

UNIVERSITAS ISLAM INDONESIA

BACHELOR FINAL PROJECT
STUDIO
Departement of Architecture
Faculty of Civil Engineering
and Planning
ISLAMIC UNIVERSITY OF INDONESIA

PROJECT NAME

*Biophilic Rental Flats Design in
Ngentak Sapen, Yogyakarta*

PROJECT YEAR

2017

PROJECT ADDRESS

Jalan Raya Timoho, Ngentak Sapen,
Sleman, Daerah Istimewa
Yogyakarta 55281

STUDENT

Aisha Amrullah
13512184

LECTURER

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DRAWING TITLE

BLOCKPLAN KAWASAN

DRAWING SCALE

NOTE



PAGE NO.

1

TOTAL PAGE

32

— SUNGAI GAJAHWONG
- - - REL KERETA API SAPEN





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DRAWING TITLE

SITUASI

DRAWING SCALE

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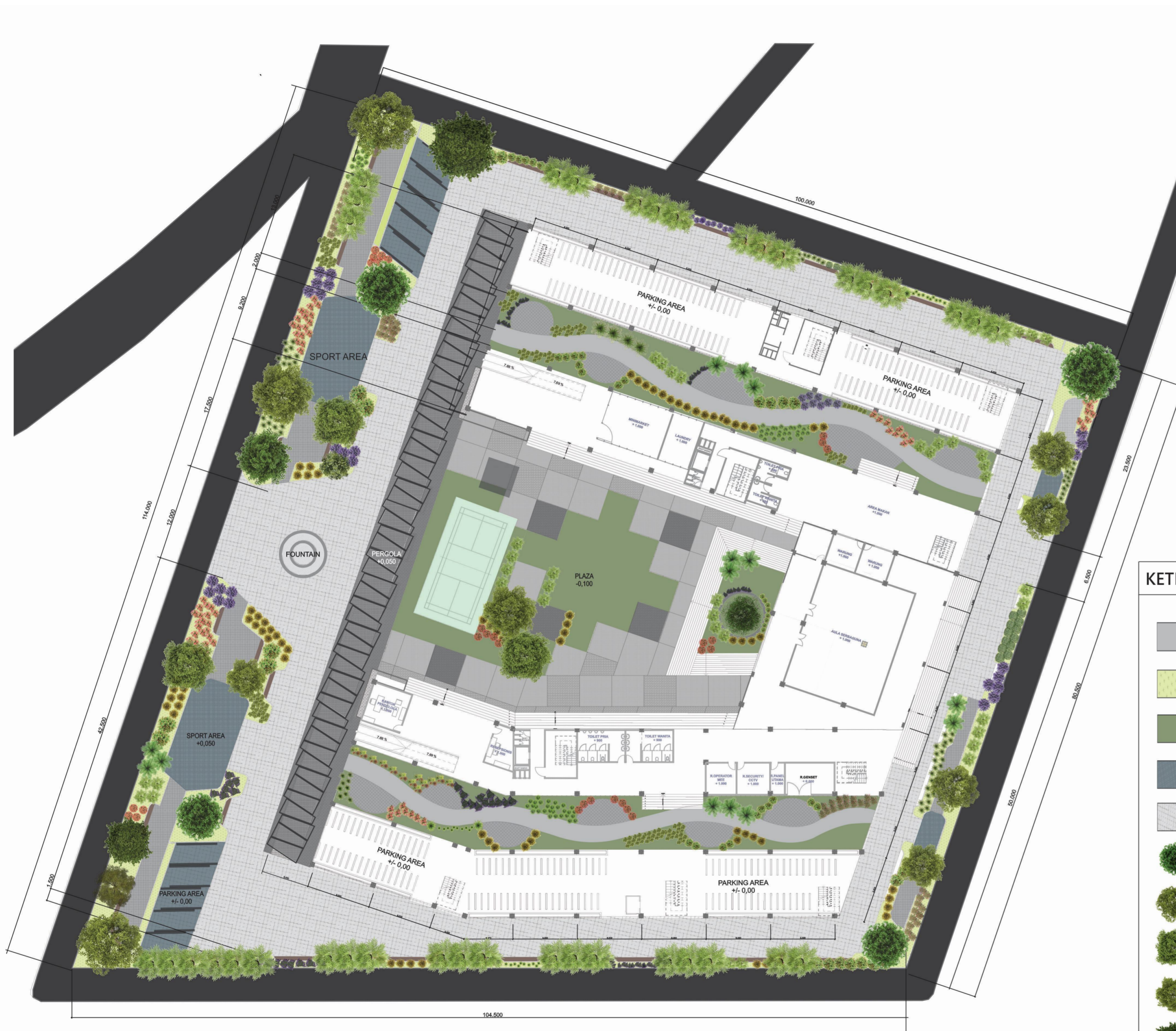


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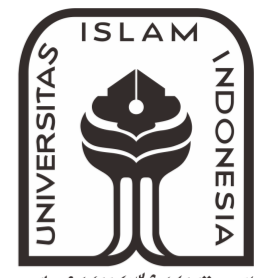
32



KETERANGAN:

	Perkerasan Paving
	Rumput Gajah Mini (untuk taman)
	Rumput Gajah Mini (bisa diinjak)
	Perkerasan Batu Alam
	Grassblock
	Pohon Sawo
	Pohon Nangka
	Pohon Rambutan
	Pohon Jambu air
	Pohon Belimbing
	Pohon Talok
	Pohon Sengon
	Pohon Asam kranji

	Cemara Angin
	Bambu Kuning
	Kenanga
	Nusa Indah
	Palem Merah
	Dadap Merah
	Lidah Mertua
	Bunga Geranium
	Bunga Gardenia
	Bunga Lavender
	Bunga Mawar
	Tanaman Dracanea
	Bunga Kupu-Kupu
	Bromelia
	Lili Paris
	Kaktus Opuntia



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DRAWING TITLE

RENCANA TAPAK

DRAWING SCALE

NOTE



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DENAH SEMI BASEMENT

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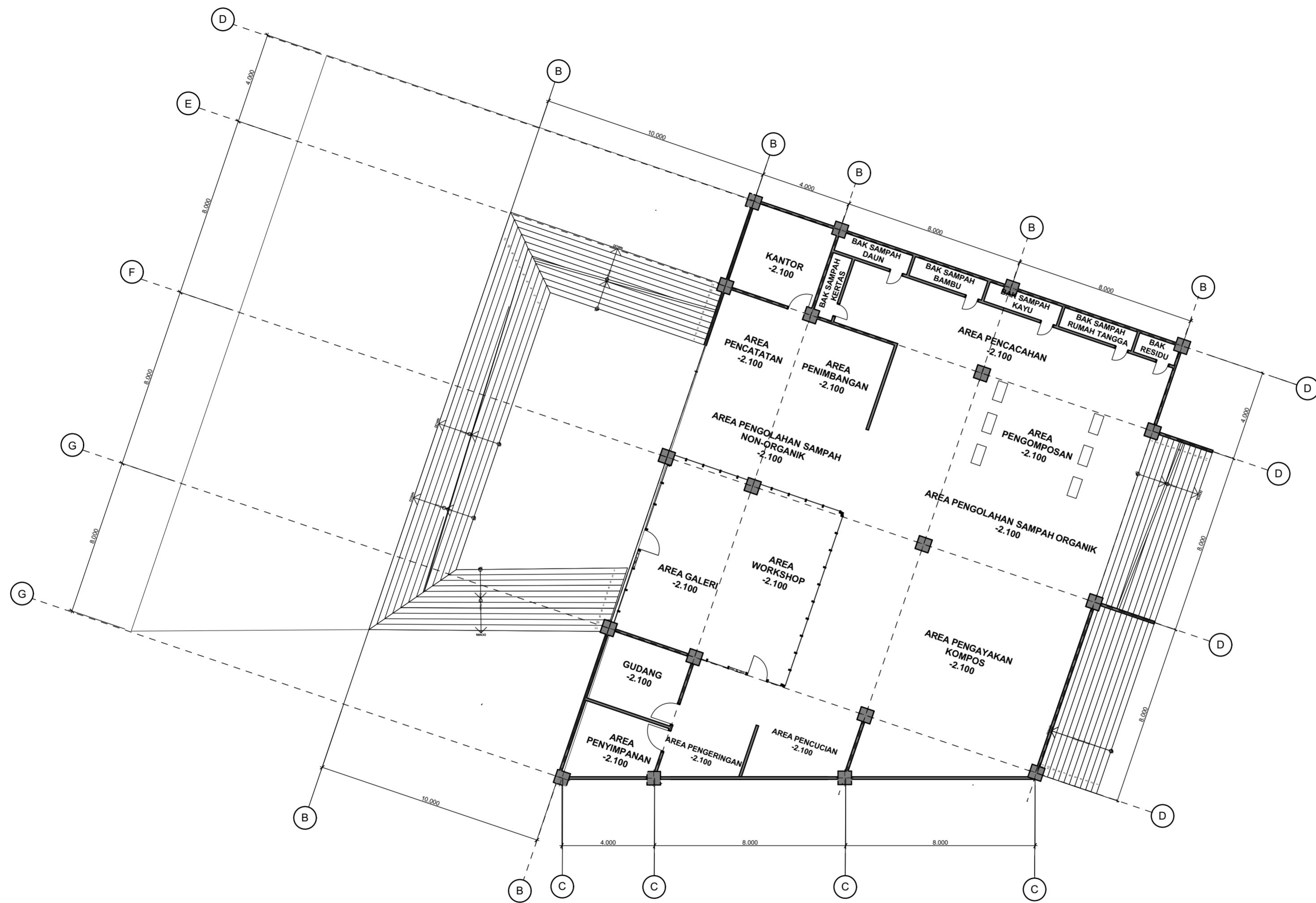


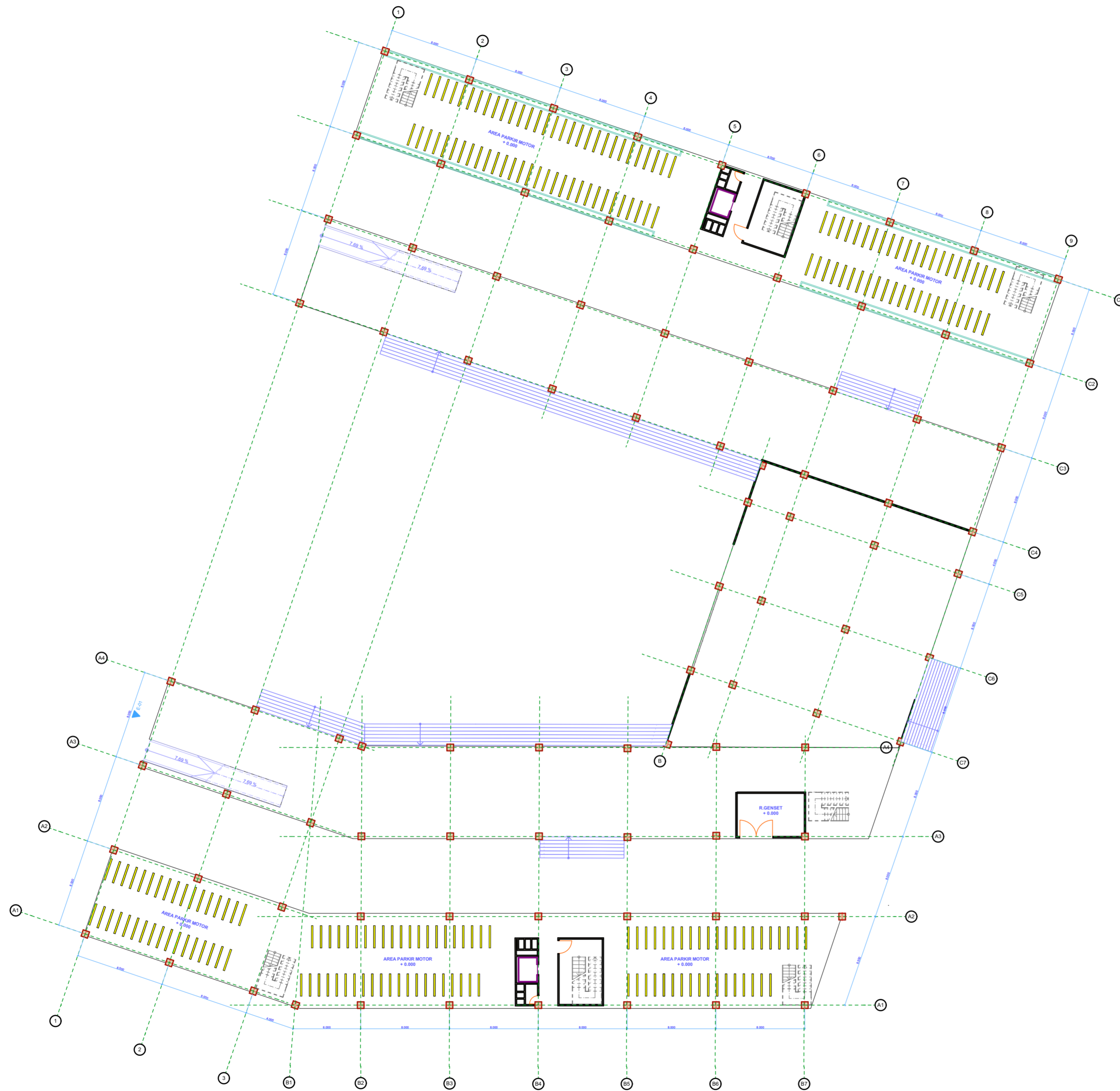
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DRAWING TITLE

