

## BAB 6

### KONSEP DAN DESAIN

#### 6.1 KONSEP DESAIN

Dalam merespons kondisi tapak yang berada di kawasan rawan banjir di tepi sungai, konsep desain bangunan *stilt house* atau **bangunan panggung** dipilih sebagai pendekatan utama. Desain ini mengedepankan nilai-nilai keberlanjutan, adaptasi terhadap risiko bencana, serta keselarasan dengan lingkungan sekitar yang merupakan kawasan permukiman berpenghasilan rendah. Bangunan panggung memberikan keuntungan strategis dalam mitigasi banjir, karena ruang di bawah bangunan dibiarkan terbuka atau difungsikan non-hunian, sehingga meminimalkan risiko kerusakan akibat genangan air. Selain itu, konsep ini memungkinkan sirkulasi udara dan pencahayaan alami yang lebih baik, serta menciptakan ruang terbuka komunal di bawah bangunan yang bisa digunakan secara fleksibel. Pemilihan desain ini tidak hanya mempertimbangkan aspek teknis dan fungsional, tetapi juga berusaha menyatu dengan karakter sosial-ekonomi masyarakat sekitar tanpa memberi kesan eksklusif atau mewah.



Gambar 6.1 Rumah panggung

#### 6.2 GUBAHAN MASSA



GAMBAR 6.2 Perspektif Massa Rumah Susun

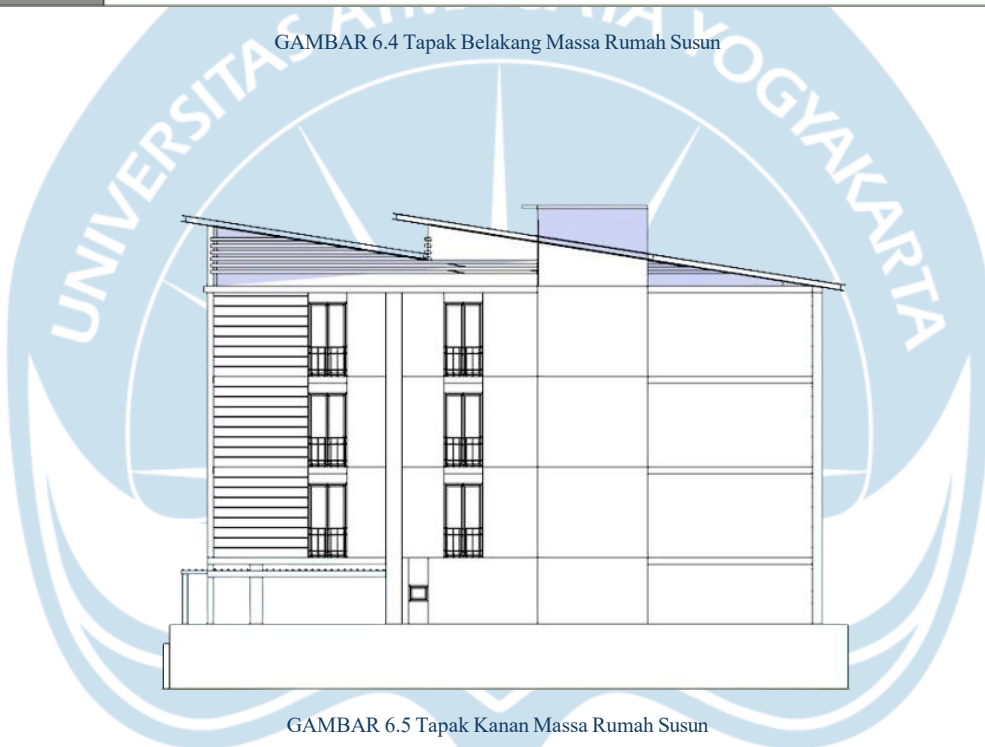
### 6.3 TAMPAK BANGUNAN



GAMBAR 6.3 Tapak Depan Massa Rumah Susun



GAMBAR 6.4 Tapak Belakang Massa Rumah Susun



GAMBAR 6.5 Tapak Kanan Massa Rumah Susun



GAMBAR 6.6 Tapak Kiri Massa Rumah Susun

## DAFTAR PUSTAKA

1. *PERATURAN DAERAH NOMOR 2 TAHUN 2010* Tentang Rencana Tata Ruang Wilayah Kota Yogyakarta
2. *The Study of urban lower course structuring model based on disaster mitigation. The case study of river estuary Ranoyapo lower course Amurang city South Minahasa Regency*
3. Turner, John F.C. (1972). *Freedom to Build: Dweller Control of the Housing Process*. Macmillan.
4. Ching, Francis D.K. (2007). *Architecture: Form, Space & Order*. Wiley.
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6. *Undang-Undang No. 24 Tahun 2007, Pasal 1 Ayat 6* Tentang penanggulangan bencana
7. *Design Guidelines for Flood Resilient Buildings* (FEMA, 2019).
8. A. Ardiansyah and Dyah Respati Suryo Sumunar (2020), Flood Vulnerability Mapping Using Geographic Information System (GIS) in Gajah Wong Sub Watershed Yogyakarta.
9. *Peraturan Pemerintah Nomor 16 Tahun 2021* tentang Peraturan Pelaksanaan UU Cipta Kerja (Klaster Perumahan)
10. *Peraturan Walikota Yogyakarta No 118 Tahun 2021*



