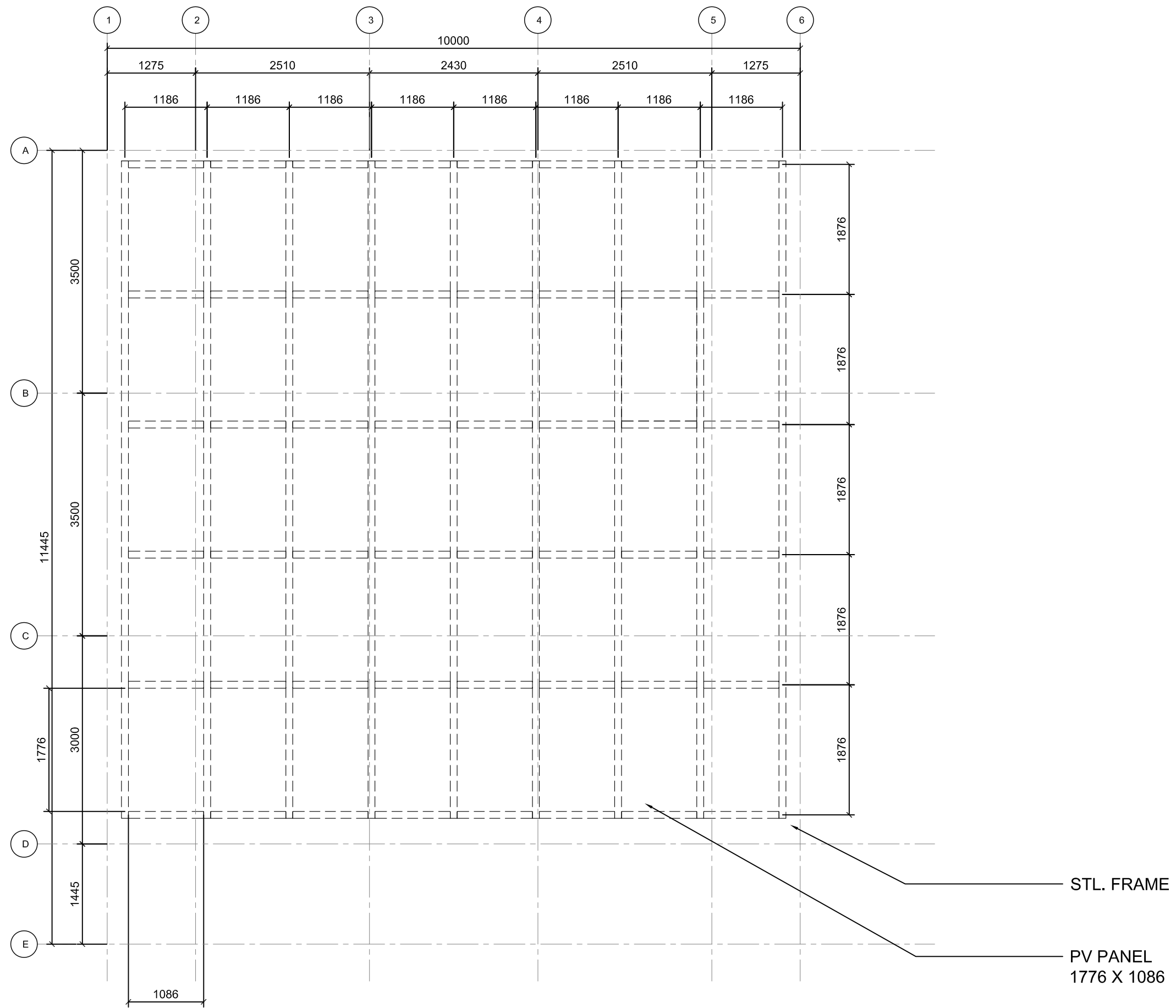
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DN	2013/04/01	SD Submission

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Checked by: DN
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DWG. Title
STRUCTURAL FLOOR PLAN

DWG. No.
ST-011





Mark	Date	Description
DN	2013/04/01	SD Submission

Drawn by	HY
Checked by	DN
Scale	1:60

Project:



Institution:



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國立交通大學建築研究所

Team Name: NCTU/UNICODE

Address: 1001 Ta-Hsueh Road
Hsinchu City 30010
Taiwan

Contact: www.sde.tw



Consultants:

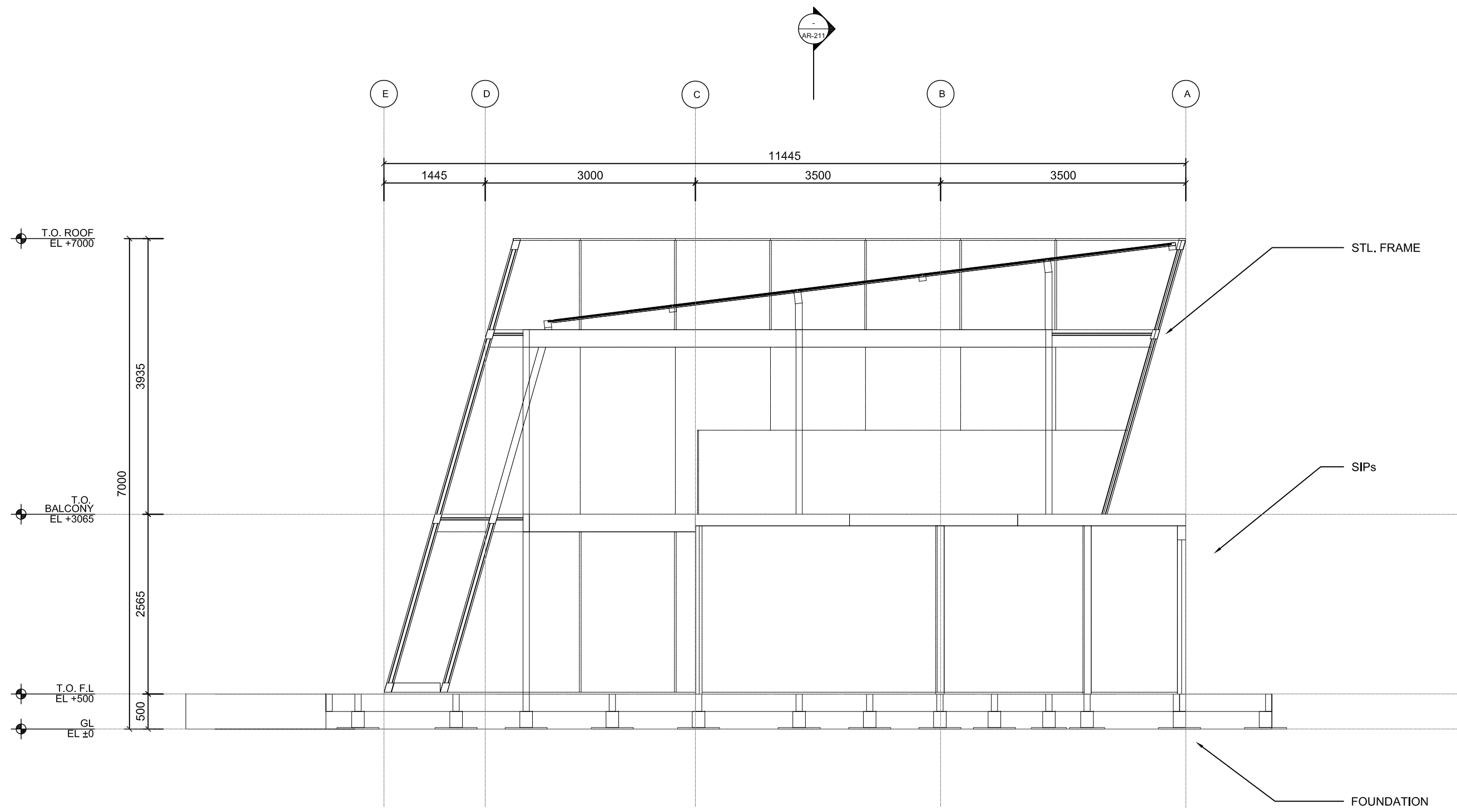
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DWG. Title
STRUCTURAL LONGITUDINAL SECTIONS

DWG. No.
ST-101





Consultants:

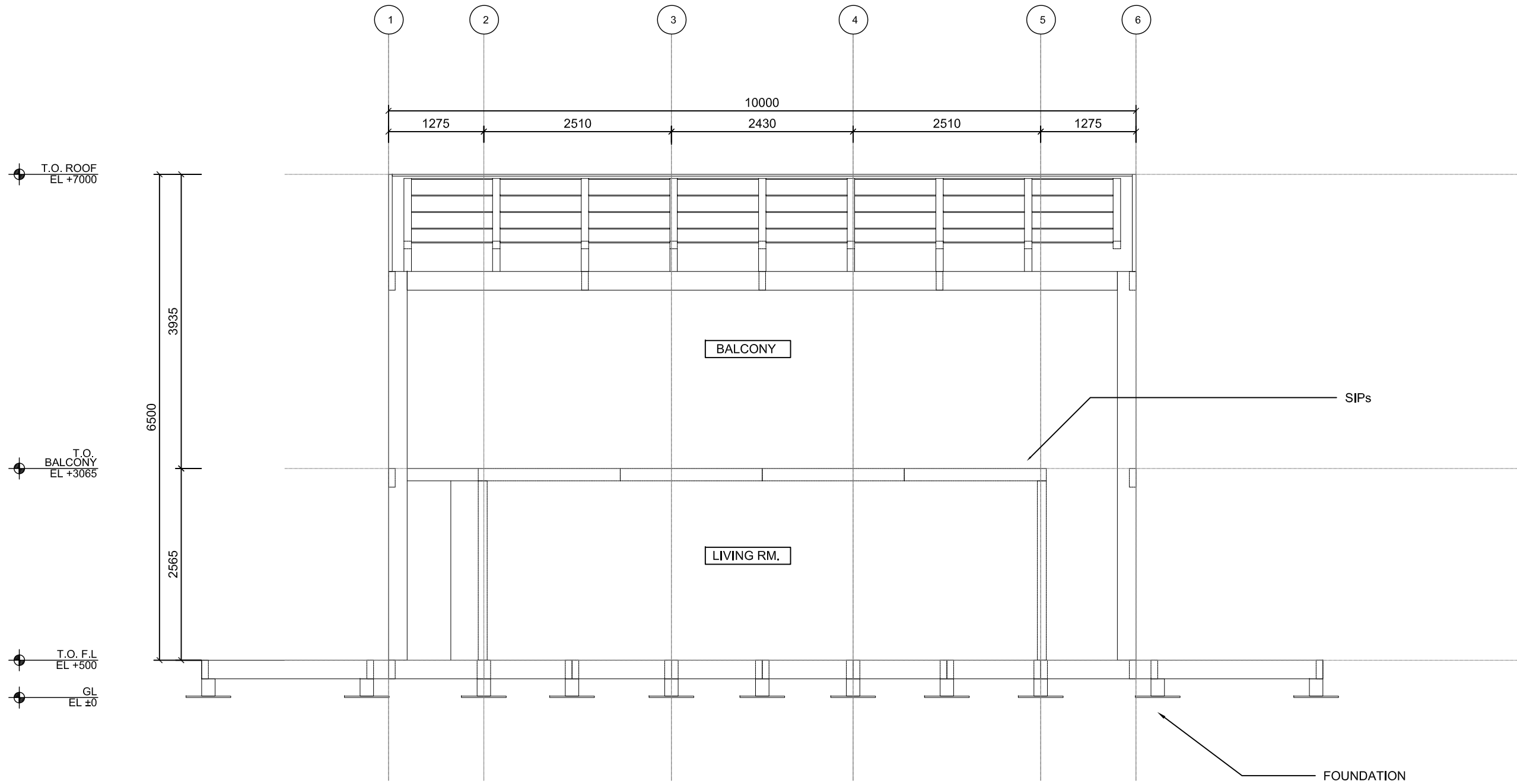
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DWG. Title
STRUCTURAL TRANSVERSAL SECTIONS

DWG. No.
ST-111





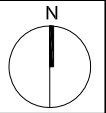
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Note:

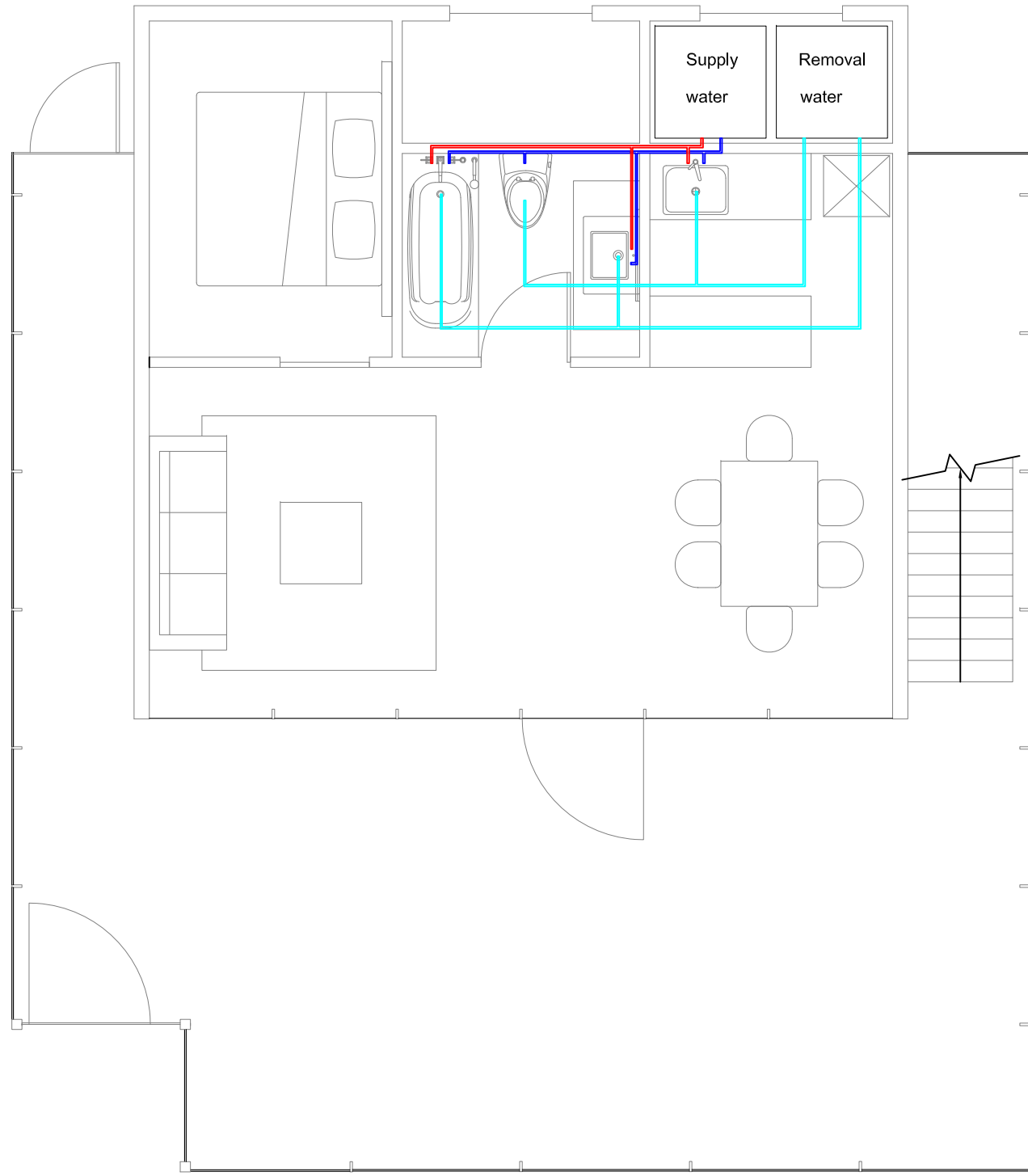


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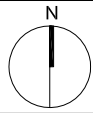
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DWG. Title
PLUMBING PLAN