DENAH GROUND FLOOR

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1:300

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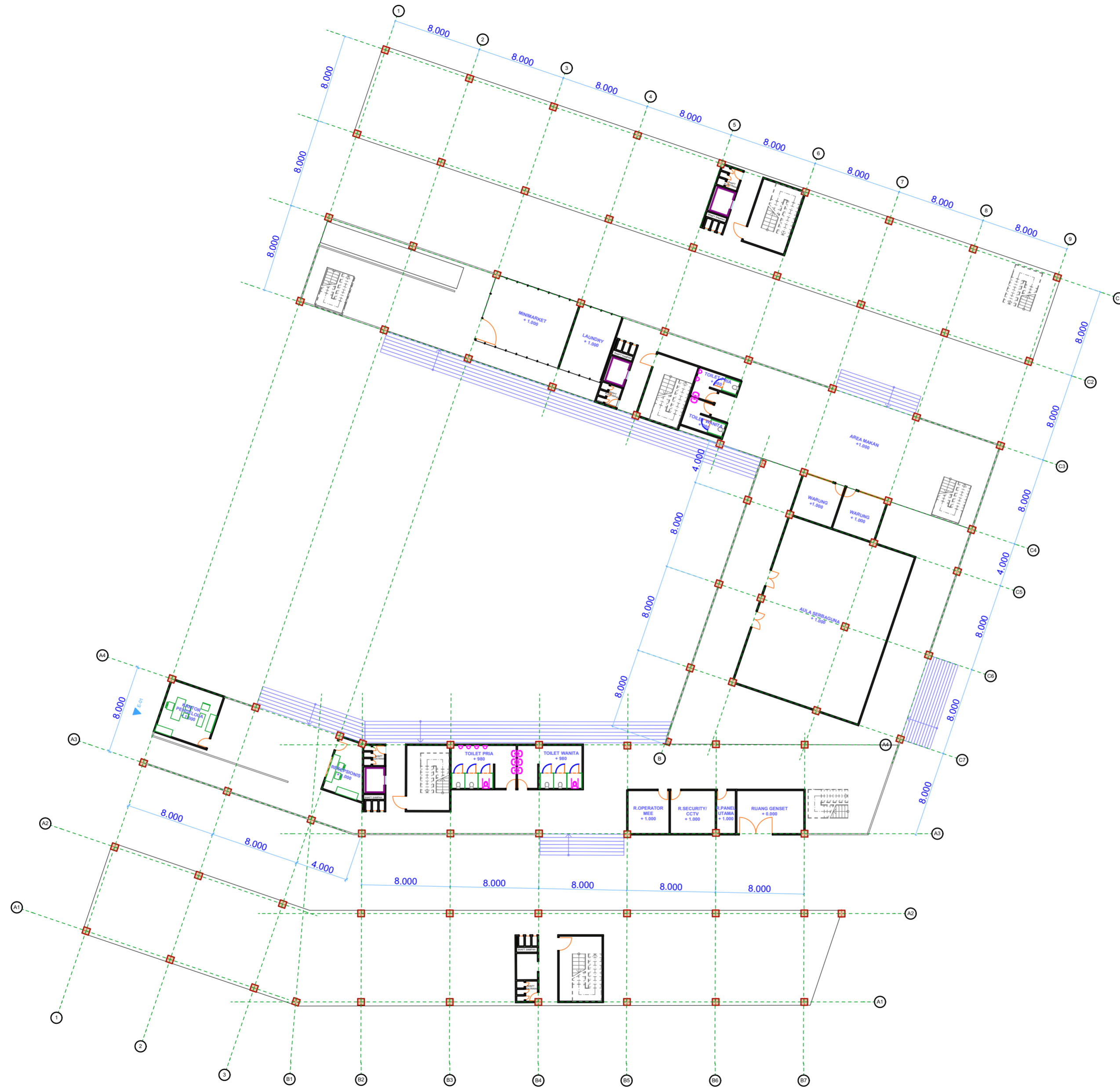


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DENAH LT1

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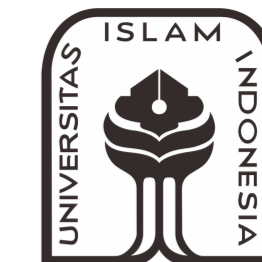


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DRAWING TITLE

DENAH LT2

DRAWING SCALE

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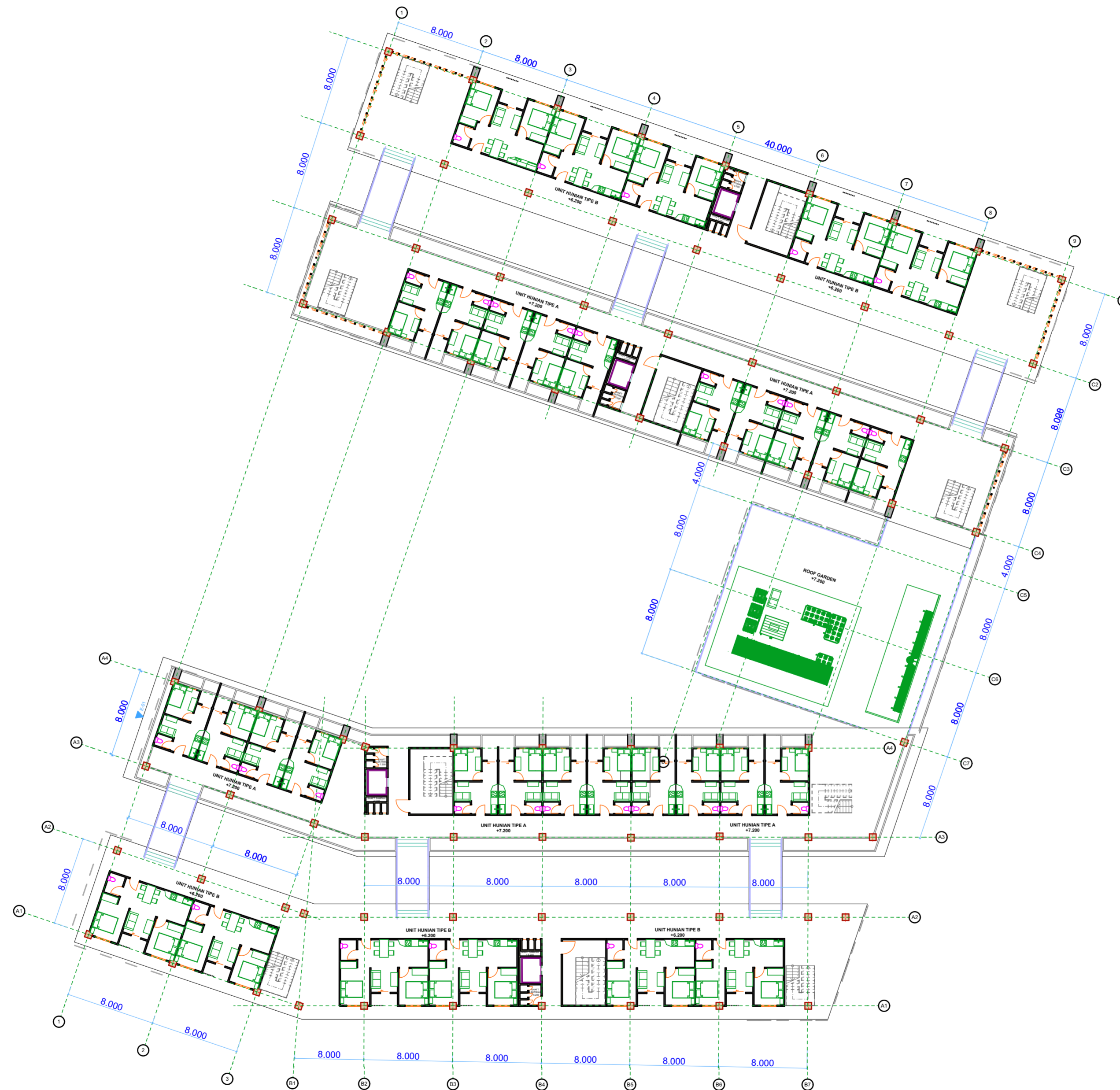


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DENAH LT3

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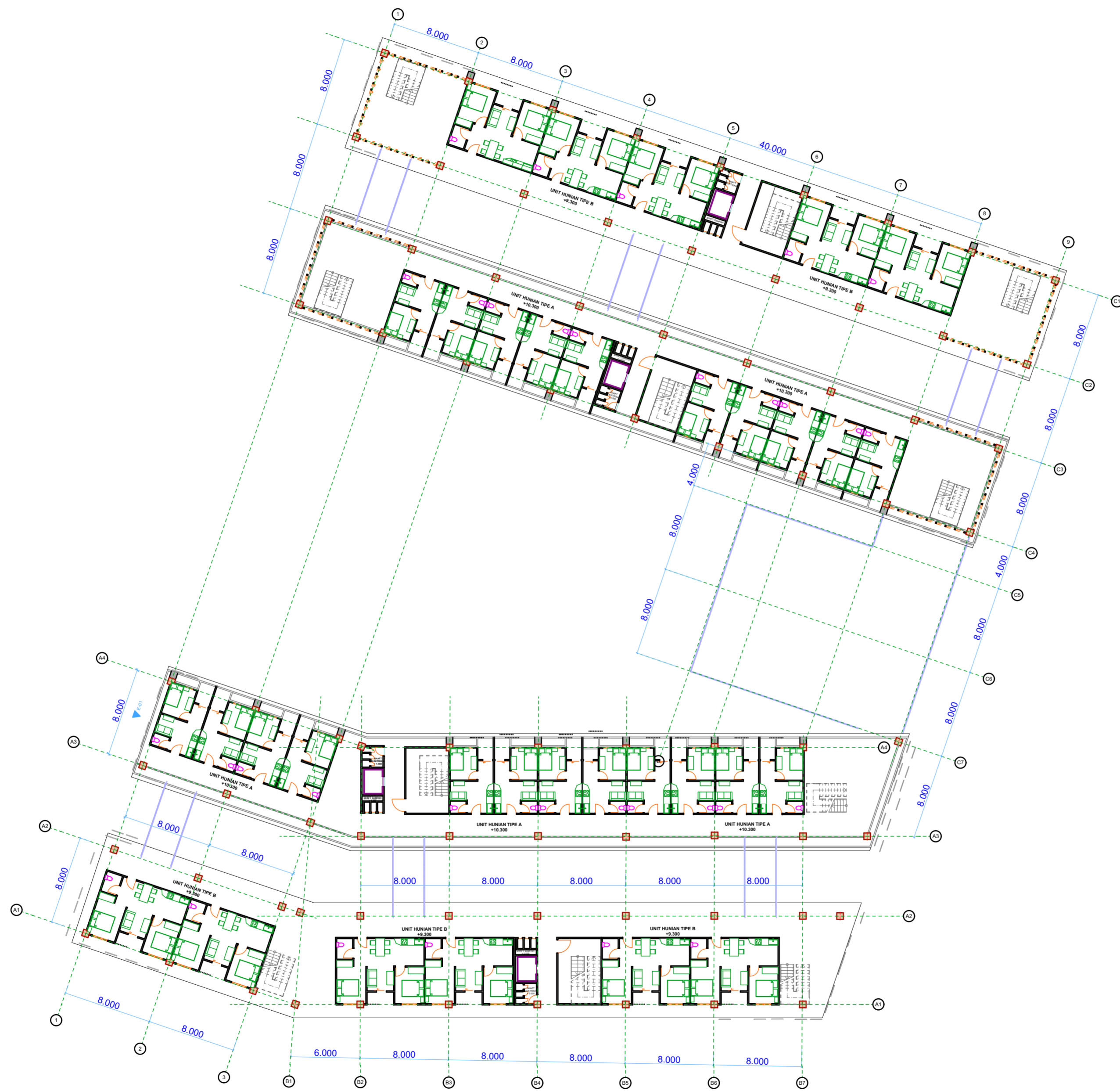


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DENAH LT4

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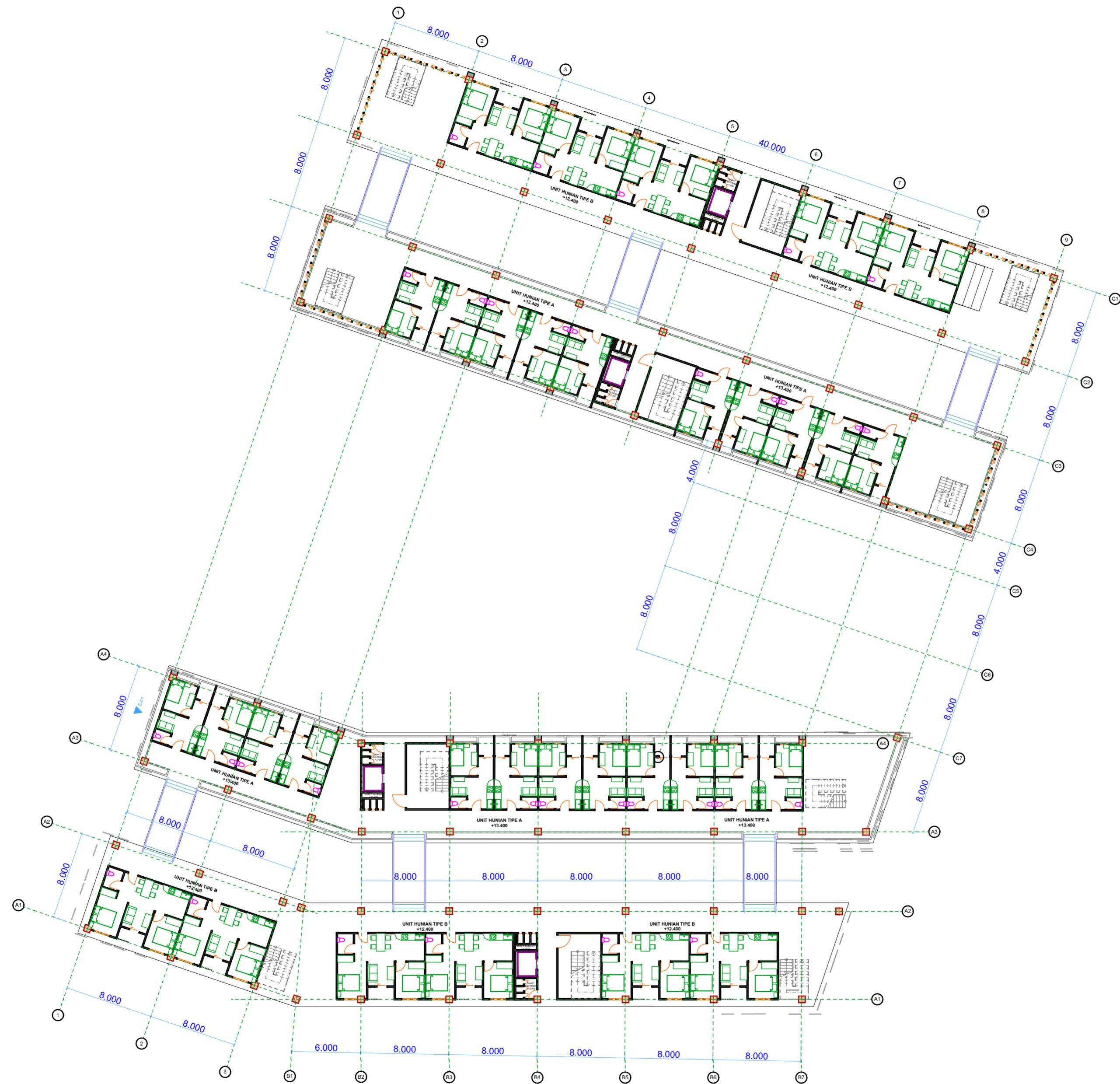
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DRAWING TITLE