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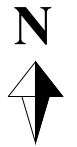
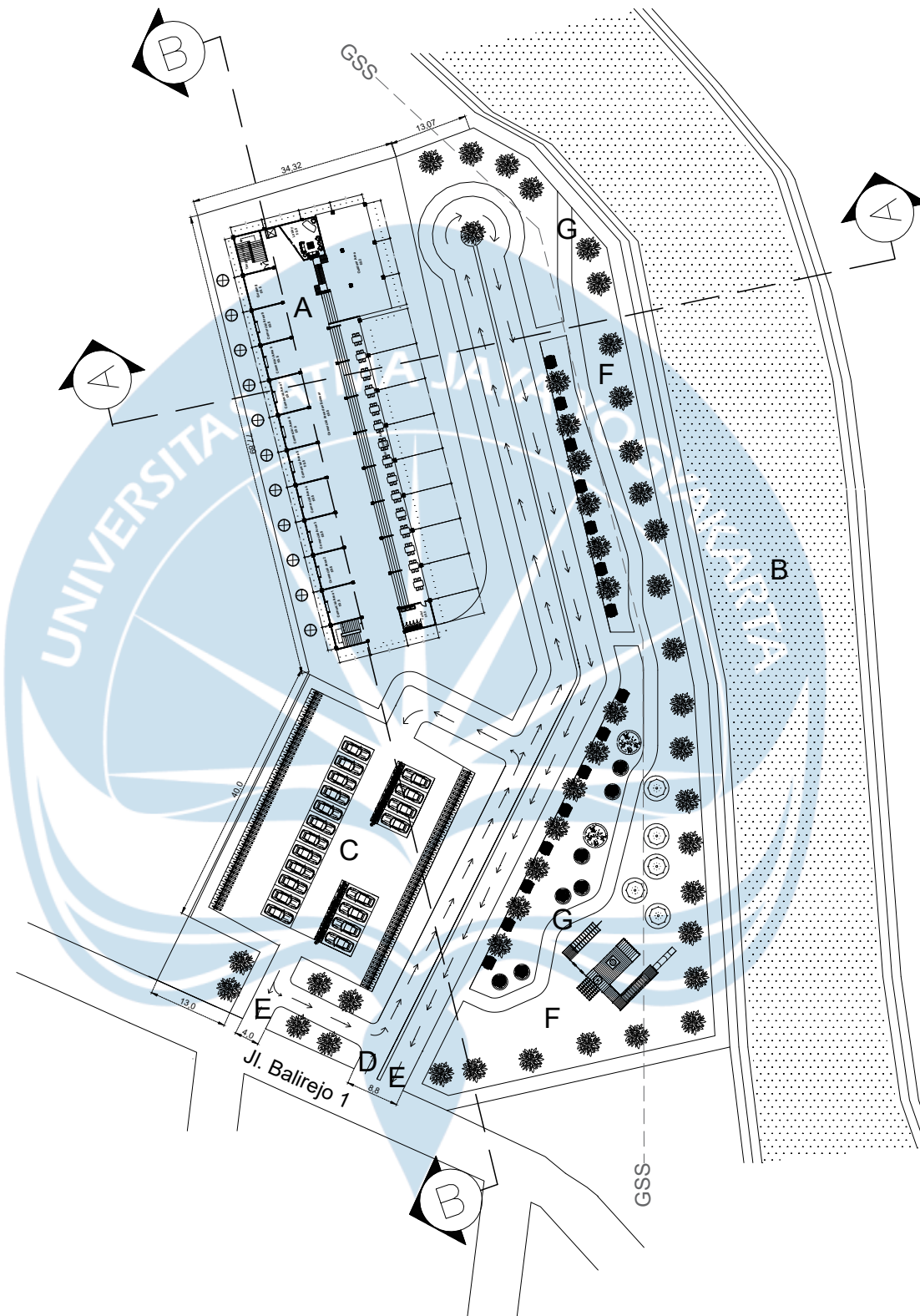
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# 16%

SIMILARITY INDEX

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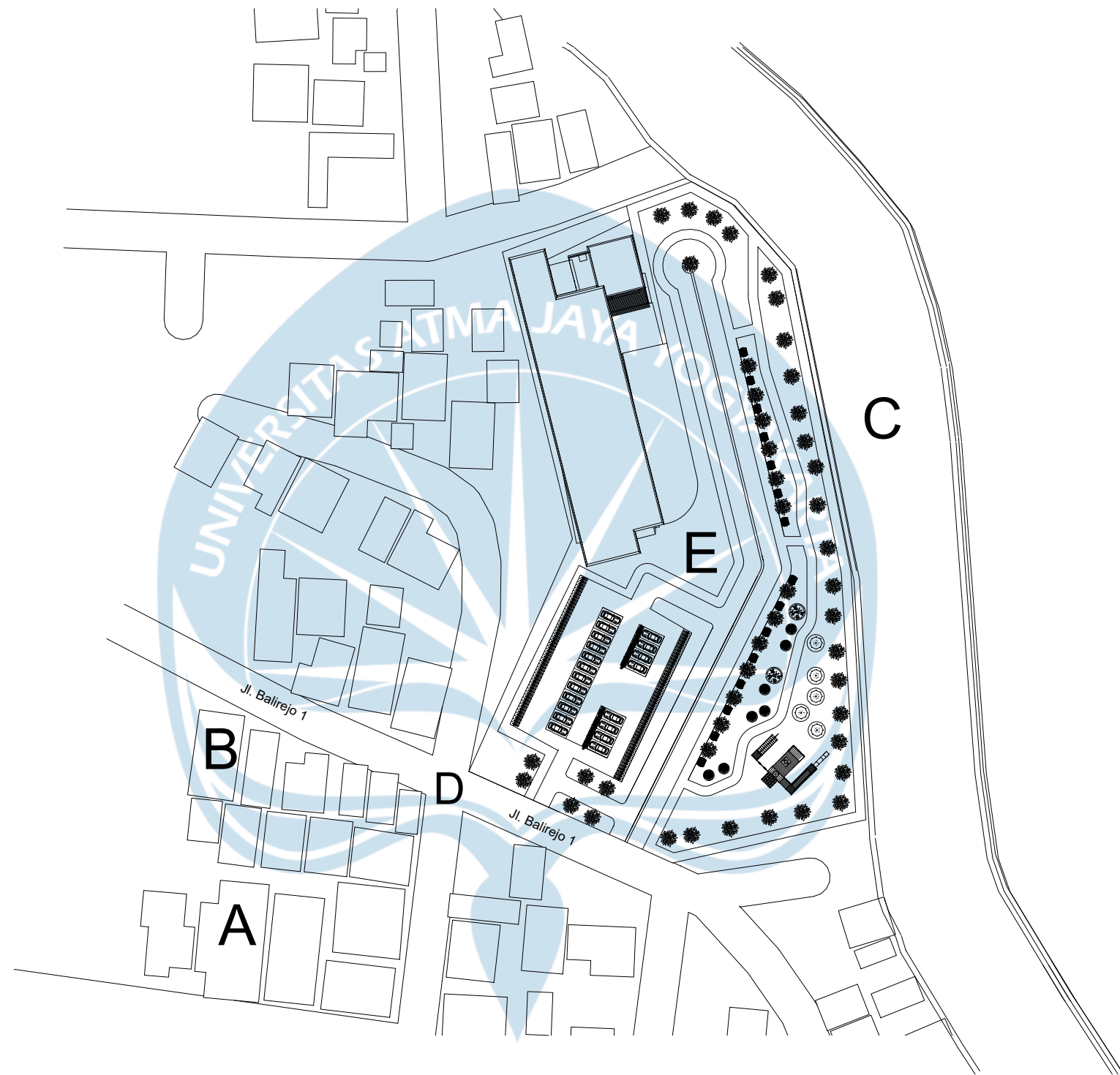
## LEGENDA

| LEGENDA |                |
|---------|----------------|
| A       | BANGUNAN UTAMA |
| B       | SUNGAI         |
| C       | PARKIRAN       |
| D       | AKSES MASUK    |
| E       | AKSES KELUAR   |
| F       | TAMAN          |
| G       | PEDESTRIAN     |

## SITEPLAN

SKALA 1 : 400

|                                  |                                                     |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
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|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Sungai Gajah Wong Yogyakarta      | Adrian Stevano Husadha<br>210118463     | 01. Siteplan                  | 1 :400         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2020/2021<br>ACADEMIC YEAR 2020/2021 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektur<br>Architecture Department |                                                                                                                      |                                   |                                         |                               |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |



SITUASI

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SKALA 1 : 600

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| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Sungai Gajah Wong Yogyakarta      | Adrian Stevano Husadha<br>210118463     | 01. Situasi                   | 1 :600         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |







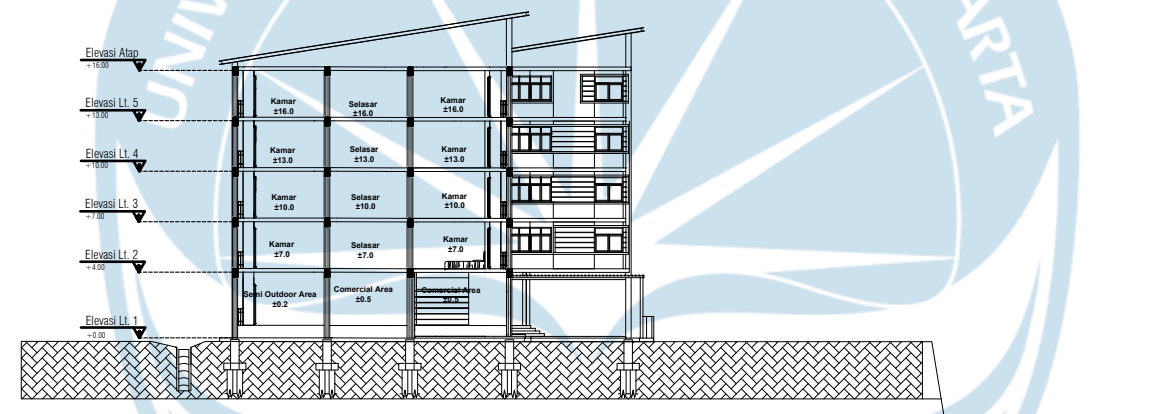












POTONGAN KESELURUHAN A - A

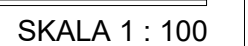
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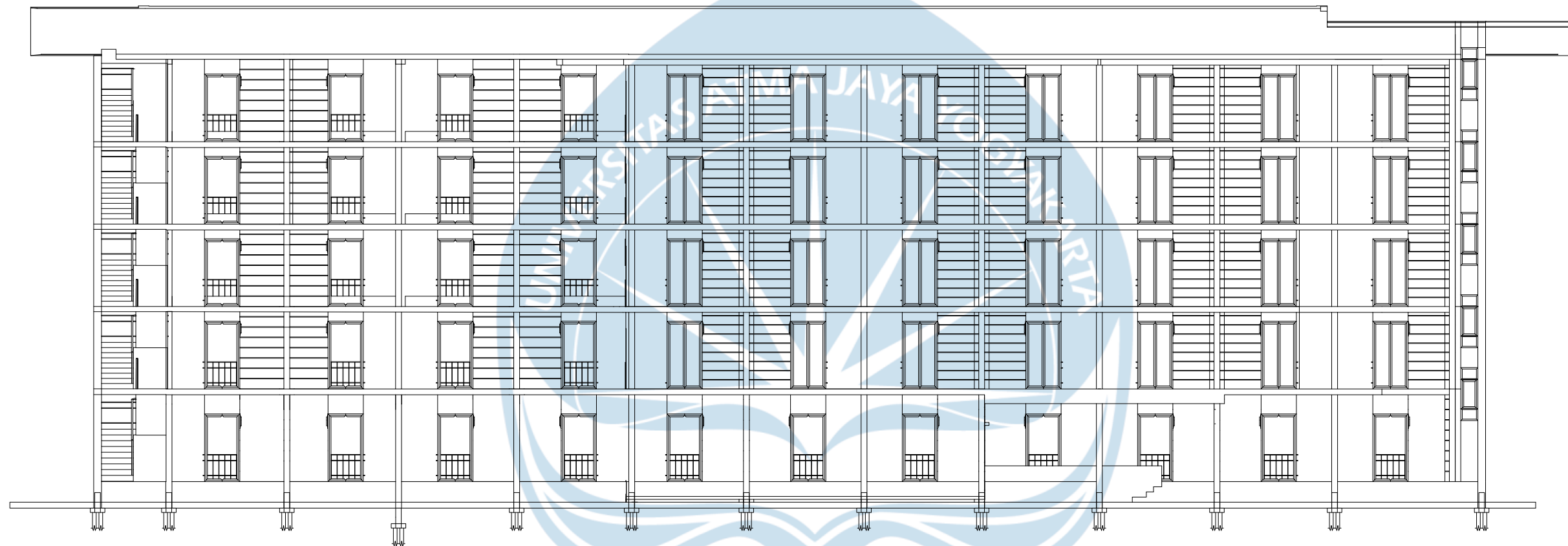
SKALA 1 : 400

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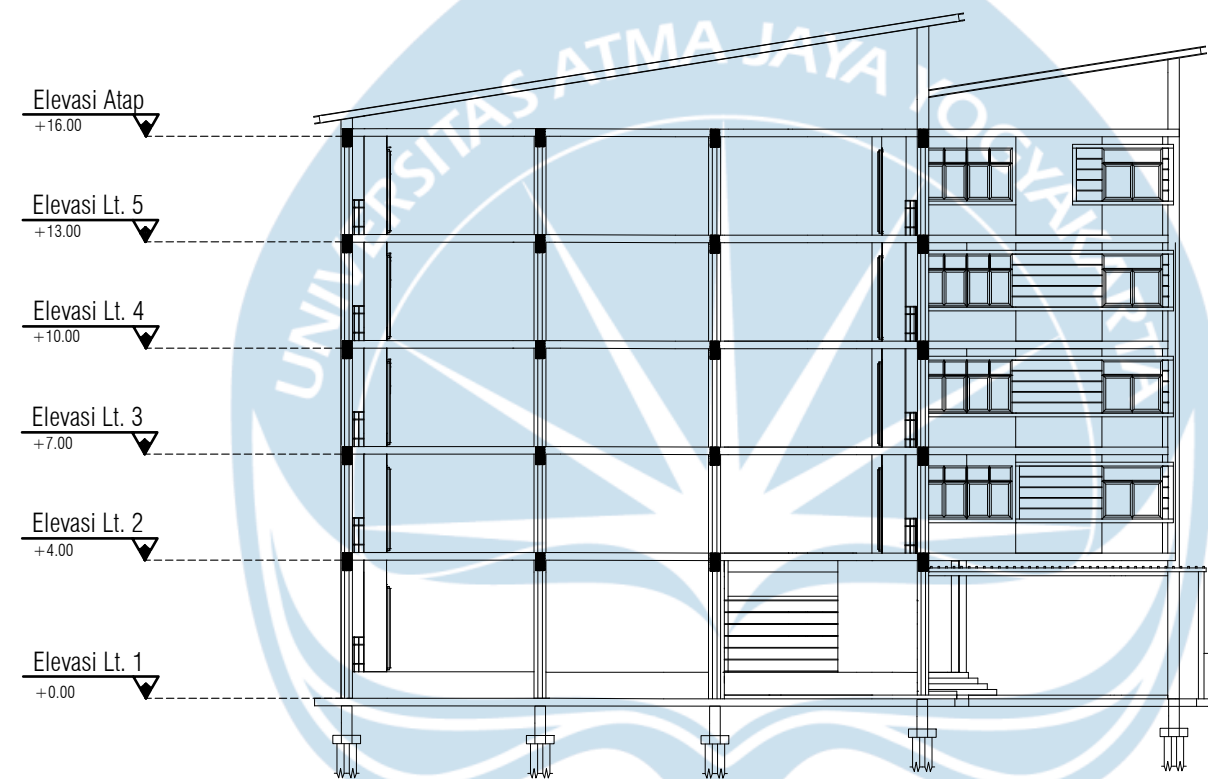
Universitas Atma Jaya Yogyakarta