DWG. No.
PL-001



HOT WATER —
COLD WATER —
REMOVAL WATER —

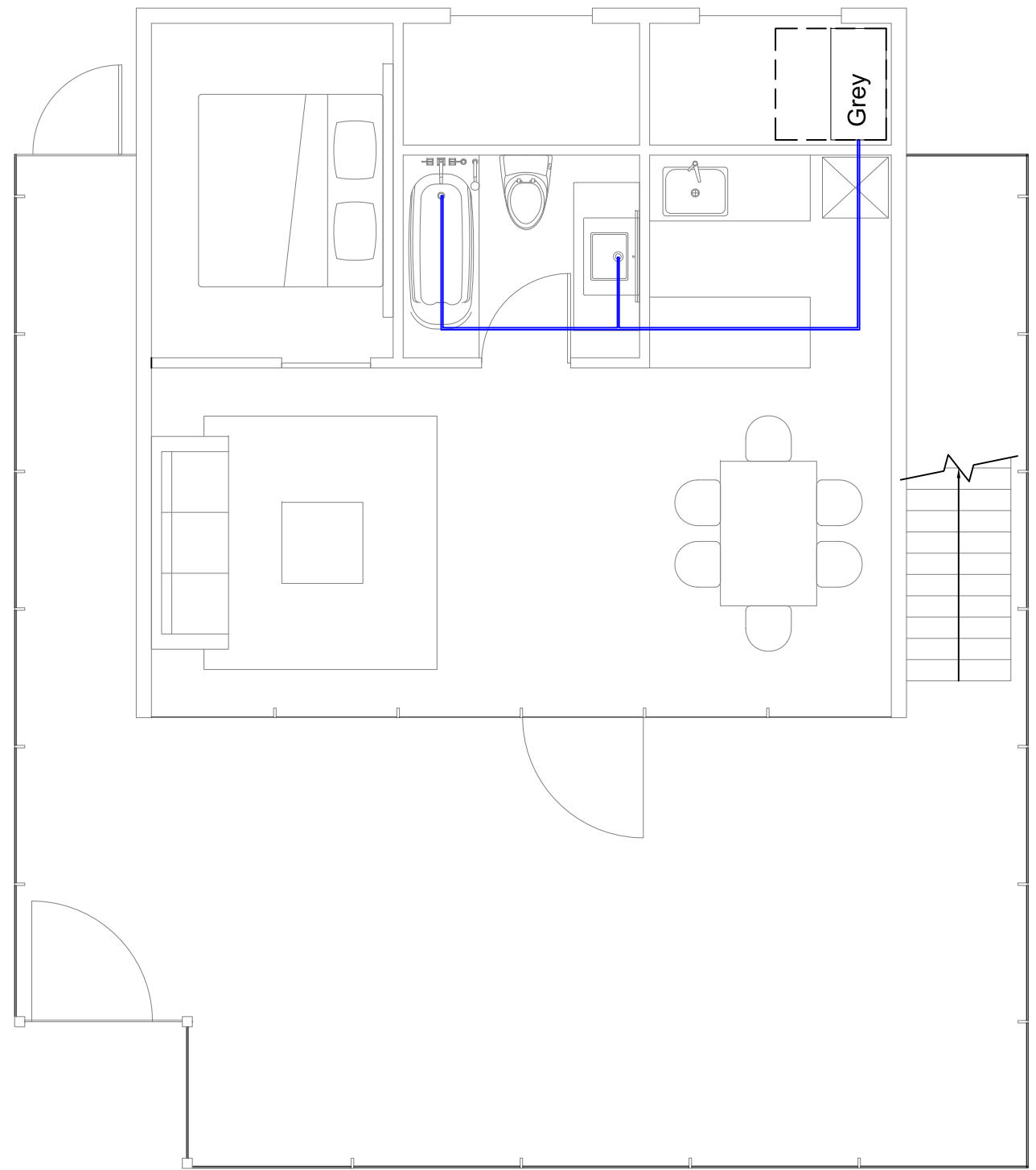


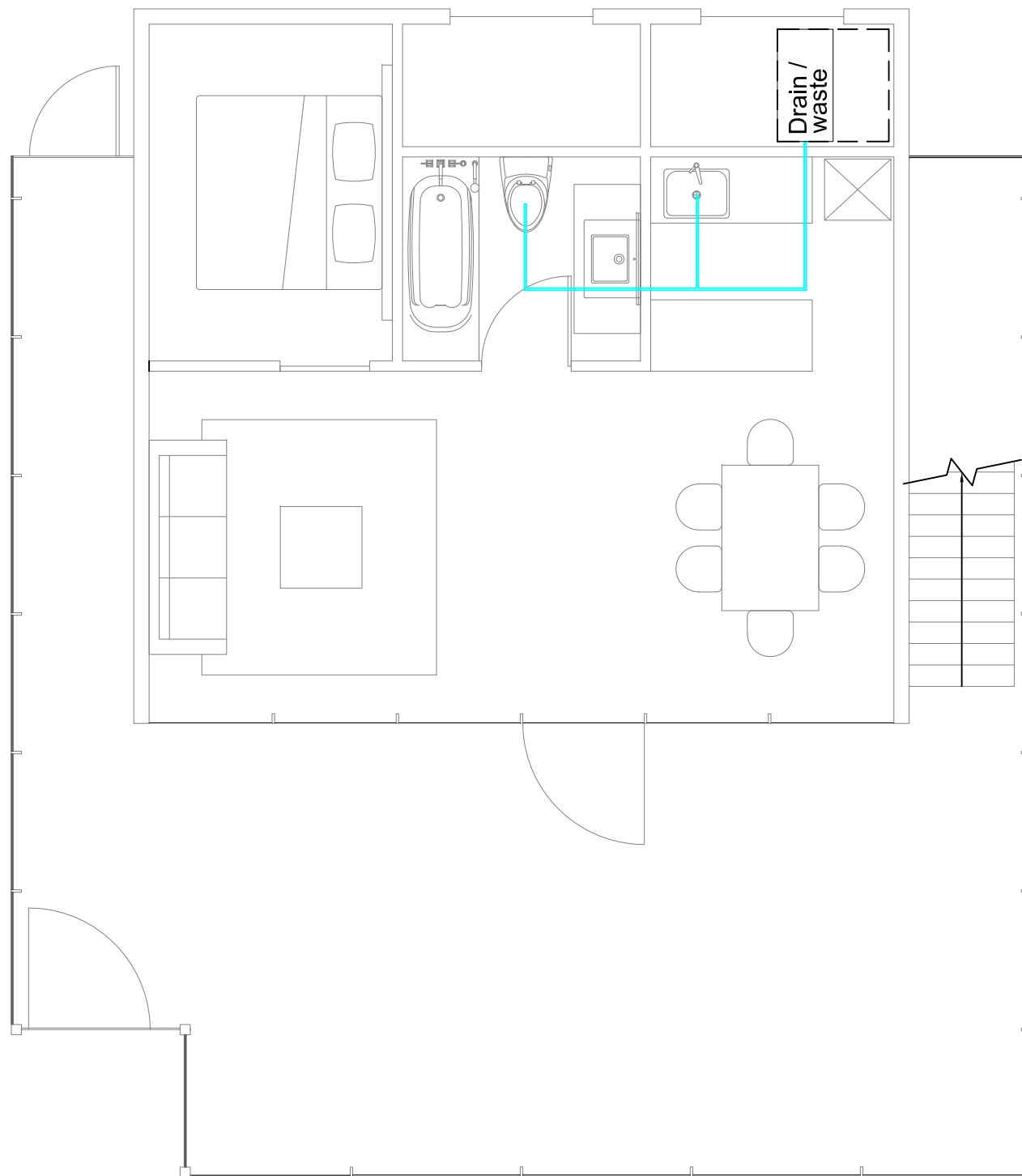
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DN	2013/04/01	SD Submission