DENAH LT5

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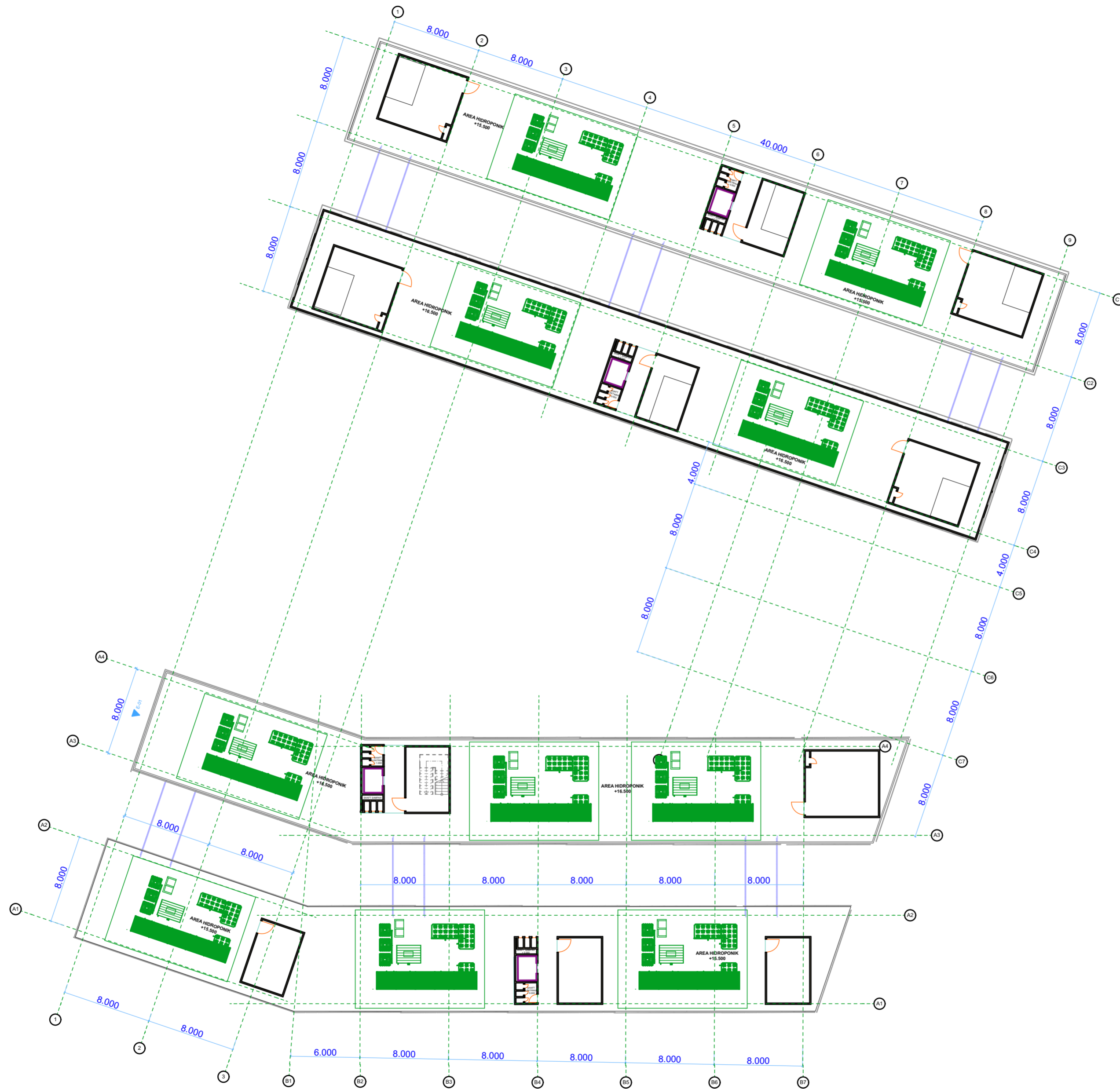


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DRAWING TITLE

DENAH ROOFTOP

DRAWING SCALE

1:300

NOTE



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TAMPAK UTARA

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TAMPAK TIMUR

DRAWING SCALE

NOTE



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جامعة الإسلام
الاندونيسية

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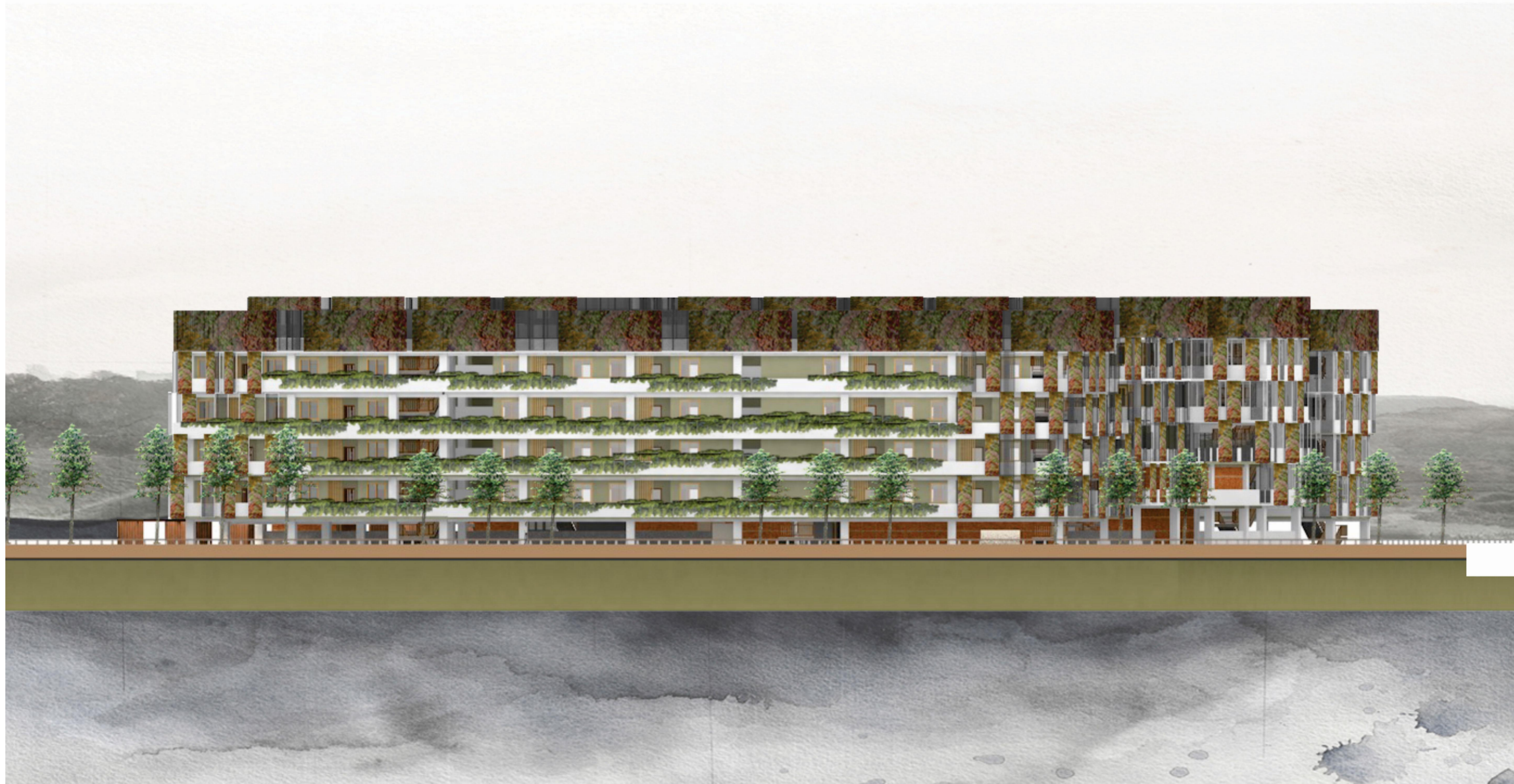
Dr. Ing. Putu Ayu P. Agustiananda, ST. MT

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TAMPAK SELATAN

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NOTE



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جامعة الإسلام
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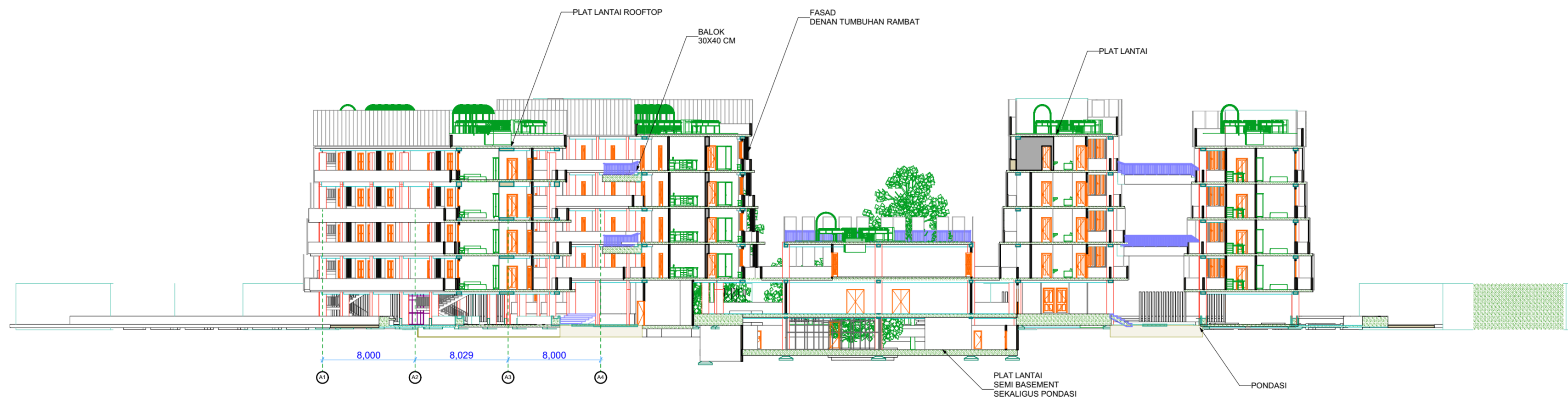
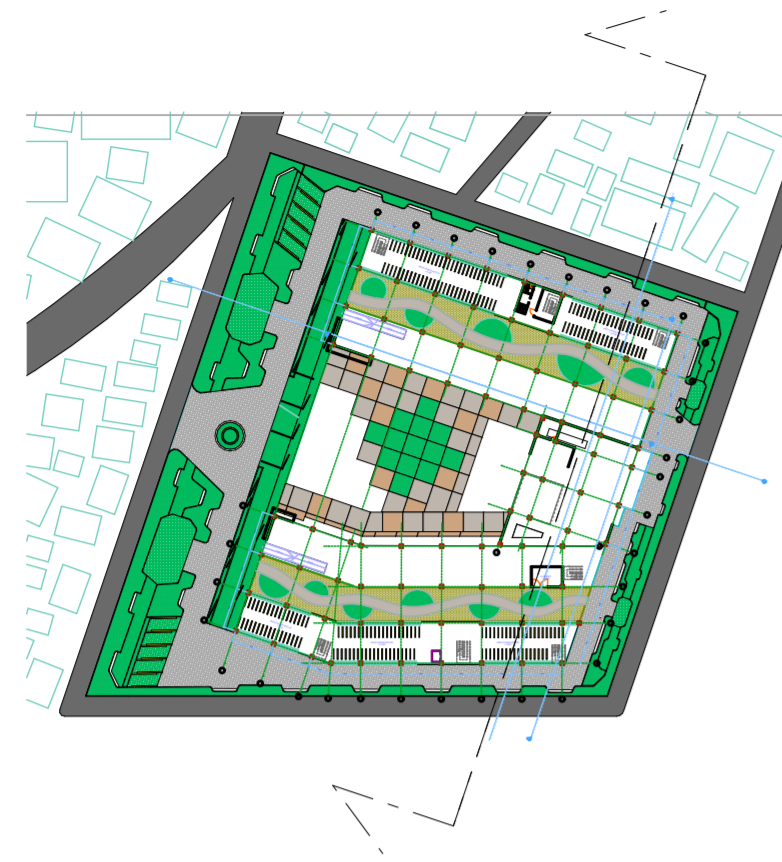


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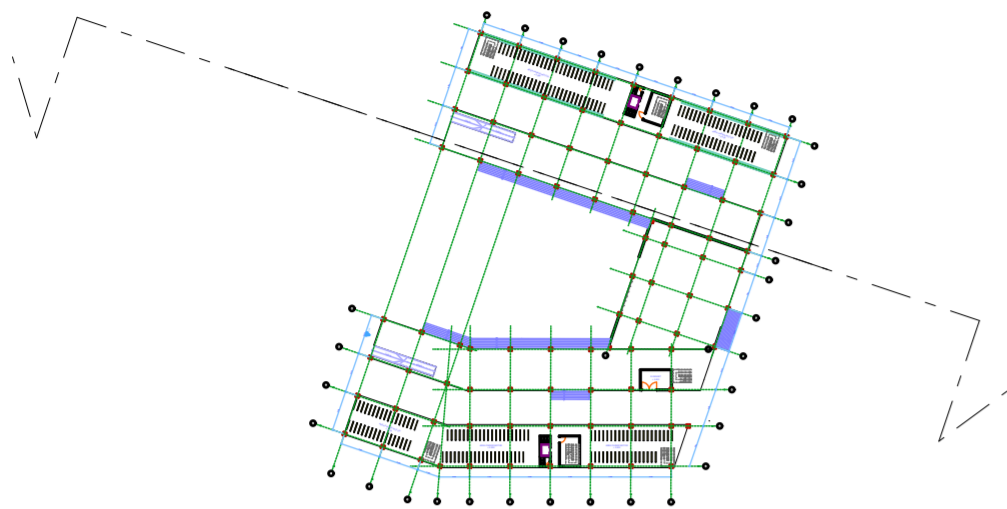
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DRAWING TITLE