POTONGAN B - B

SKALA 1 : 100

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|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                                                             | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong        | Adrian Stevano Husadha<br>210118463     | 01. Potongan B - B            | 1 :100         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026                                              |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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POTONGAN C - C

SKALA 1 : 100

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|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan Rumah Susun Dengan Pendekatan Mitigasi Di Bantaran Sungai Gajah Wong Yogyakarta | Bantaran Sungai Gajah Wong        | Adrian Stevano Husadha<br>210118463     | 01. Potongan C - C            | 1 :100         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                             |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026                                              |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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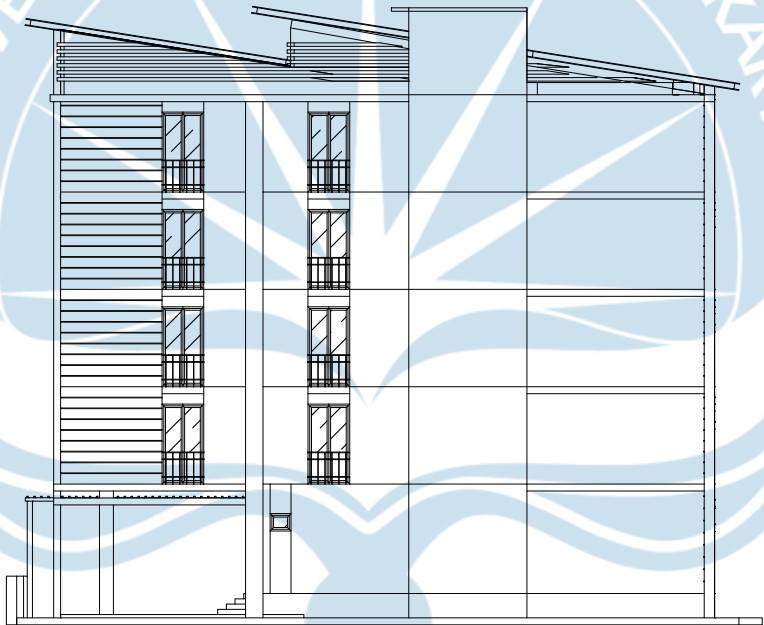




TAMPAK KIRI

SKALA 1 : 100

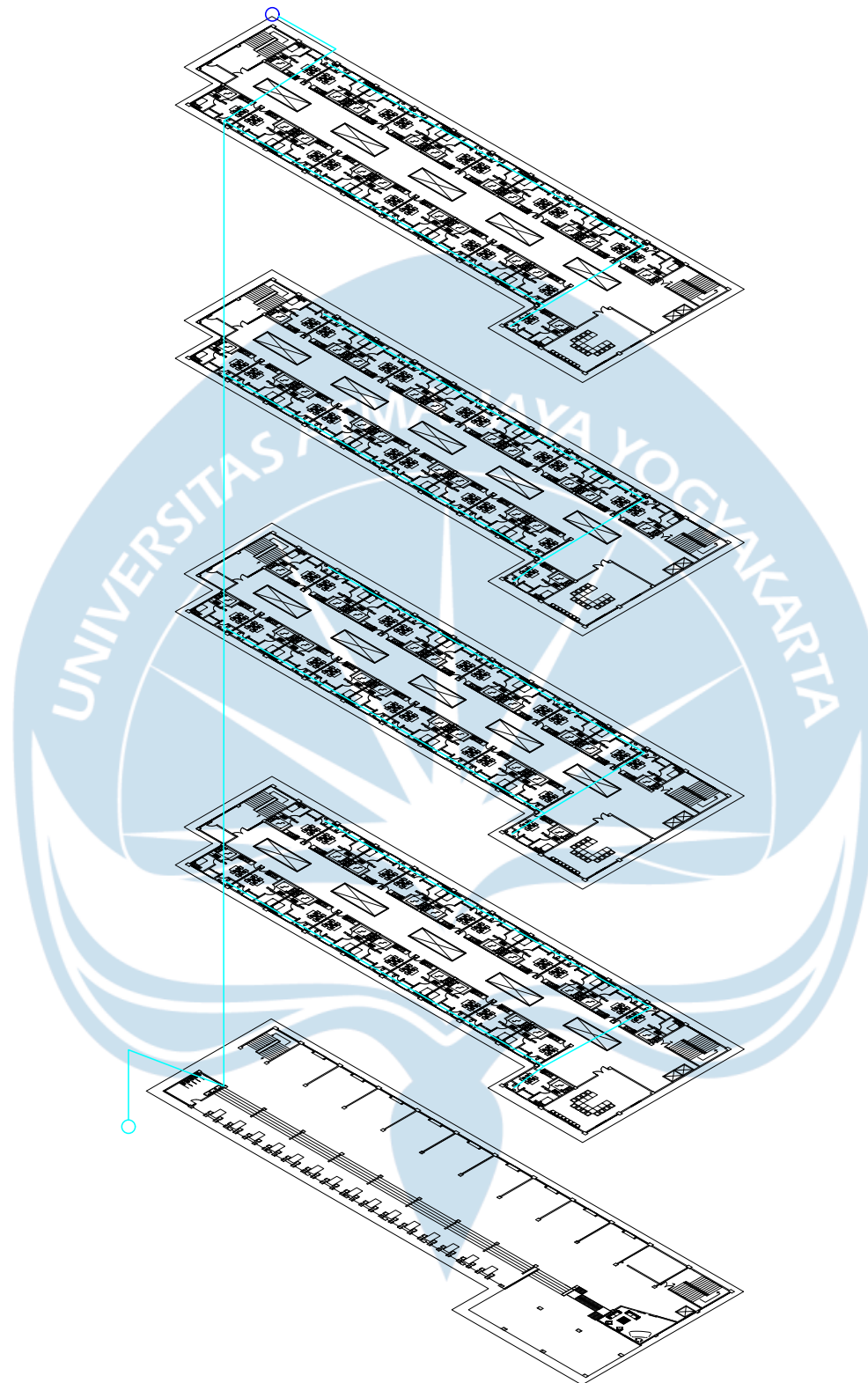
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|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong        | Adrian Stevano Husadha<br>210118463     | 1. Tampak Kiri                | 1 :100         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
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SKALA 1 : 100