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DWG. Title
GRAY WATER

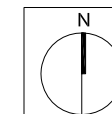
DWG. No.
PL-011





Consultants:

Note:



Mark	Date	Description
DN	2013/04/01	SD Submission

Drawn by: HY
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DWG. Title
DRAIN / WASTE / VENT

DWG. No.
PL-021

Project:



Institution:



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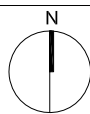
Address: 1001 Ta-Hsueh Road
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Contact: www.sde.tw



Consultants:

Note:



Mark	Date	Description
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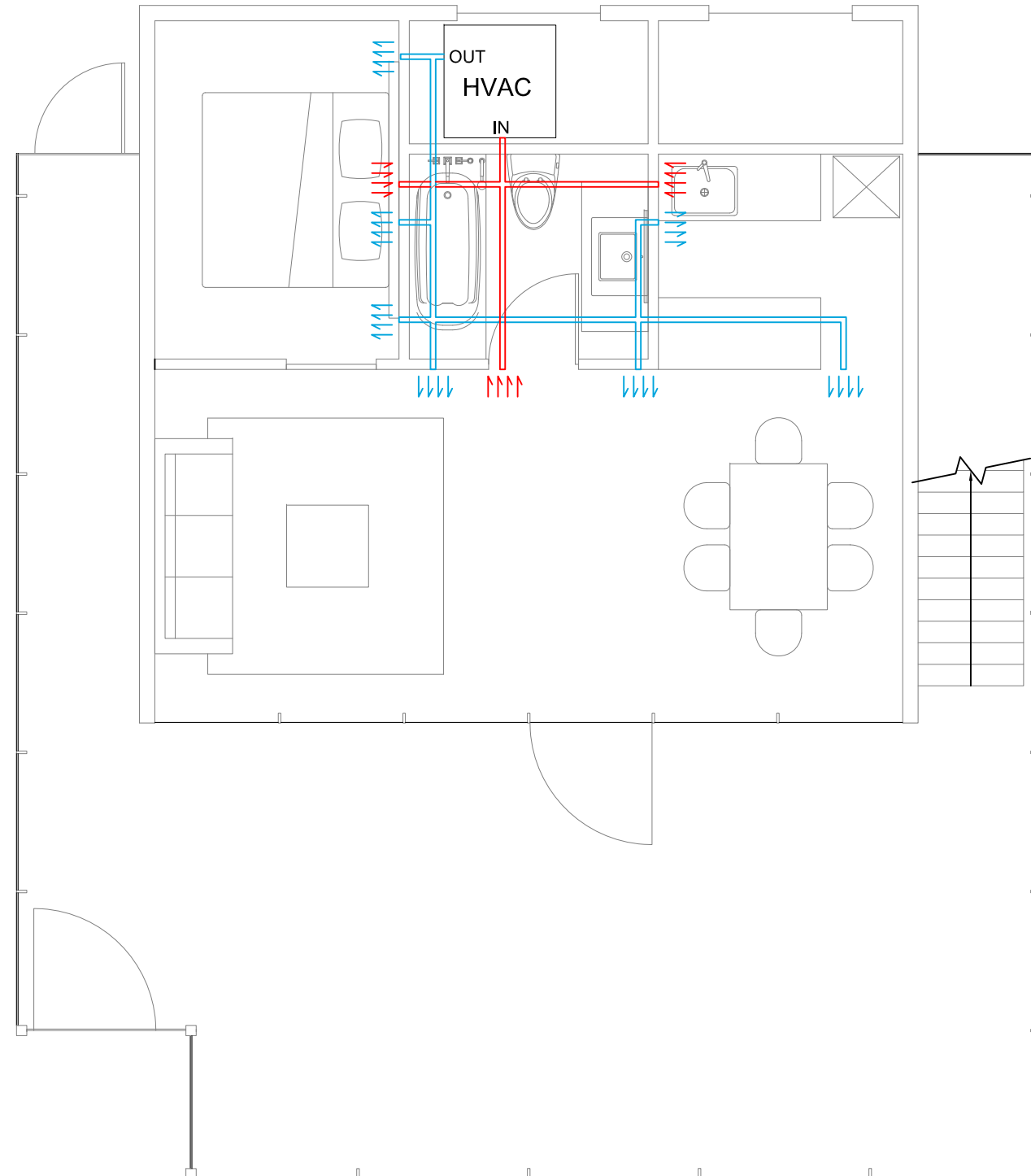
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DWG. Title