POT.KAWASAN-B

DRAWING SCALE

1:1500, 1:300

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DRAWING TITLE

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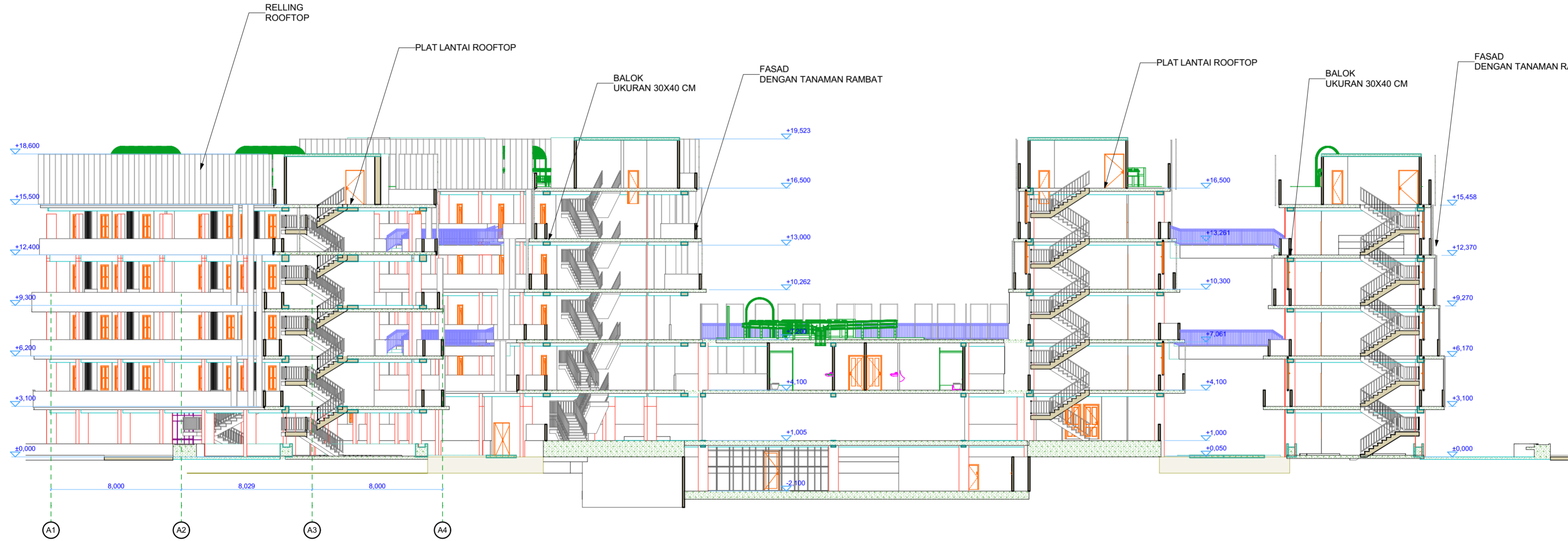
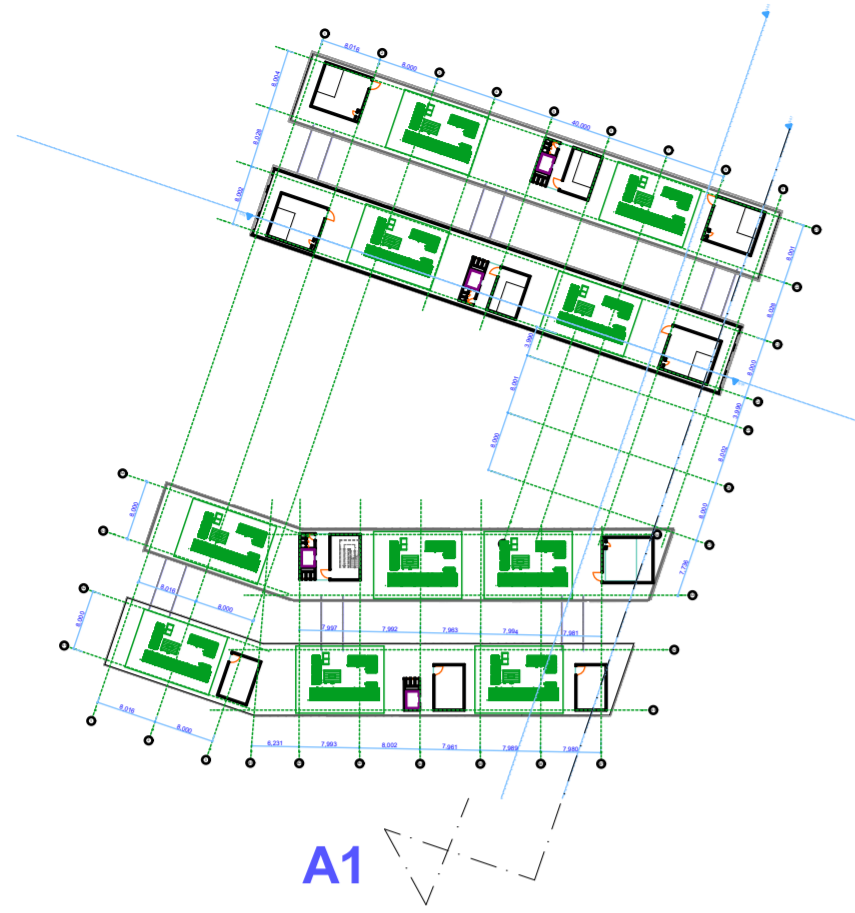
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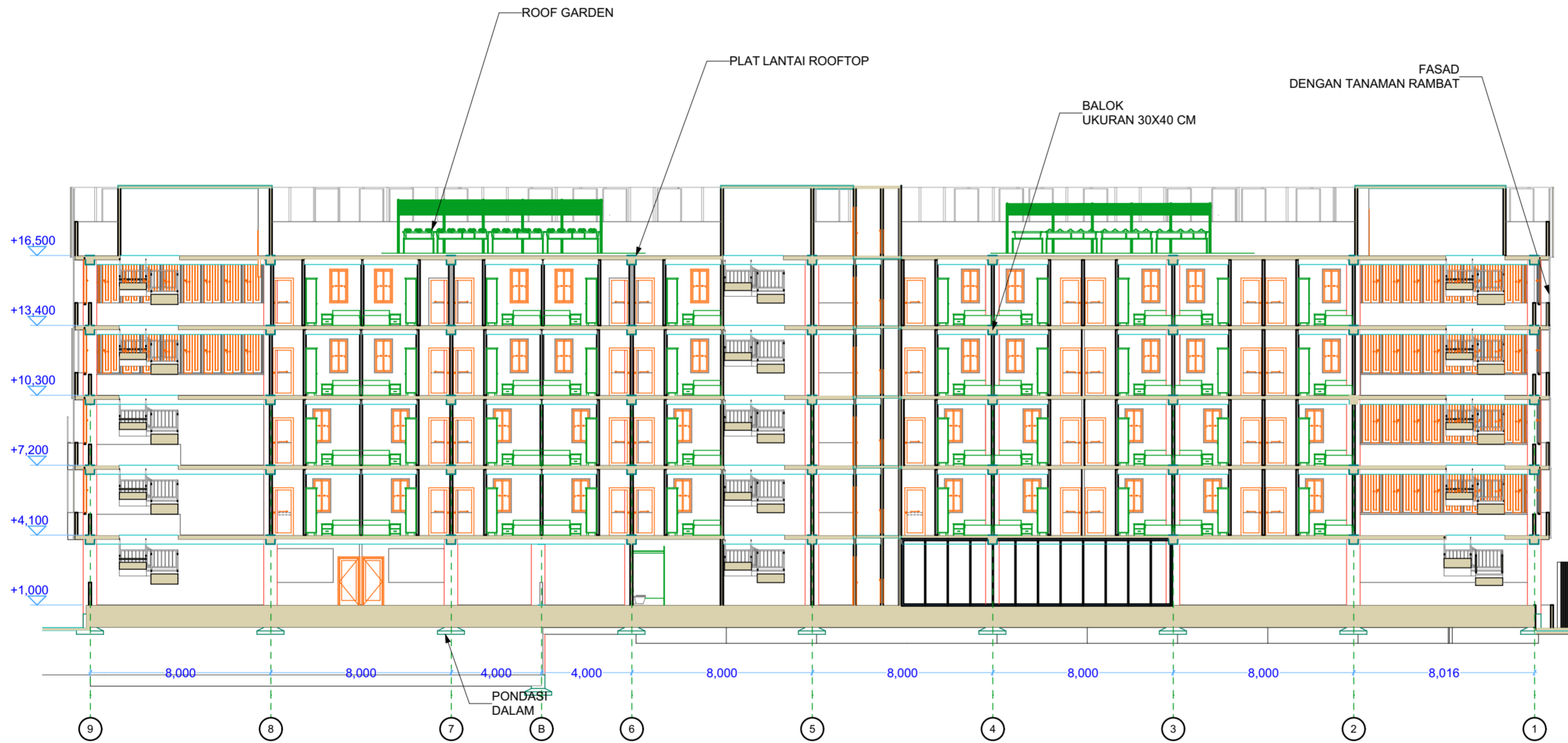
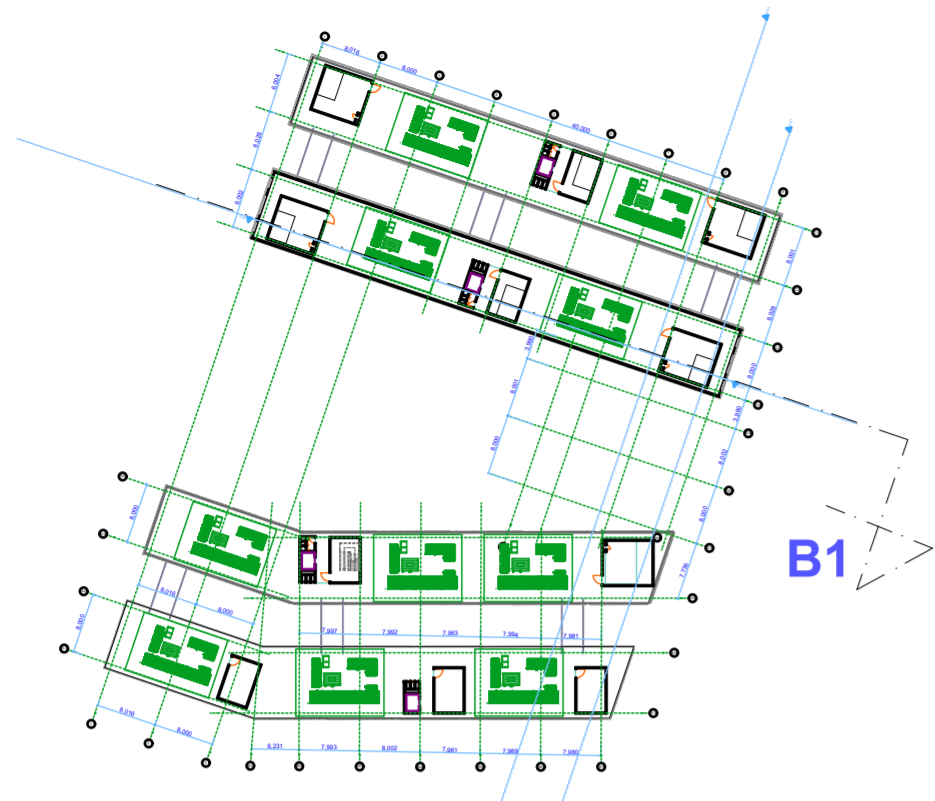
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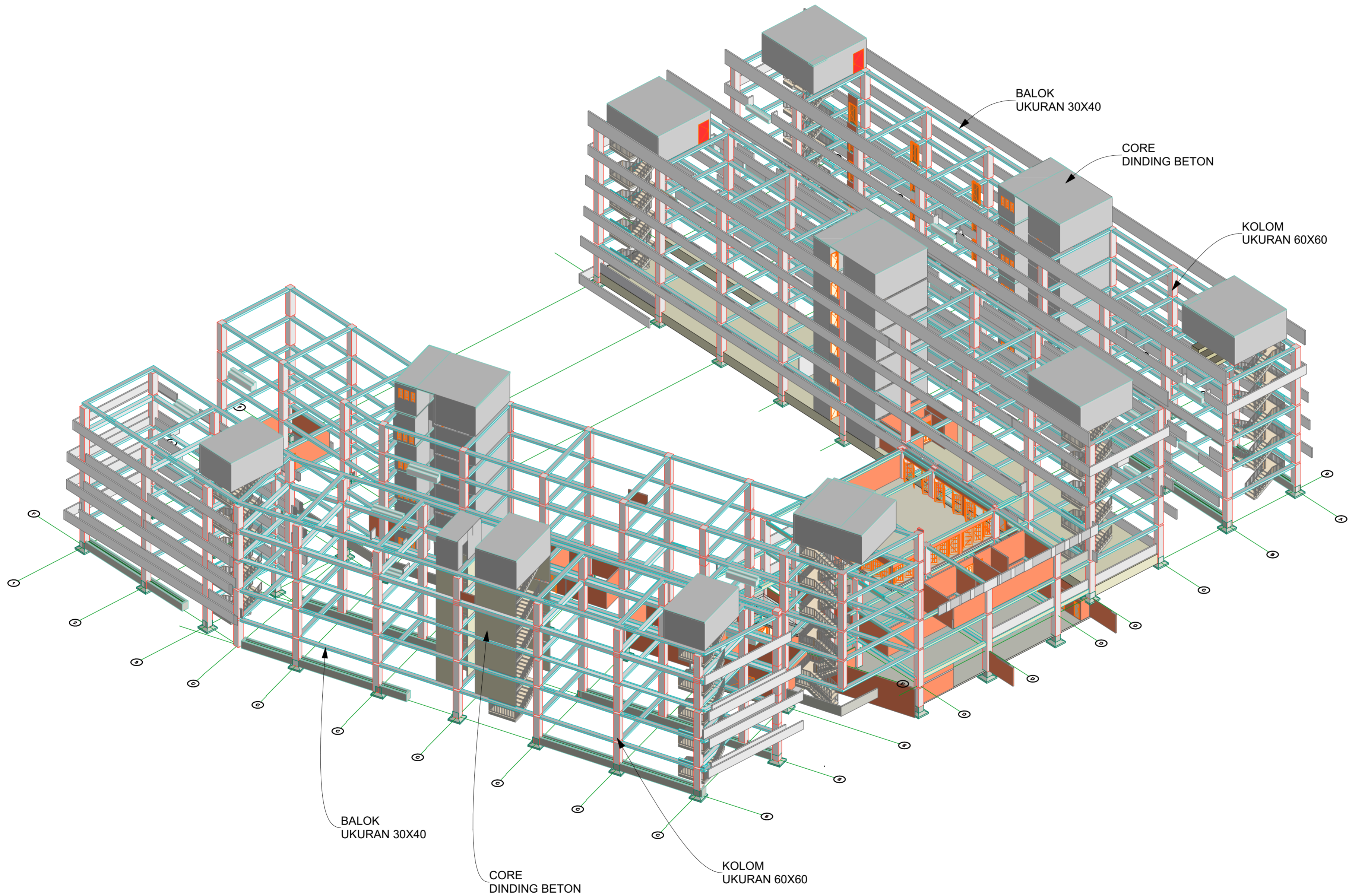
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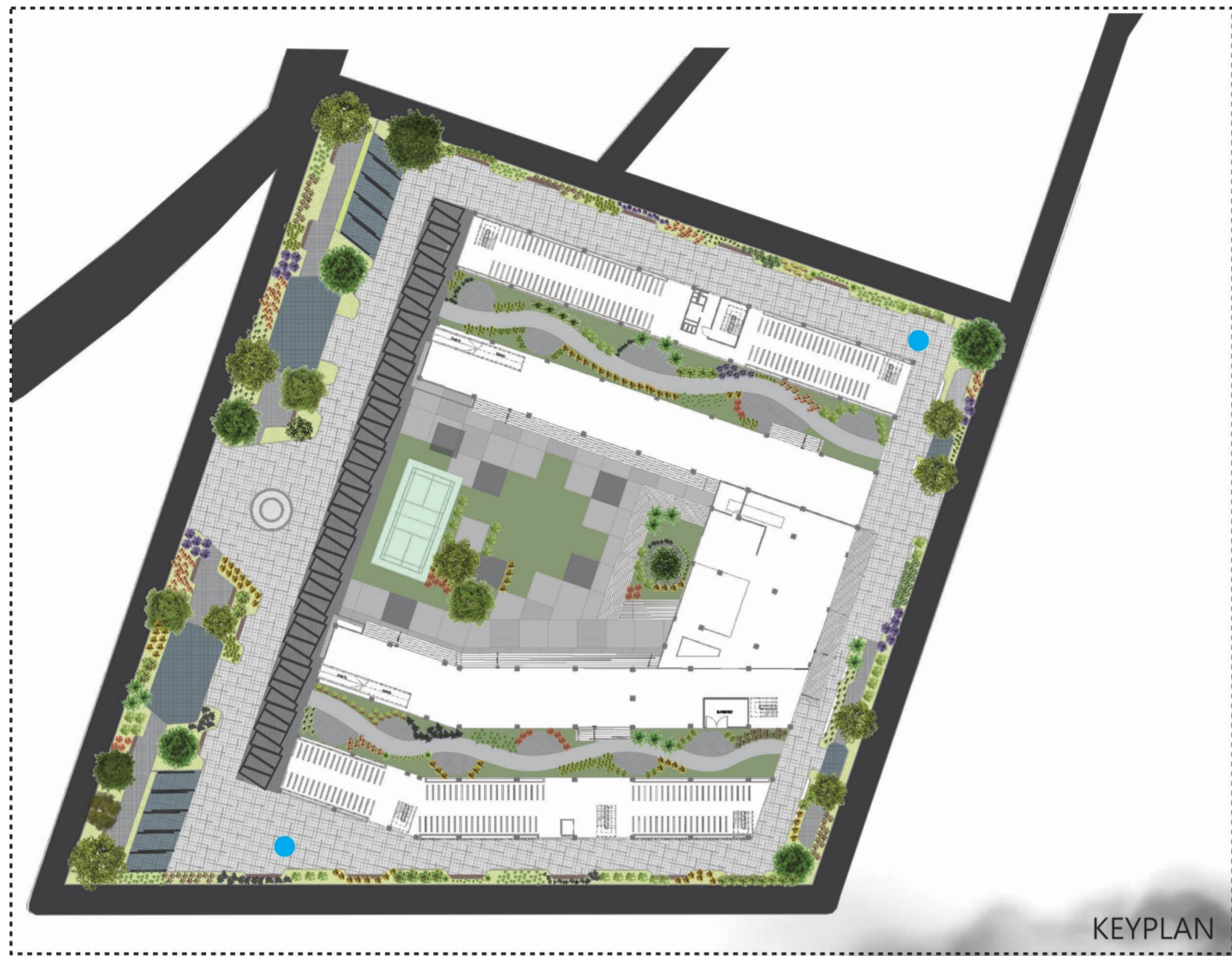
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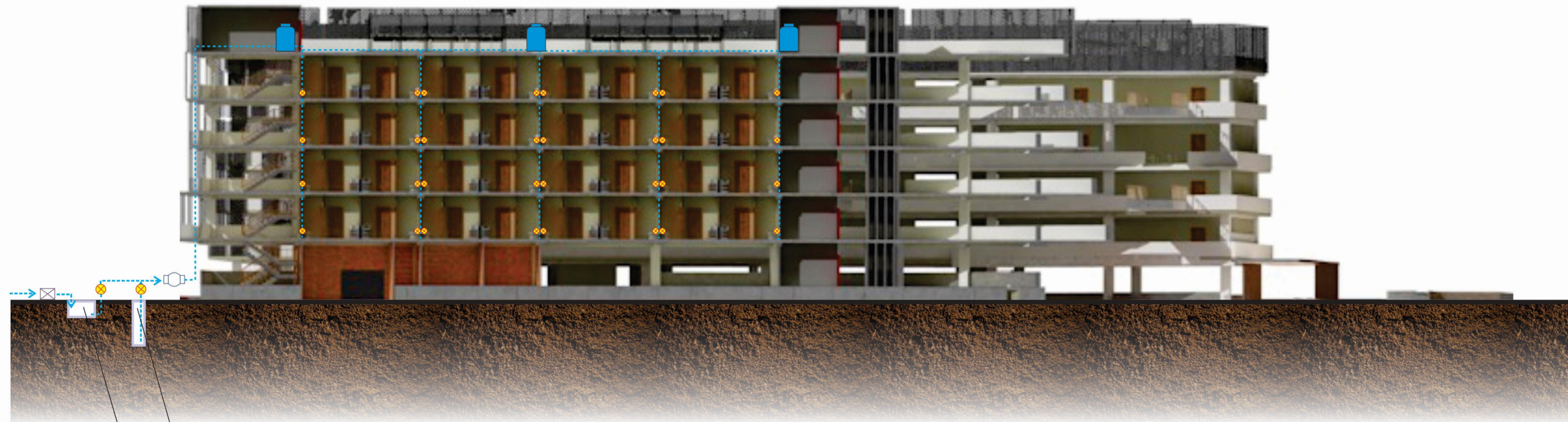
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KEYPLAN