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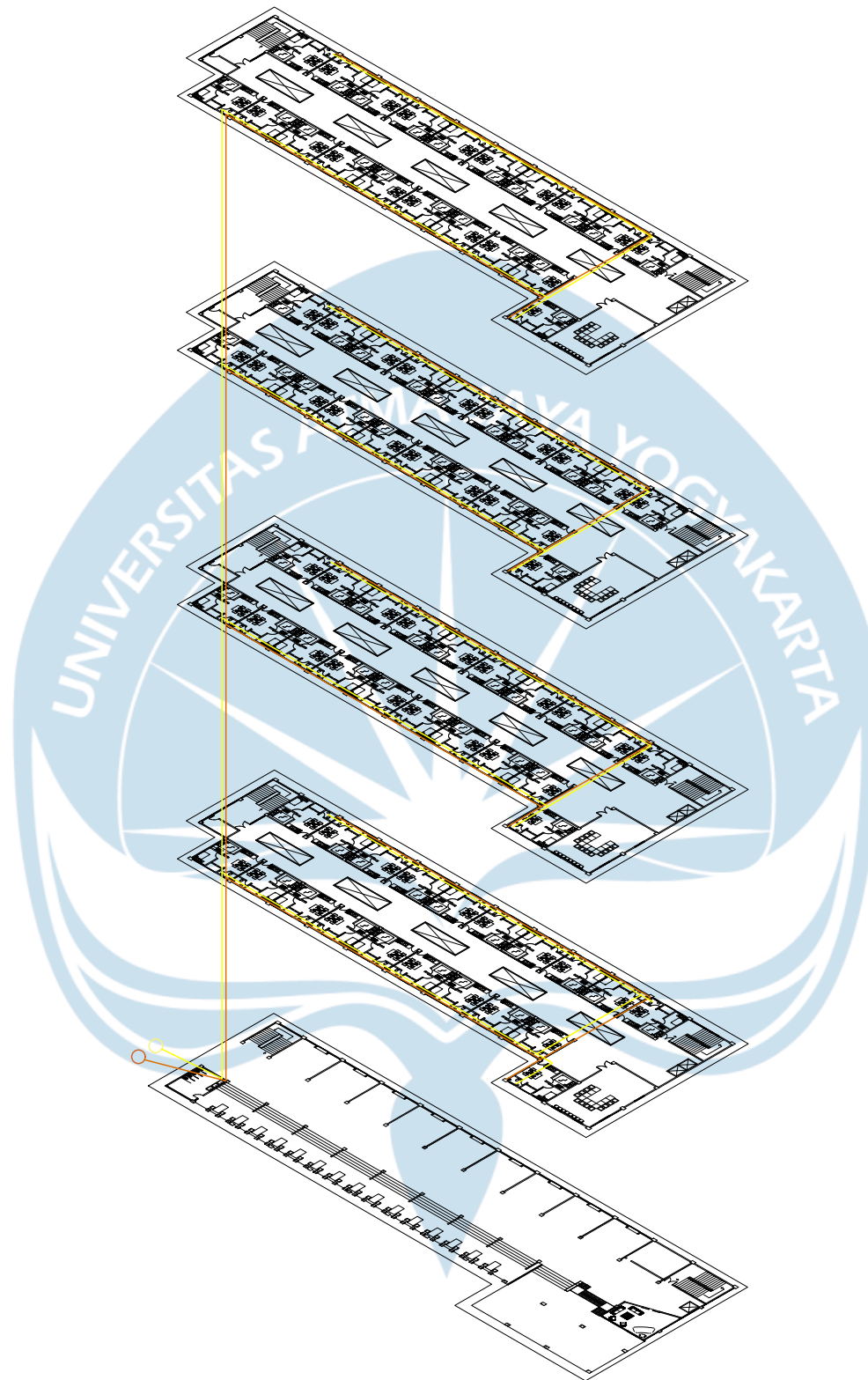
| Lambang                                                                             | Penjelasan          |
|-------------------------------------------------------------------------------------|---------------------|
|  | Tangki Under Ground |
|  | Tangki Atas         |
|  | Pipa Air Bersih     |

## AKSONOMETRI RENCANA UTILITAS AIR BERSIH

SKALA 1 :-

|                                  |                                                     |                                                                                                                      |                                   |                                         |                                                |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|------------------------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title                  | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta |                                   | Adrian Stevano Husadha<br>210118463     | 01. Aksonometri Rencana<br>Utilitas Air Bersih |                |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                                                |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektur<br>Architecture Department |                                                                                                                      |                                   |                                         |                                                |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                                                |                |                    |                                |                    |            |