HVAC DISTRIBUTION PLAN

DWG. No.

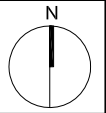
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Consultants:

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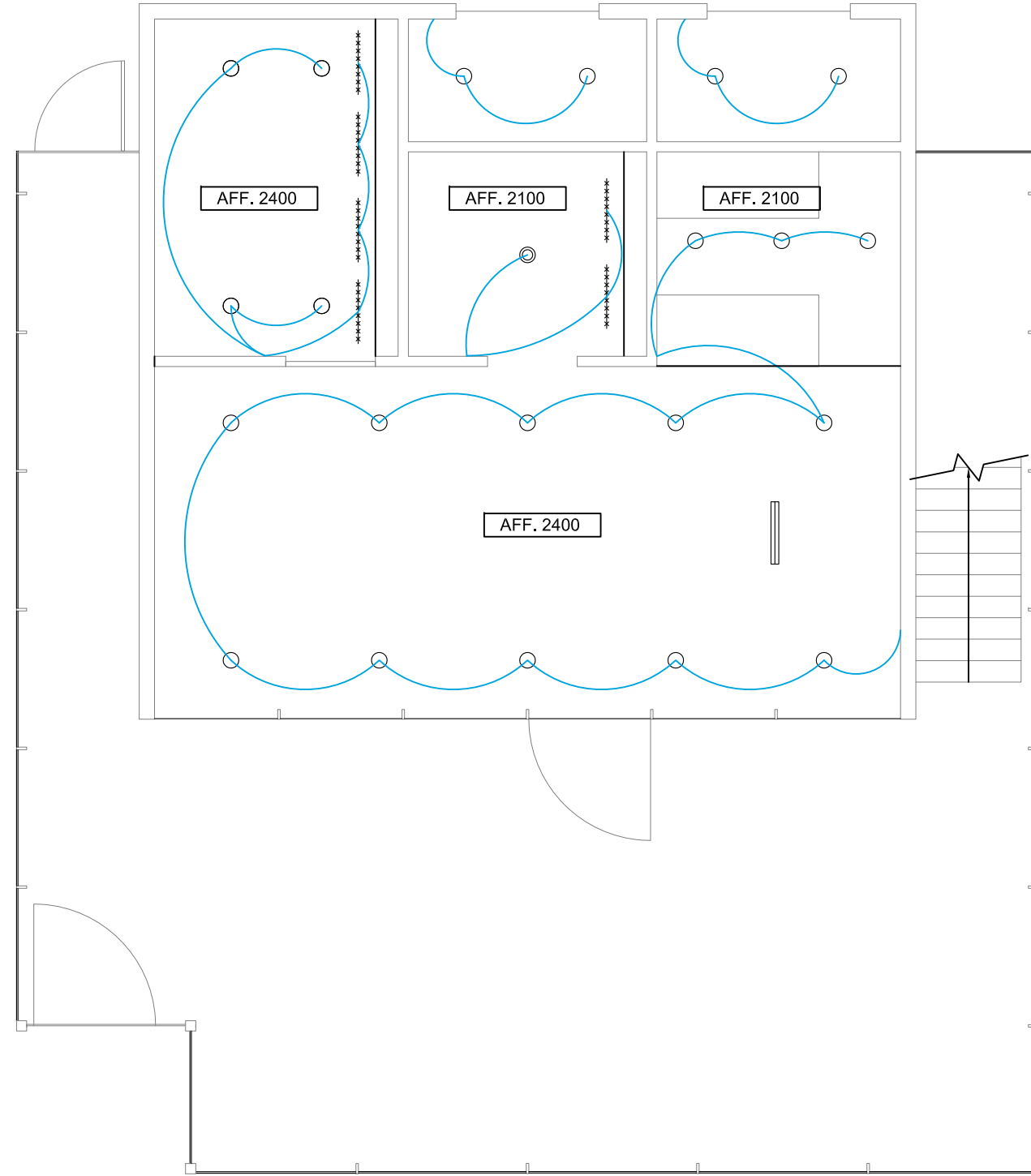