Terdapat 2 sumber air bersih di area site, yaitu sumur dan PDAM.
Di tiap tower terdapat roof tank untuk mendistribusikan air bersih menuju fixture.



Sumur
Underground tank

KETERANGAN:

-  Roof Tank
-  Jalur Pipa
-  Sumber Air Bersih (Sumur)
-  Meteran PDAM
-  Pompa
-  Stop Kran



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DRAWING TITLE

**SKEMA PENYEDIAAN AIR
BERSIH**

DRAWING SCALE

NOTE

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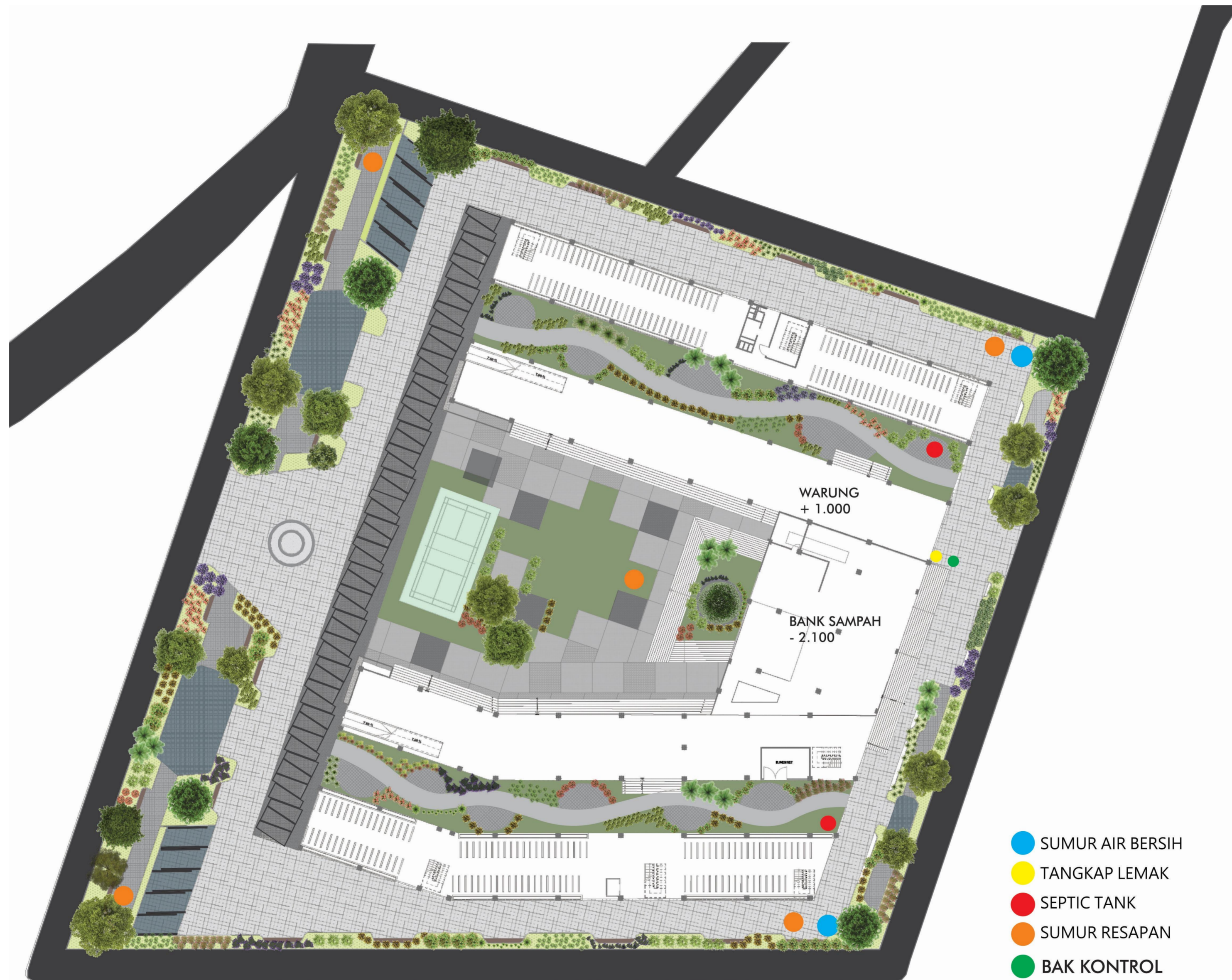
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DRAWING TITLE

**SKEMA PENGOLAHAN LIMBAH
PADAT DAN CAIR**

DRAWING SCALE

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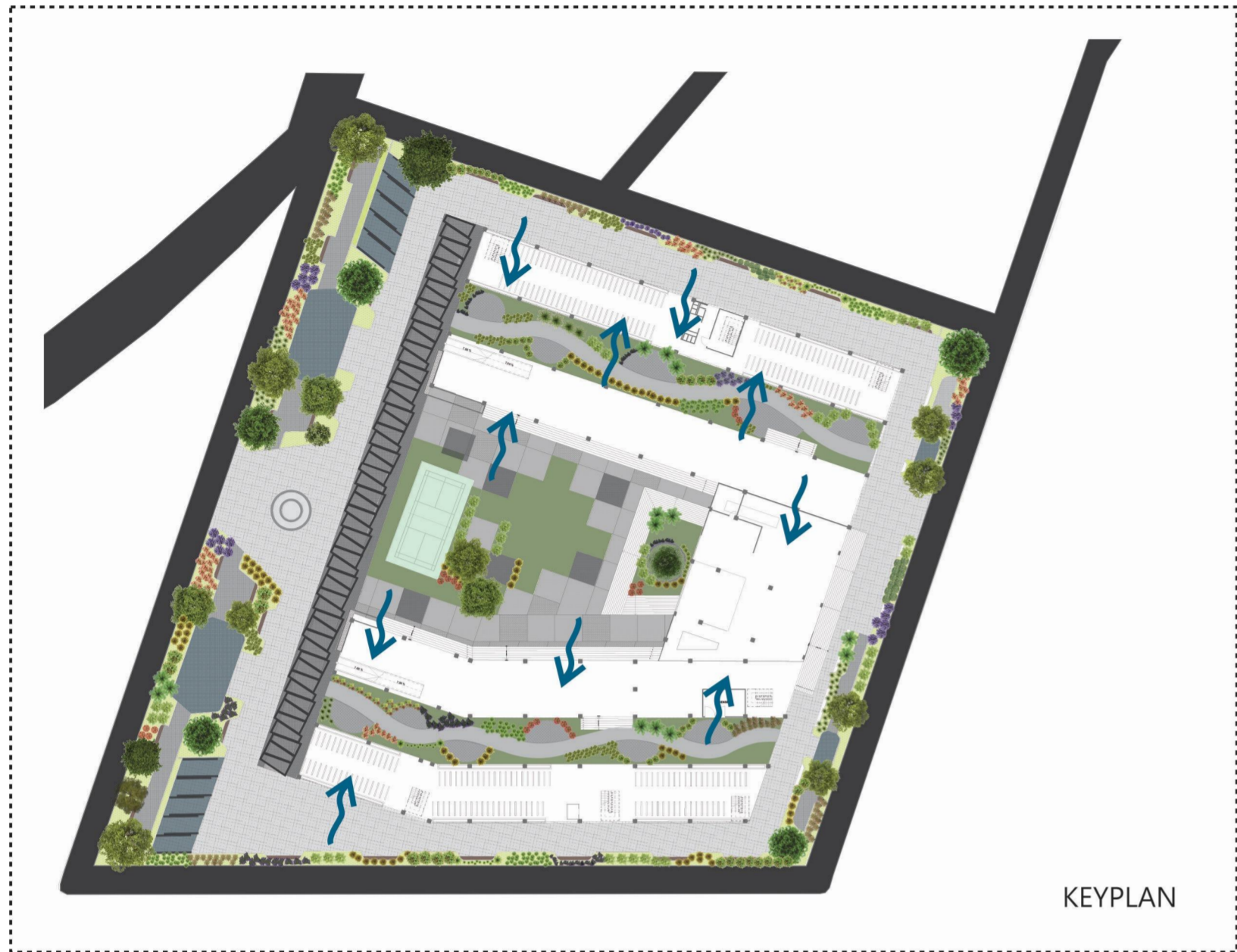
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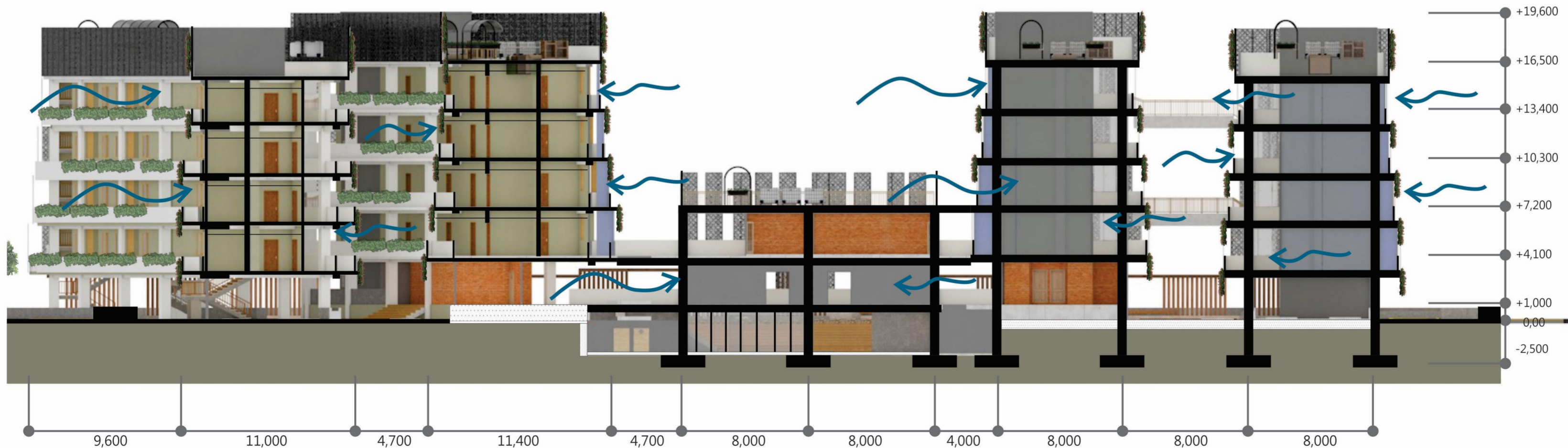
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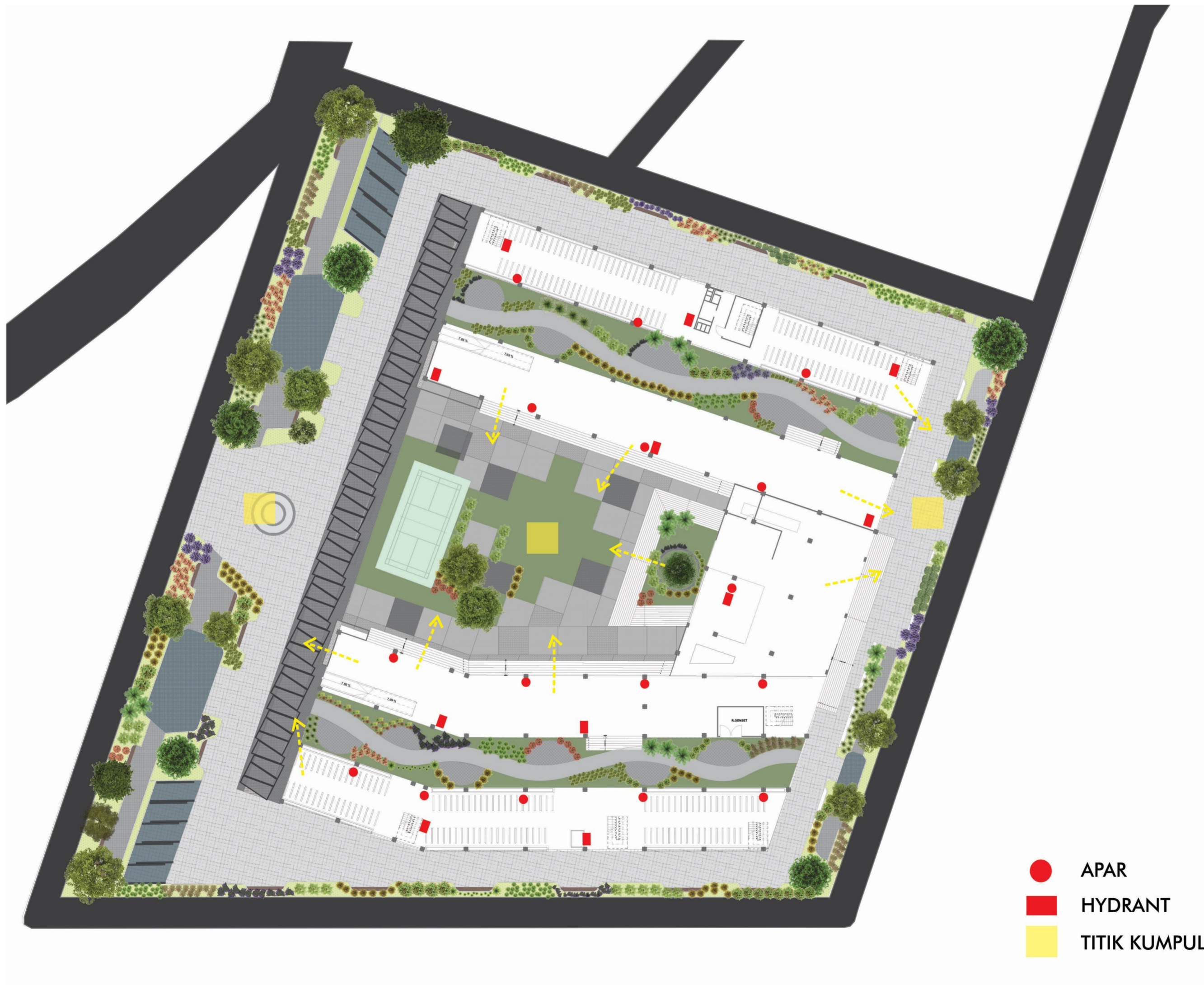
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KEYPLAN