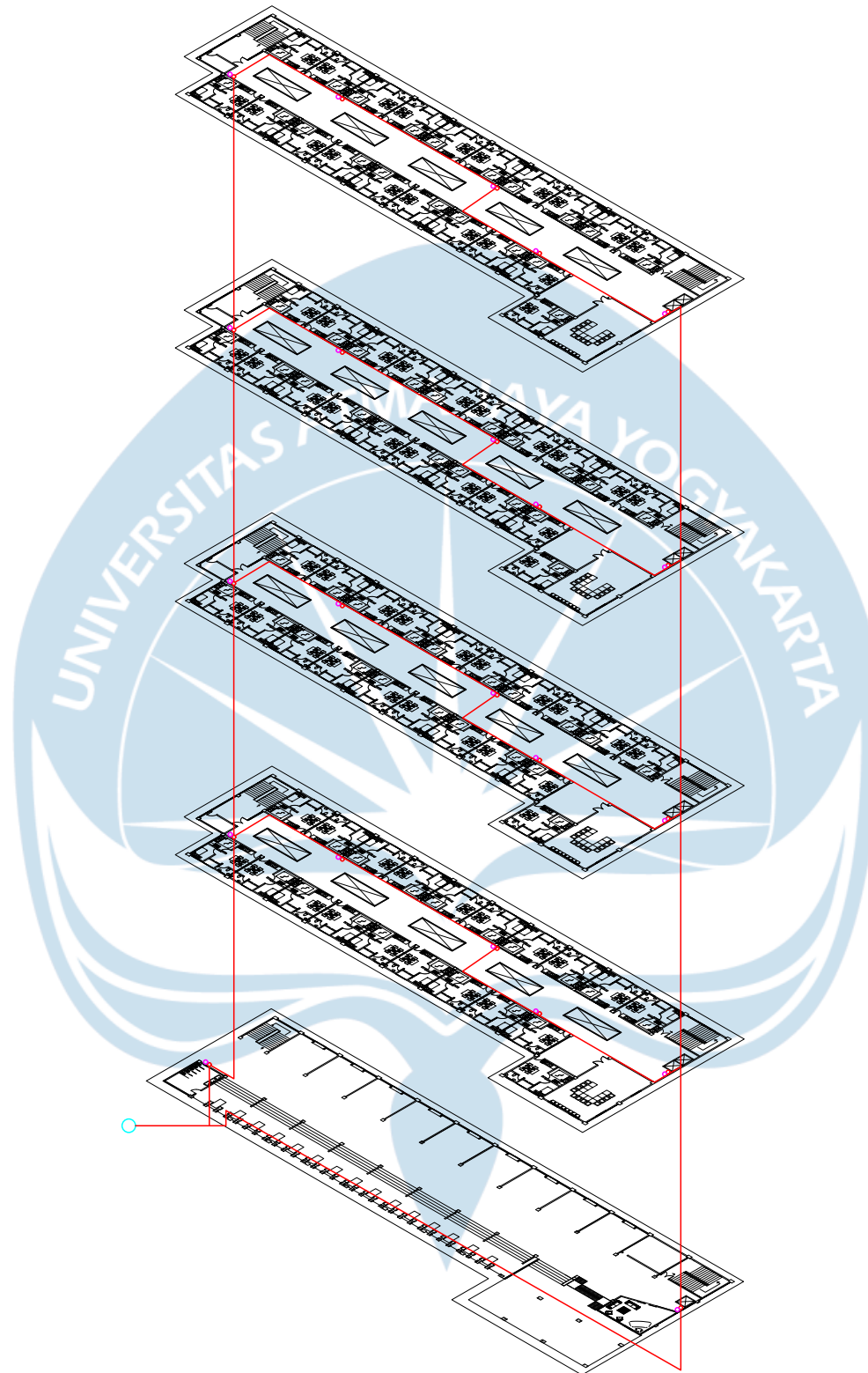


| Lambang                                                                             | Penjelasan     |
|-------------------------------------------------------------------------------------|----------------|
|  | BioFilter      |
|  | Septictank     |
|  | Pipa Air Kotor |
|  | Pipa Kotoran   |

## AKSONOMETRI RENCANA UTILITAS AIR KOTOR

SKALA 1 :-

|                                  |                                                     |                                                                                                                      |                                   |                                         |                                               |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title                 | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Sungai Gajah Wong Yogyakarta      | Adrian Stevano Husadha<br>210118463     | 01. Aksonometri Rencana<br>Utilitas Air Kotor |                |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektur<br>Architecture Department |                                                                                                                      |                                   |                                         |                                               |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                                               |                |                    |                                |                    |            |



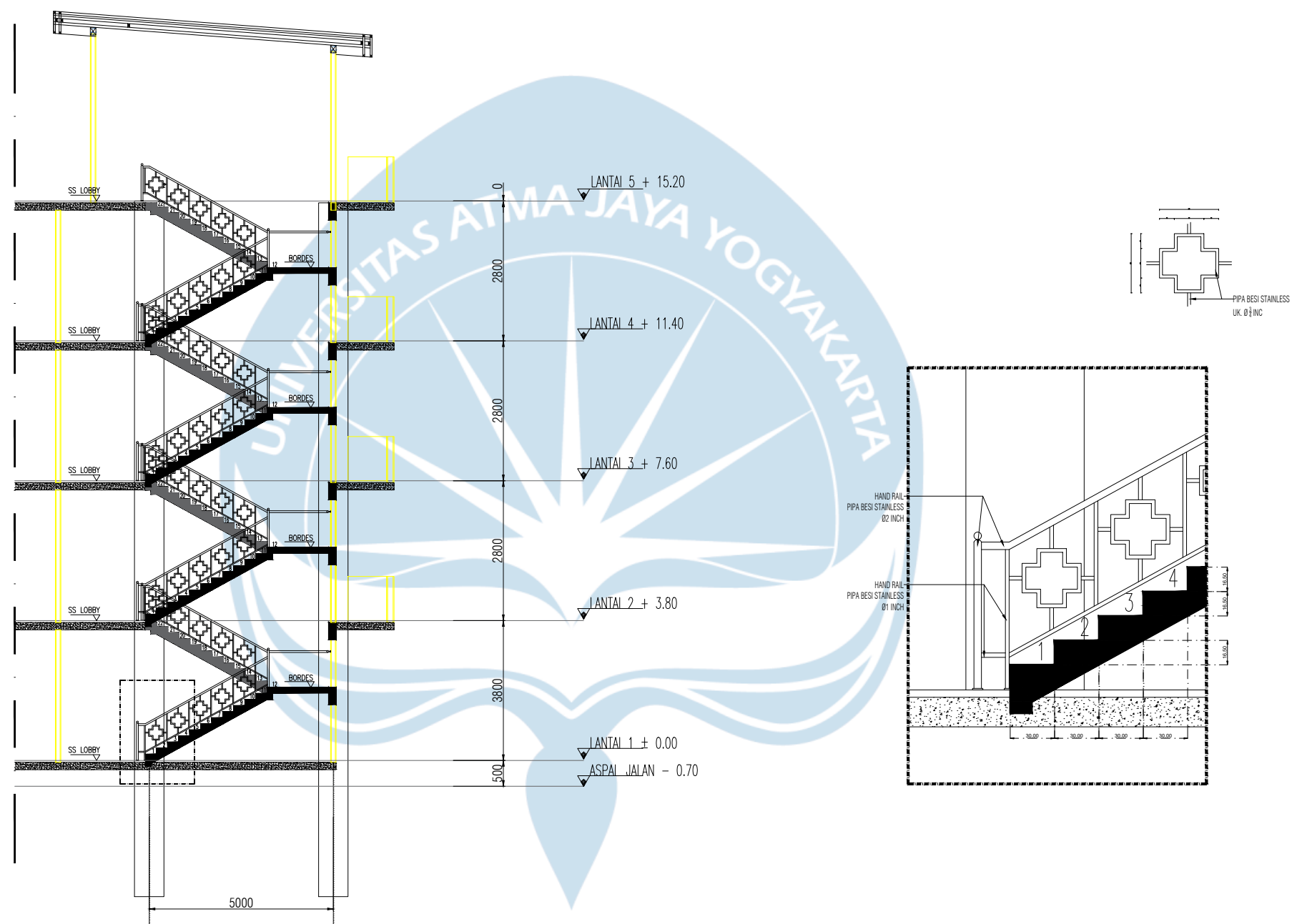
| Lambang                                                                             | Penjelasan              |
|-------------------------------------------------------------------------------------|-------------------------|
|  | Hydrant Gedung          |
|  | Pipa Hydrant            |
|  | Alat Pmeadam Api Ringan |
|  | Torent Air Underground  |