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DN	2013/04/01	SD Submission

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DWG. Title
LIGHTING PLAN

DWG. No.
EL-401



- RECESSED DOWN LIGHT
- ◎ RECESSED DOWN LIGHT
- ***** STRIP LED
- ==== LIGHTING FIXTURE



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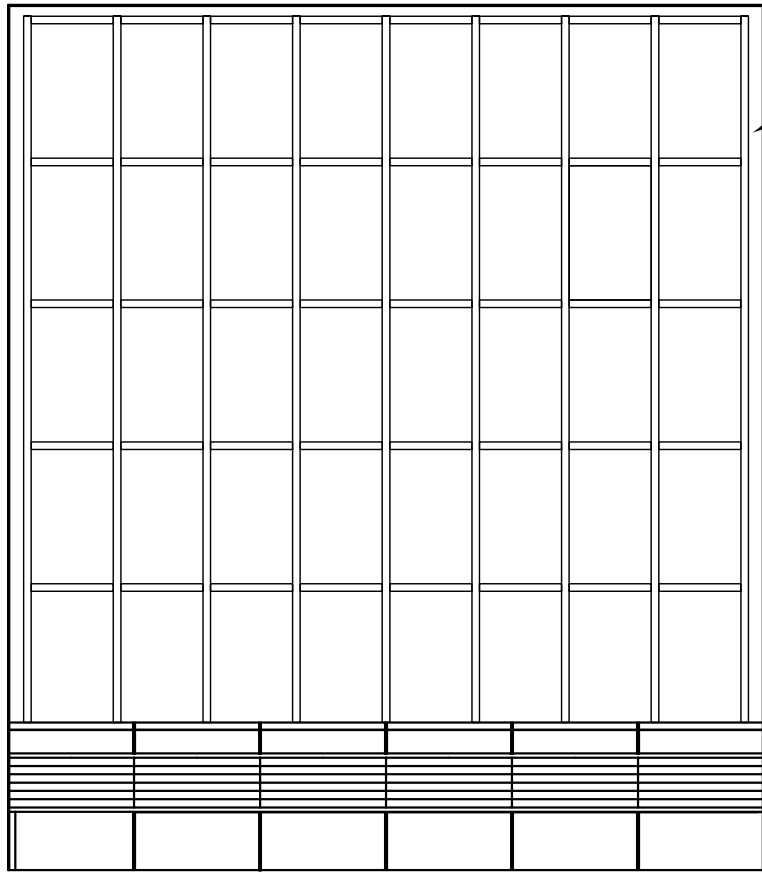
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DWG. Title
**PHOTOVOLTAIC SYSTEM:
GENERAL**

DWG. No.
PV-001

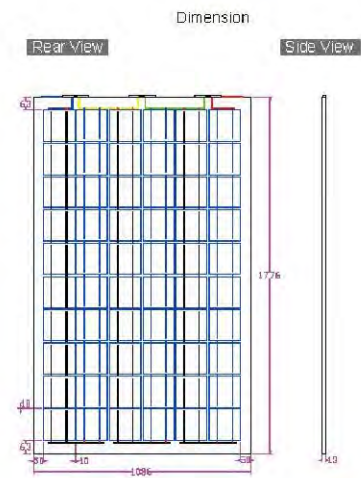


**Light-thru BIPV Module
GCG210-6P106FL3**

ELECTRICAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
I_{max}	2.18 A (±5%)	Dimension	1776 (L) x 1086 (W) x 130 (mm)
V_{oc}	36.11 V	Weight	65 kg
I_{sc}	7.75 A	Cell type	6" Poly (150*150 mm)
V_{mp}	29.37 V	Number of Cells	60
I_{mp}	7.4 A	Junction Box	IP65 Type Edge connectors with 3 bypass diodes
System Voltage	1000 V	Cable	Type cable with plugs x 1 (0.5 Meter, 4 mm ²)
Maximum Overcurrent Protection	15 A	Connectors	IP67 Type Plugs
Module Efficiency	10.9%	Front glass	8 mm low-iron tempered glass
Standard Test Conditions: 1,000 W/m ² , AM 1.5, and cell temperature of 25°C		Encapsulation	EVA (Ethylene-Vinyl-Acetate)
		Rear glass	6mm tempered glass
		Transparency	24%

OPERATION CONDITIONS	
Temperature	-40°C to 45°C
Hail Impact	#2.5cm ice-ball with 23 m/sec
Temperature Coeff. of V_{oc}	-0.124 %/°C
Temperature Coeff. of I_{sc}	0.004 A/°C
Temperature Coeff. of P_{mp}	-0.400 %/K

All specifications are subject to change without prior notice.



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