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- APAR
- HYDRANT
- TITIK KUMPUL



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DRAWING TITLE

**SKEMA PENANGGULANGAN
KEBAKARAN DAN EVAKUASI
DARURAT**

DRAWING SCALE

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STUDIO

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Faculty of Civil Engineering

and Planning

ISLAMIC UNIVERSITY OF INDONESIA

PROJECT NAME

PROJECT YEAR

2017

PROJECT ADDRESS

Jalan Raya Timoho, Ngentak Sapen,

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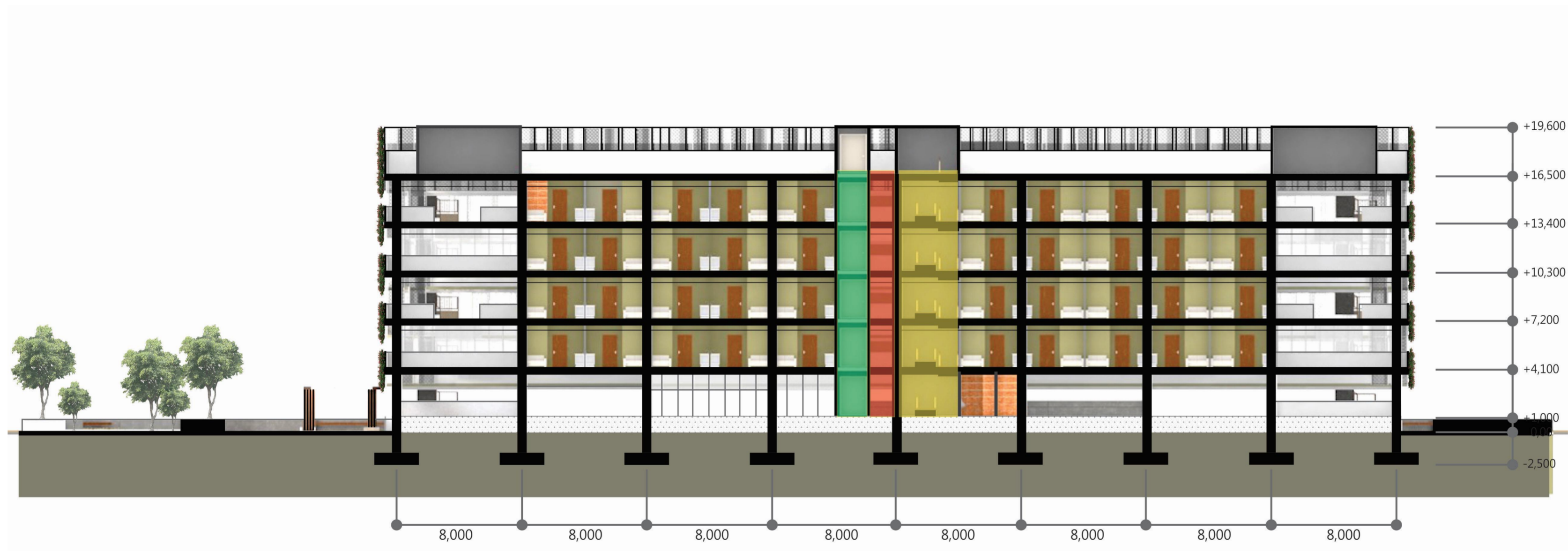
DRAWING TITLE

SKEMA TRANSPORTASI

VERTIKAL

DRAWING SCALE

NOTE



- TANGGA
- LIFT BARANG
- SHAFT SAMPAH

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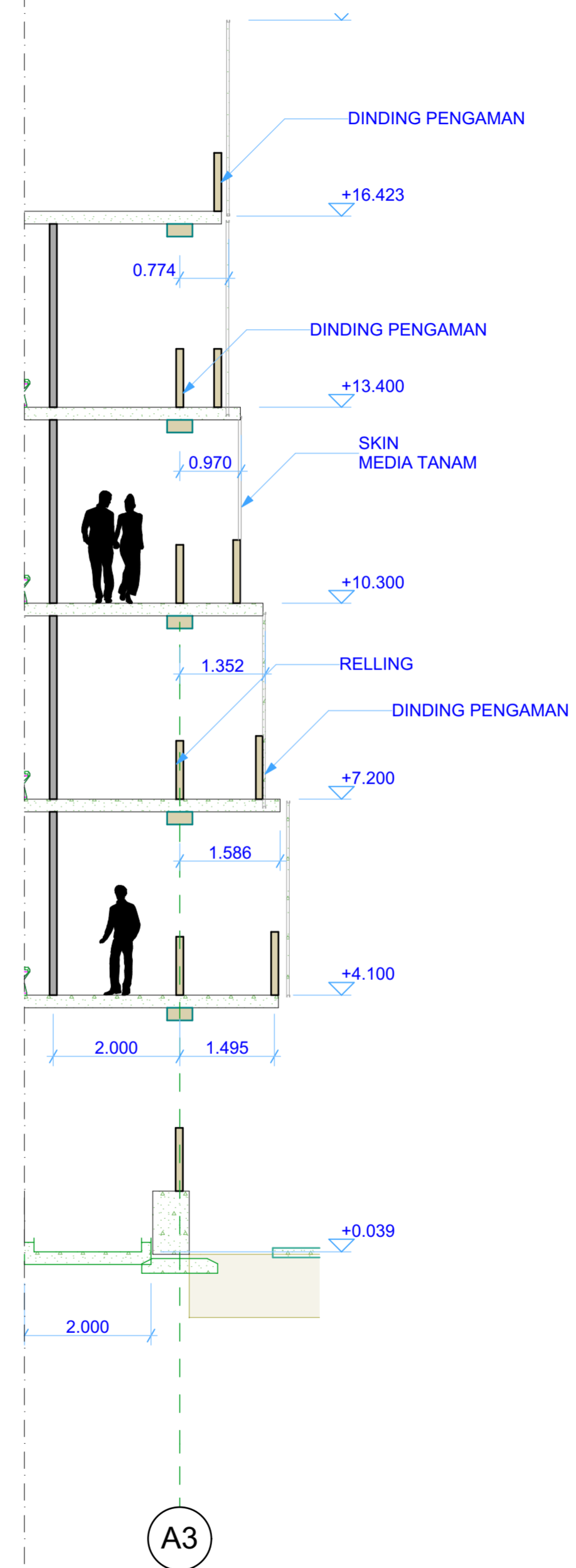
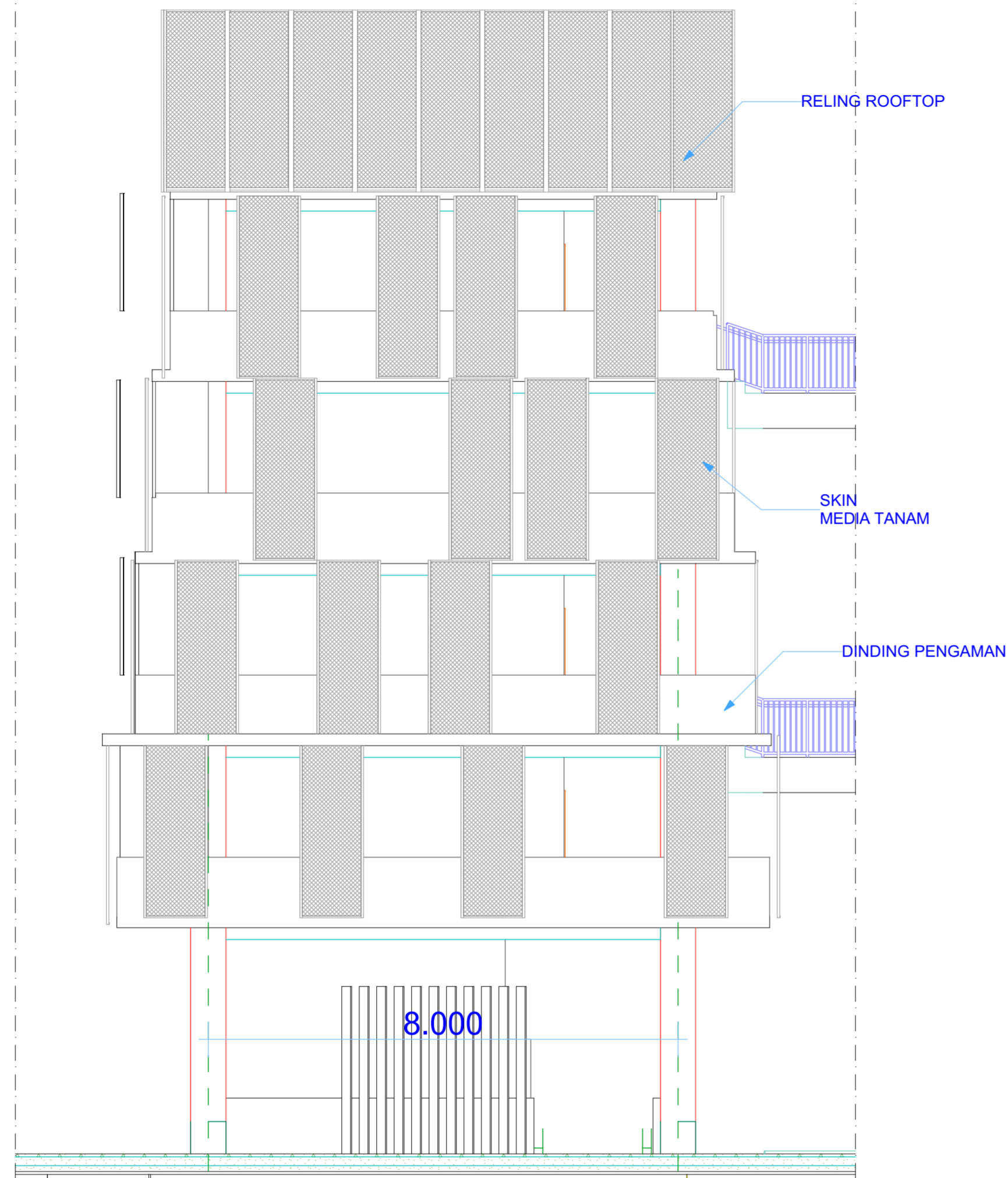
DRAWING TITLE

SKEMA BARRIER FREE DESIGN

DRAWING SCALE

NOTE

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DRAWING TITLE

DETAIL SELUBUNG BANGUNAN

DRAWING SCALE

1:75

NOTE

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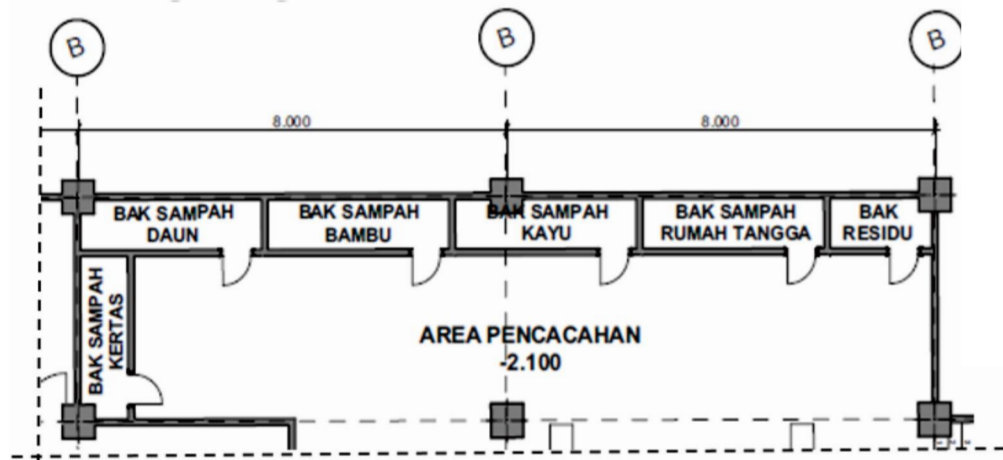
32

4. Konsep Ruang Bank Sampah |

Pengolahan Sampah Organik

Bak sampah yang terkait dengan material bersifat organik seperti sampah rumah tangga, kertas, kayu, bamboo dan dedaunan. Ditampung untuk dipisahkan dalam bak masing-masing berukuran 1 x 3,845 m.