AKSONOMETRI TANGGAP BENCANA

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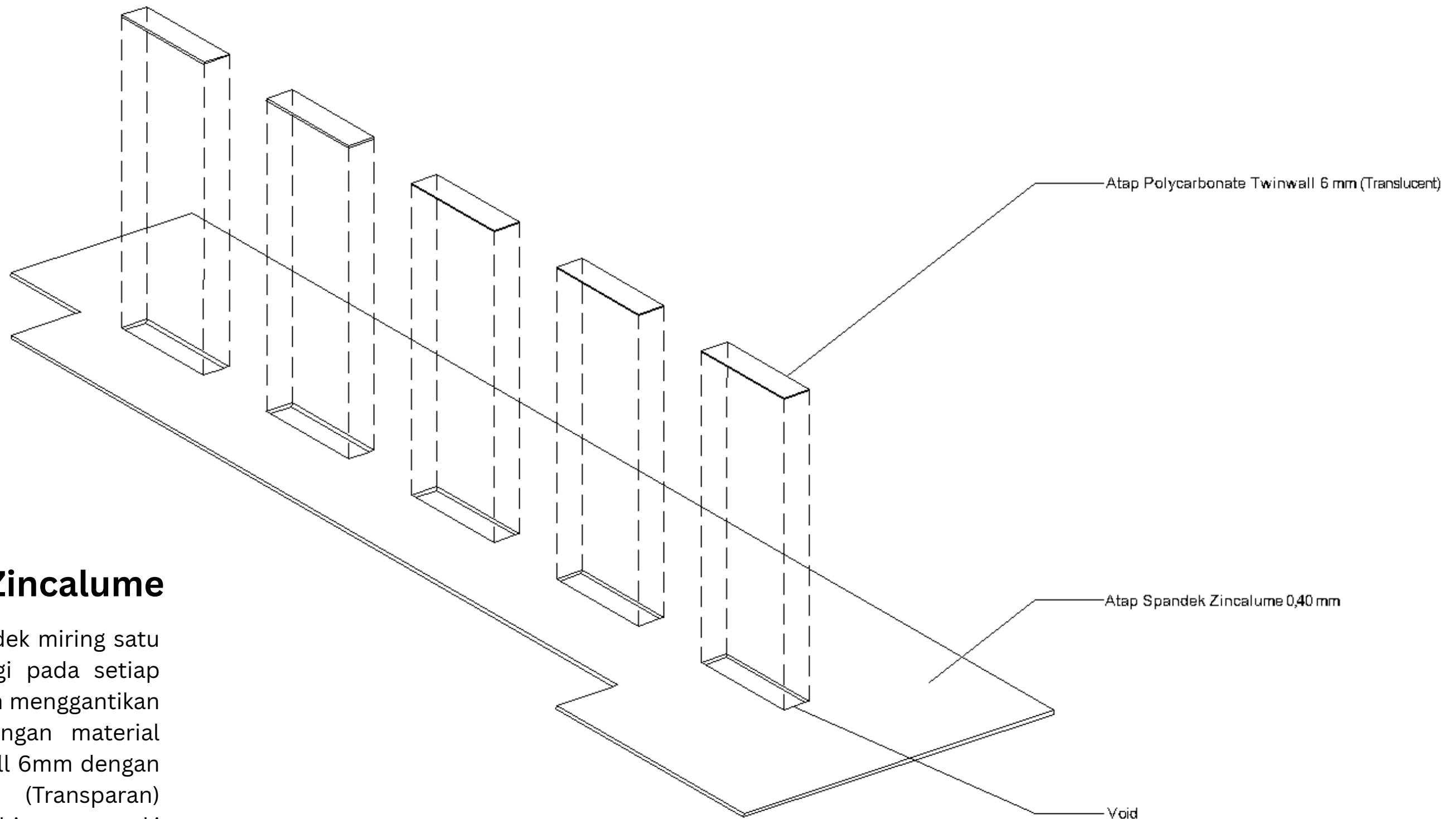
SKALA 1 : -

|                                  |                                                     |                                                                                                                      |                                   |                                         |                                    |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|------------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title      | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I                | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Sungai Gajah Wong Yogyakarta      | Adrian Stevano Husadha<br>210118463     | 01. Aksonometri Tanggap<br>Bencana |                |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                                    |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektur<br>Architecture Department |                                                                                                                      |                                   |                                         |                                    |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                                    |                |                    |                                |                    |            |



DETAIL AKSES MASUK  
SKALA 1 : 100

|                                  |                                                                                                 |                                                                                                             |                                       |                                         |                               |                |                    |                                |            |  |
|----------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|-------------------------------|----------------|--------------------|--------------------------------|------------|--|
| Universitas Atma Jaya Yogyakarta | Projek Tugas Akhir<br>Final Project                                                             | Judul Proyek<br>Project Title                                                                               | Lokasi Proyek<br>Project Location     | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |            |  |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I<br><br>TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 | Perencanaan dan Perancangan Rumah Susun Dengan Pendekatan Mitigasi Di Bantaran Sungai Gajah Wong Yogyakarta | Bantaran Sungai Gajah Wong Yogyakarta | Adrian Stevano Husadha<br>210118463     | 01. Detail Tangga             | 1 :100         |                    |                                |            |  |
|                                  | Kode Gambar<br>Drawing Code                                                                     |                                                                                                             |                                       |                                         |                               |                |                    | No. Lbr<br>Pg. No.             | Dari<br>Of |  |
|                                  | XX1                                                                                             |                                                                                                             |                                       |                                         |                               |                |                    | XX                             | XX         |  |
|                                  |                                                                                                 |                                                                                                             |                                       |                                         |                               |                |                    |                                |            |  |