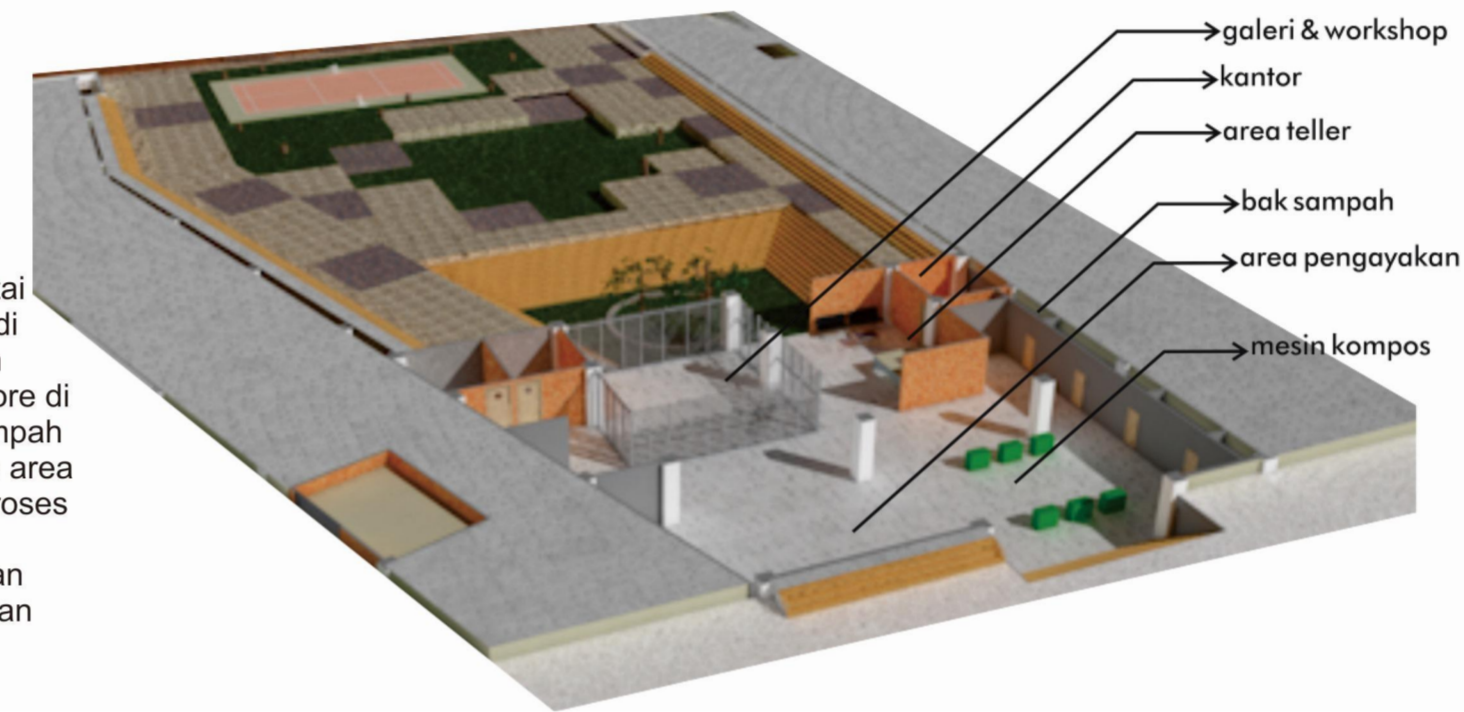
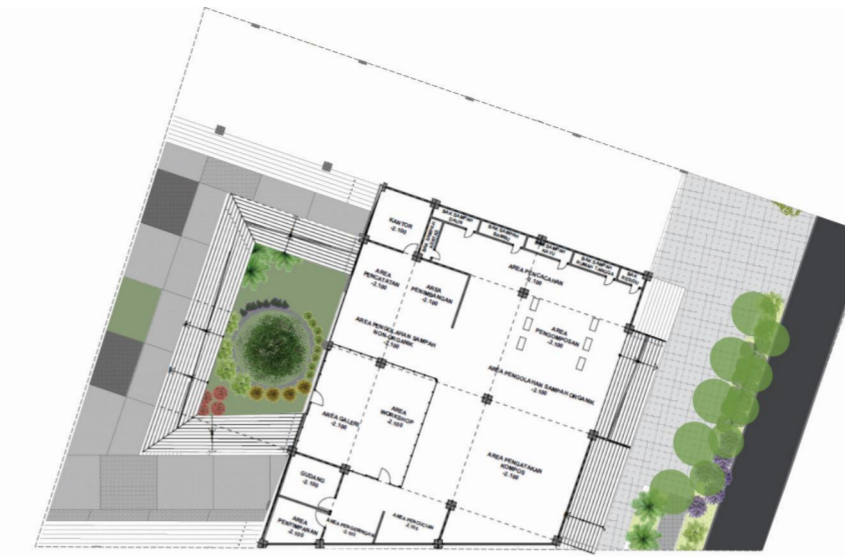
Kategori sampah organik (food waste) yaitu: sisa makanan, kertas, sisa ikan, duri ikan, kulit buah-buahan, potongan sayuran, kain bahan katun, dll. Bahan organik dapat dikategorikan yaitu semua material yang berasal dari makhluk hidup meliputi hewan, manusia dan tumbuhan.



4. Konsep Ruang Bank Sampah |

Pengolahan Sampah Anorganik

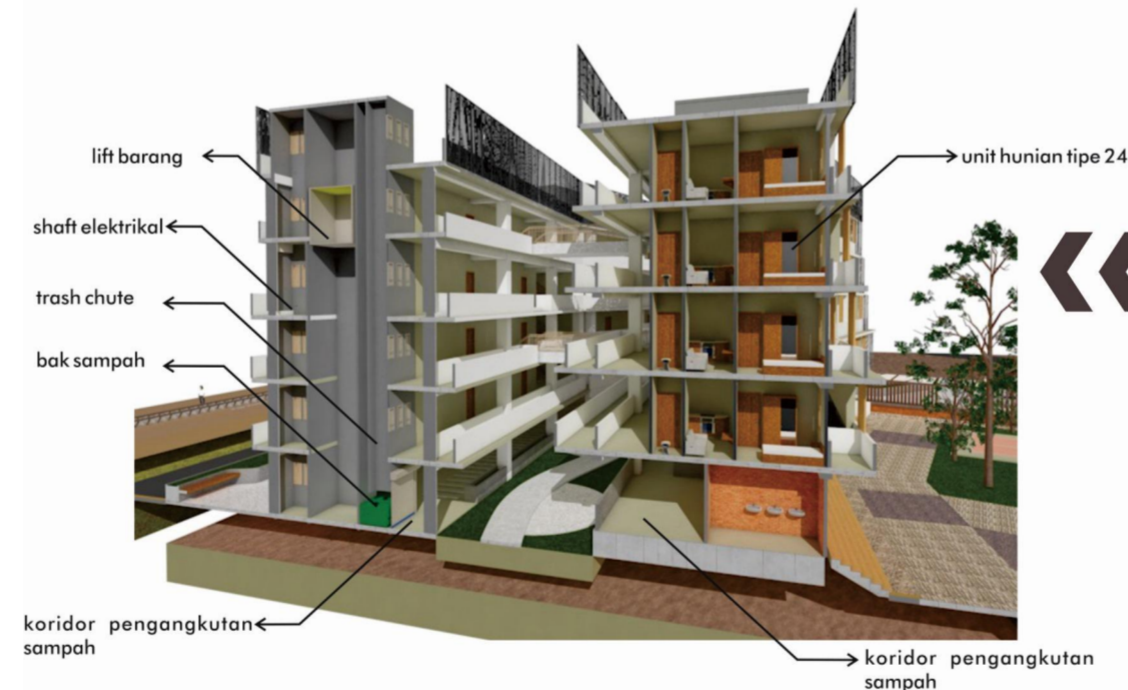
Ruang penyimpanan sampah yang bersifat anorganik seperti kaleng, botol, logam dan kaca di letakkan dekat dengan area pencucian dan pengeringan agar lebih efisien. Setelah dibersihkan sampah akan dipilah, kemudian sampah dibawa ke area workshop untuk didaur ulang kembali menjadi kerajinan tangan yang akan di display dan di perjual belikan di galeri.



Ruang penyimpanan sampah terletak di lantai semi basement dimana sampah yang telah di angkut oleh petugas sampah sesuai dengan jadwal penjemputan pada setiap pagi dan sore di kumpulkan untuk kemudian dipisahkan. Sampah organik yang dapat diolah akan di timbun ke area pencacahan dan area composting agar di proses untuk jadi kompos. Sedangkan sampah anorganik yang dapat di daur ulang kemudian dipilah dan dibersihkan untuk di buat kerajinan tangan dari bahan bekas.

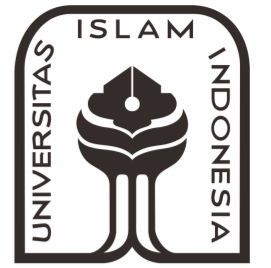
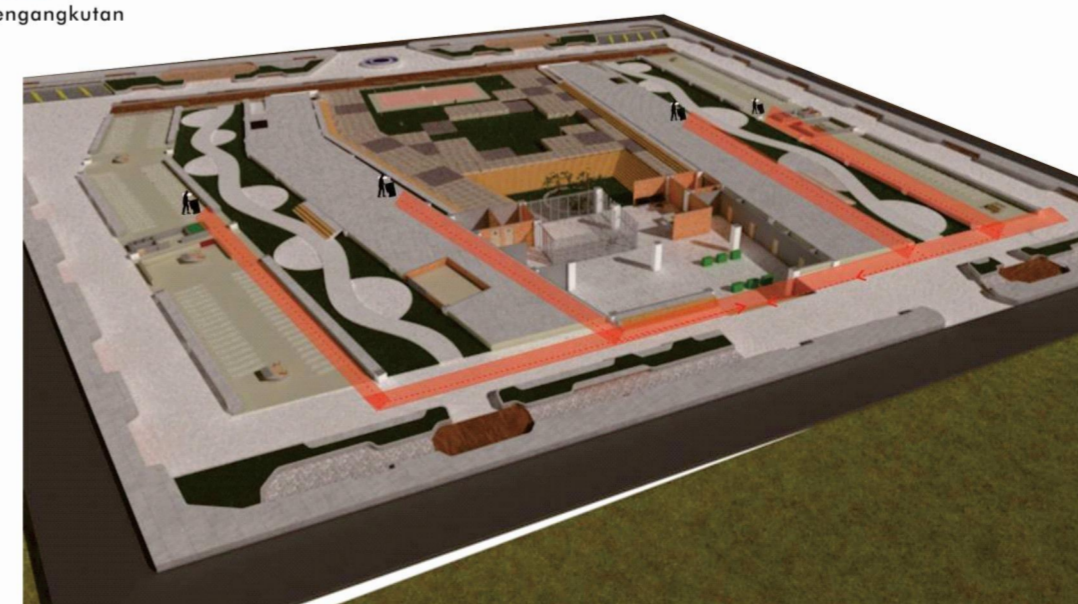
4. Konsep Ruang Bank Sampah |

Pengolahan Sampah Anorganik



POTONGAN TRASH CHUTE PADA BANGUNAN

ALUR PENGANGKUTAN SAMPAH



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DRAWING TITLE

DETAIL PENYELESAIAN INTERIOR

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3. Konsep Biofilik |

Penerapan pada Kompleks / ruang interaksi sosial

Terdapat ruang terbuka hijau, taman yang dapat dilihat secara langsung dari berbagai arah

Terdapat taman hidroponik digunakan untuk warga bercocok tanam yang hasilnya dapat digunakan sendiri maupun akan dijual.

Seluruh unit bangunan dalam kompleks bermassa ramping dan berjarak cukup lebar satu sama untuk pengoptimalan cahaya matahari

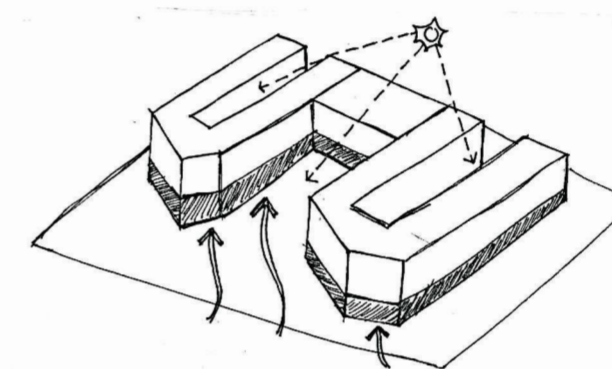


3. Konsep Biofilik

Konsep taman pada tengah bangunan

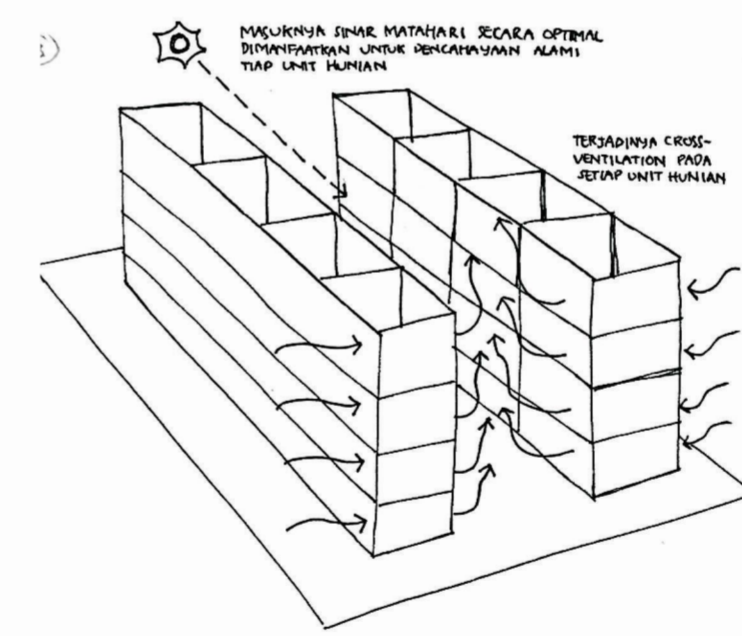
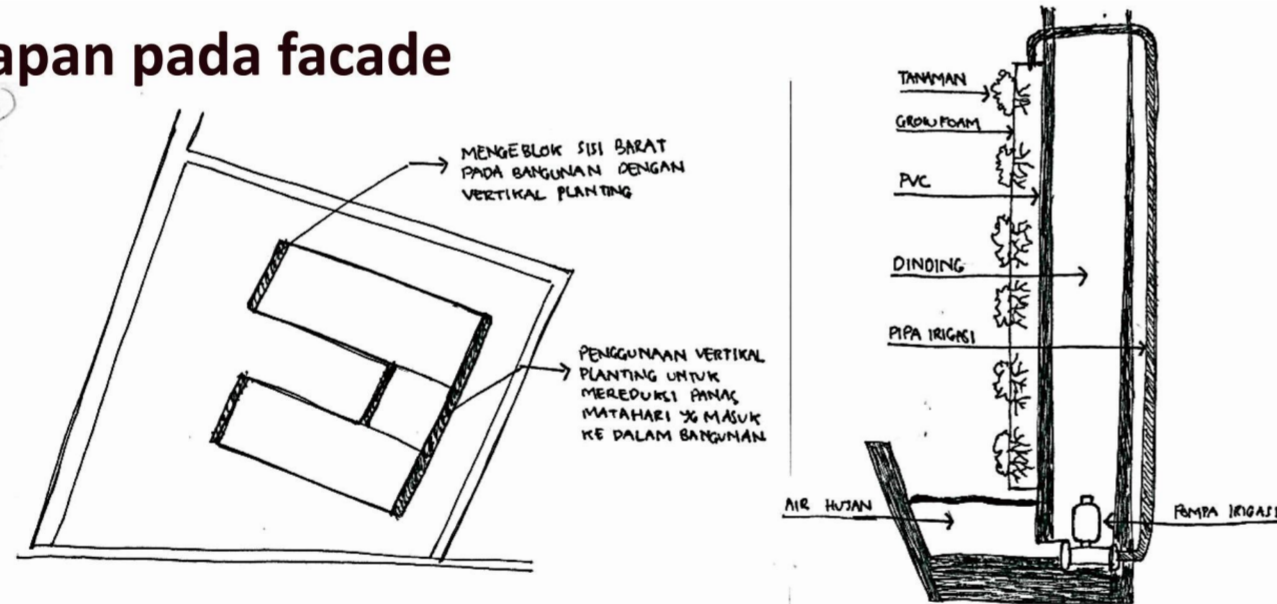


Pada lantai dasar bangunan rusun dirancang terbuka agar dapat memasukan cahaya dan angin ke dalam bangunan. View mengarah menuju taman yang berada di tengah bangunan.

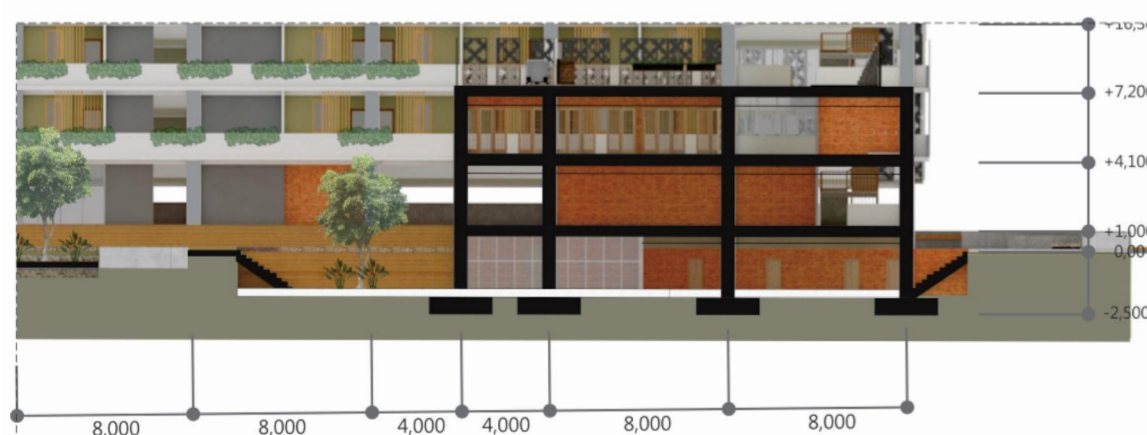


3. Konsep Biofilik | Penerapan pada facade

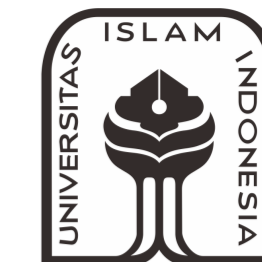
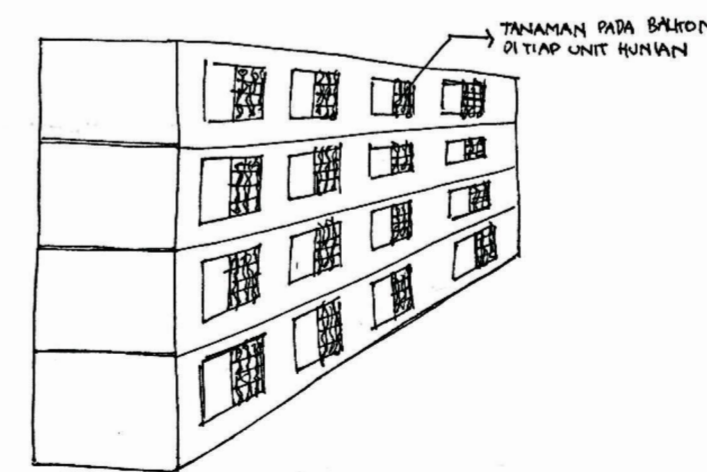
Mengeblok sisi bangunan sebelah barat dan timur dengan menggunakan selubung tanaman, agar dapat mereduksi panas matahari. Penerapan selubung fasad dengan pertimbangan dapat memasukkan cahaya matahari ke dalam bangunan secara optimal pada bangunan rusun.



| Penerapan pada Bank Sampah



Penggunaan tanaman bambu dan tanaman penetralisir bau merupakan solusi efektif sebagai peredam kebisingan akibat lalu lintas rel kereta api dan penetral bau.



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DETAIL ARSITEKTURAL KHUSUS

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PERSPEKTIF EKSTERIOR

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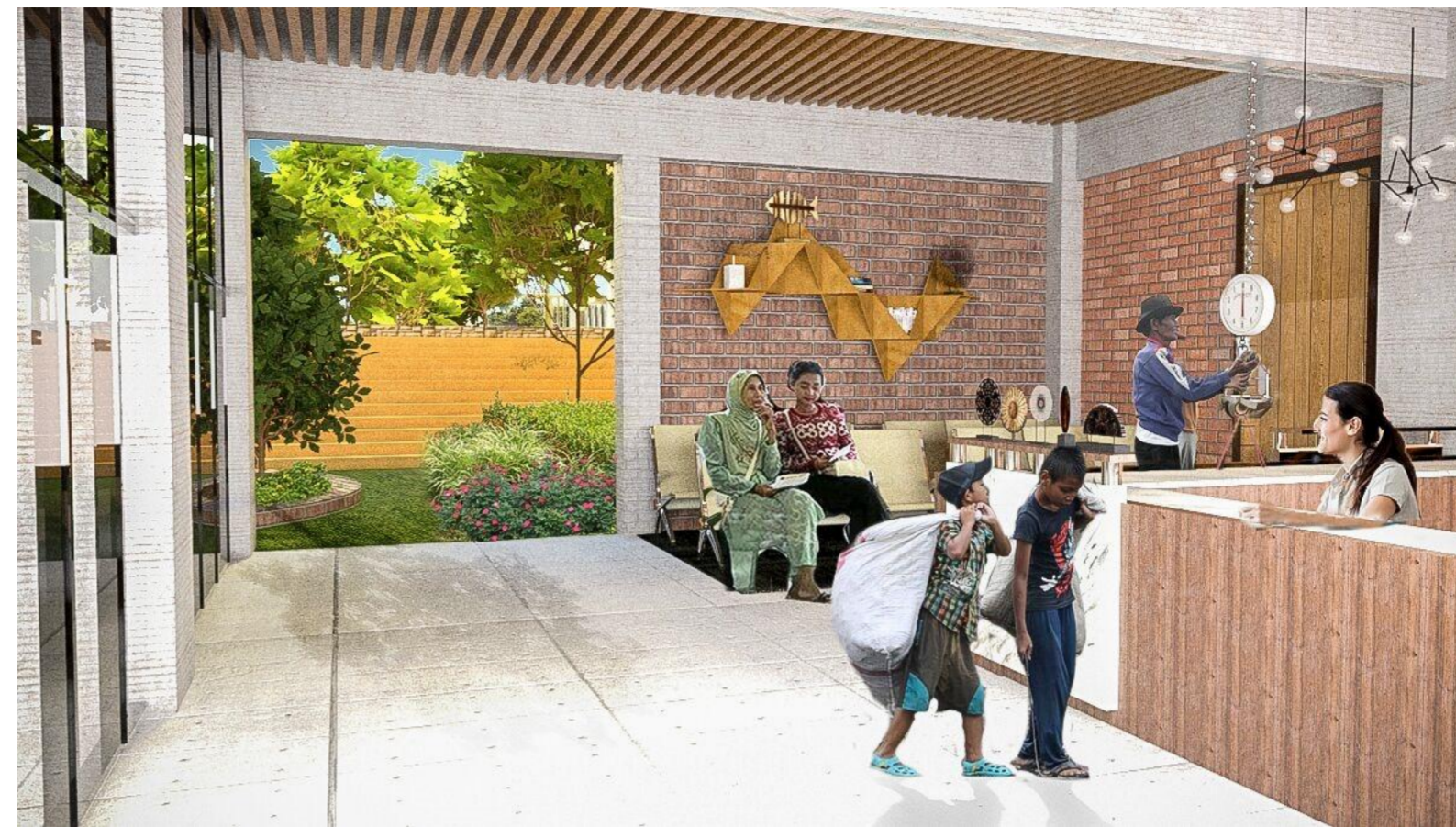
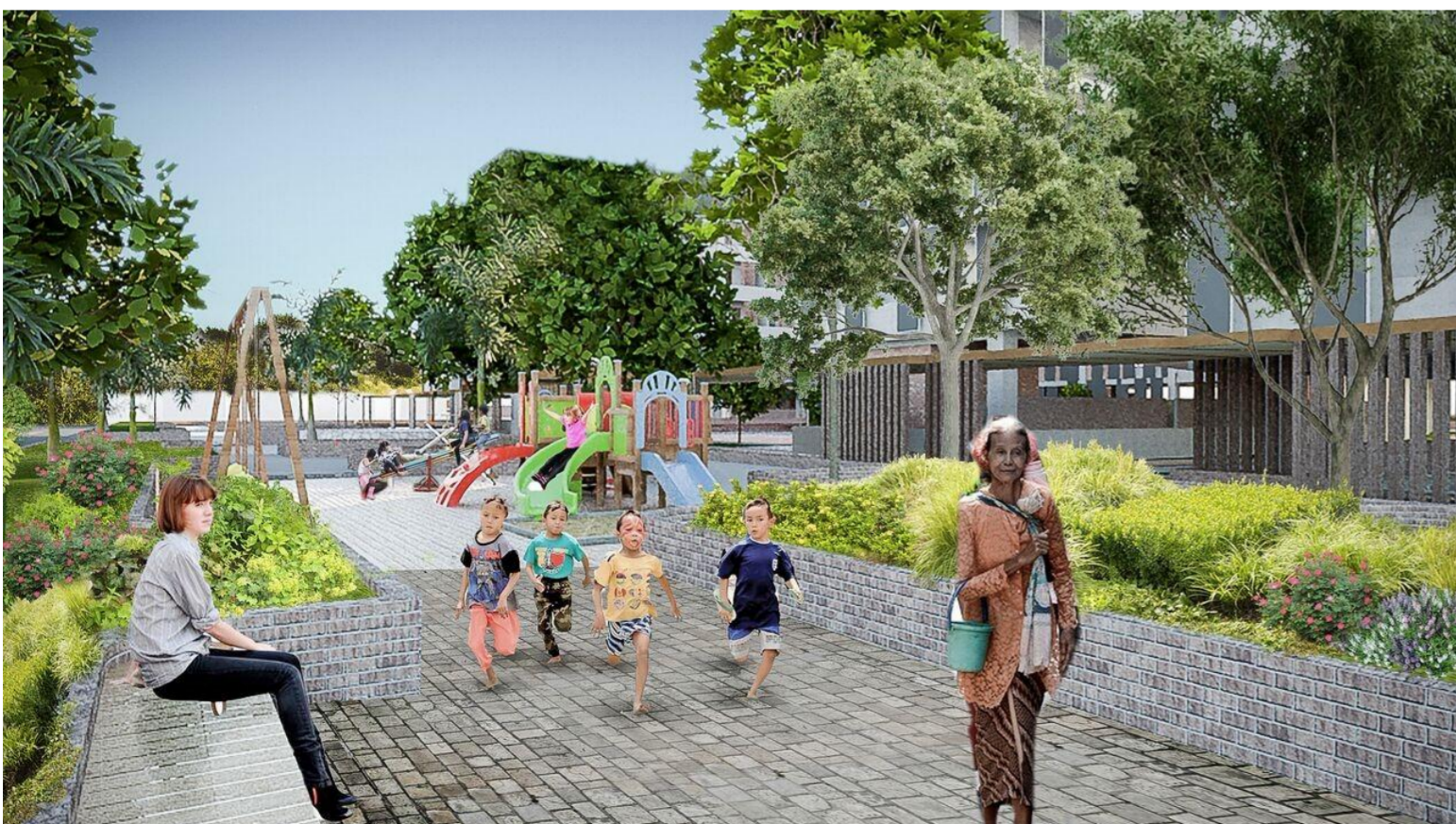
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