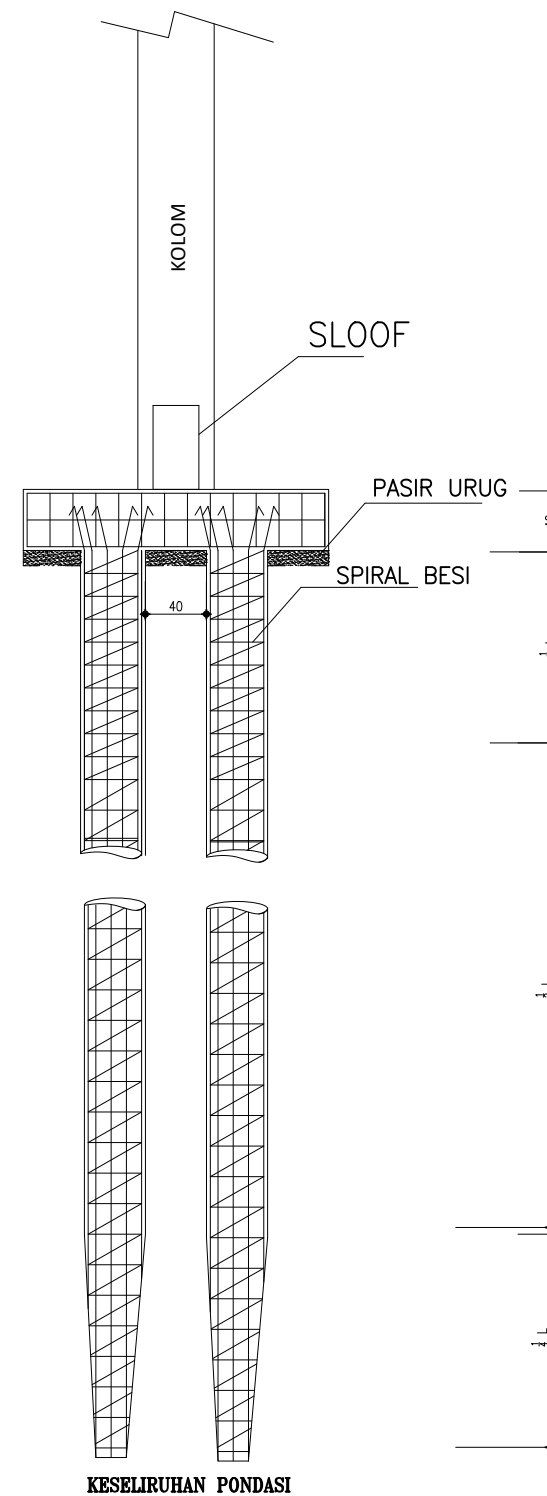
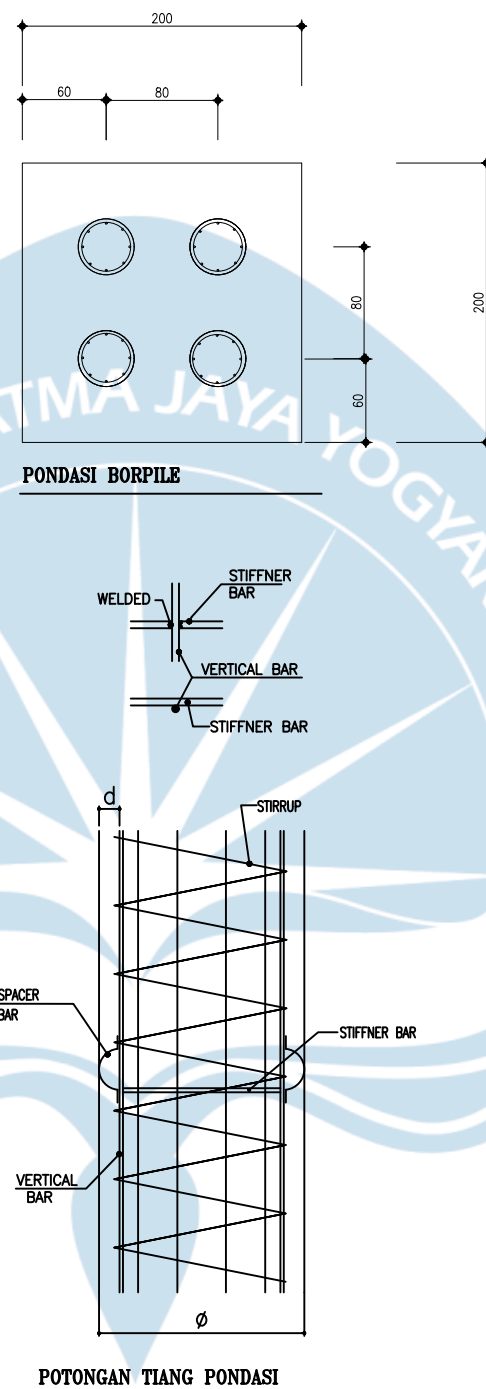
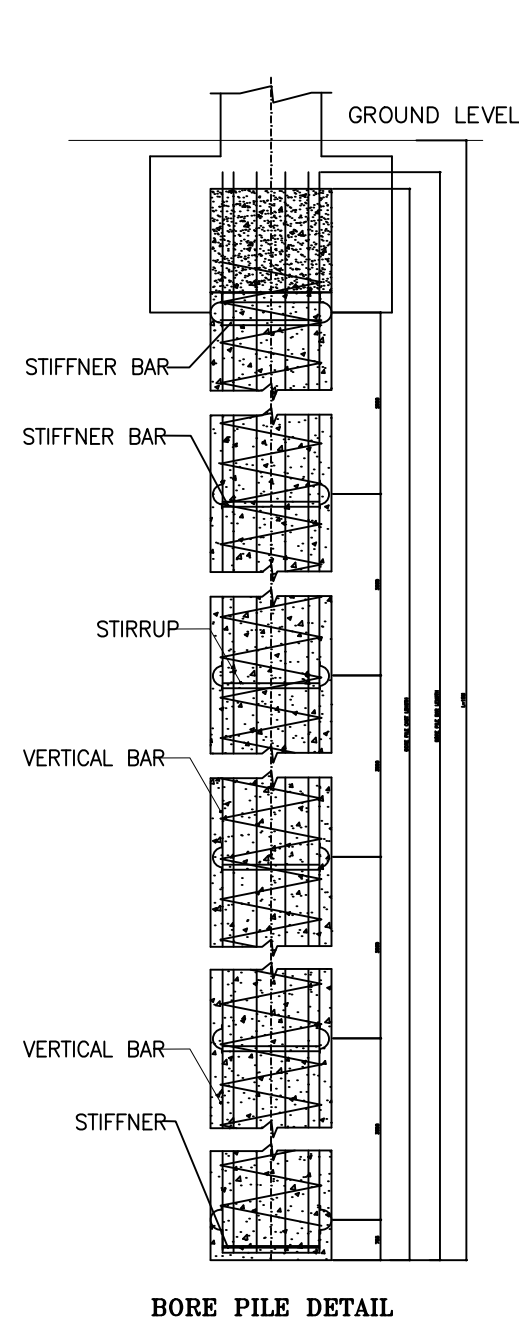
## Atap Spandek Zincalume

penggunaan atap spandek miring satu sisi ini yang di bolongi pada setiap lokasi yang ber void dan menggantikan bolongan tersebut dengan material poly carbonat twwinwall 6mm dengan arna TRANSLUCENT (Transparan) sehingga pencahayaan bisa memasuki bangunan secara alami dan merata ke setiap aspek bangunan yang membutuhkan pencahayaan

RENCANA ATAP

SKALA -

| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                                                              | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location        | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |             |
|----------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------|----------------|--------------------|--------------------------------|--------------------|-------------|
|                                  | PERIODE : SEMESTER<br>PERIOD : 00001                                                             | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong<br>Yogyakarta | Adrian Stovano Husadha<br>210118463     | 01. Rencana Atap              |                |                    |                                |                    |             |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026                                              |                                                                                                                      |                                          |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of. |
|                                  | Program Studi Arsitektur<br>Architecture Department<br>Fakultas Teknik<br>Faculty of Engineering |                                                                                                                      |                                          |                                         |                               |                |                    | XX1                            | XX                 | XX          |



**DETAIL PENEKANAN DESAIN**  
SKALA 1 : 20

|                                  |                                                                                                  |                                                                                                                      |                                          |                                         |                                                                                                     |                                      |                    |                                |                    |            |
|----------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                                                              | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location        | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title                                                                       | Skala<br>Scale                       | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODD I<br>TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026      | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong<br>Yogyakarta | Adrian Stevano Husadha<br>210118463     | 01. Detail Bor Pile<br>02. Potongan Tiang Pondasi<br>03. Keseluruhan Pondasi<br>04. Pondasi Borpile | 1 : 20<br>1 : 20<br>1 : 20<br>1 : 20 |                    |                                |                    |            |
|                                  | Program Studi Arsitektur<br>Architecture Department<br>Fakultas Teknik<br>Faculty of Engineering |                                                                                                                      |                                          |                                         |                                                                                                     |                                      |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  |                                                                                                  |                                                                                                                      |                                          |                                         |                                                                                                     |                                      |                    | XX1                            | XX                 | XX         |









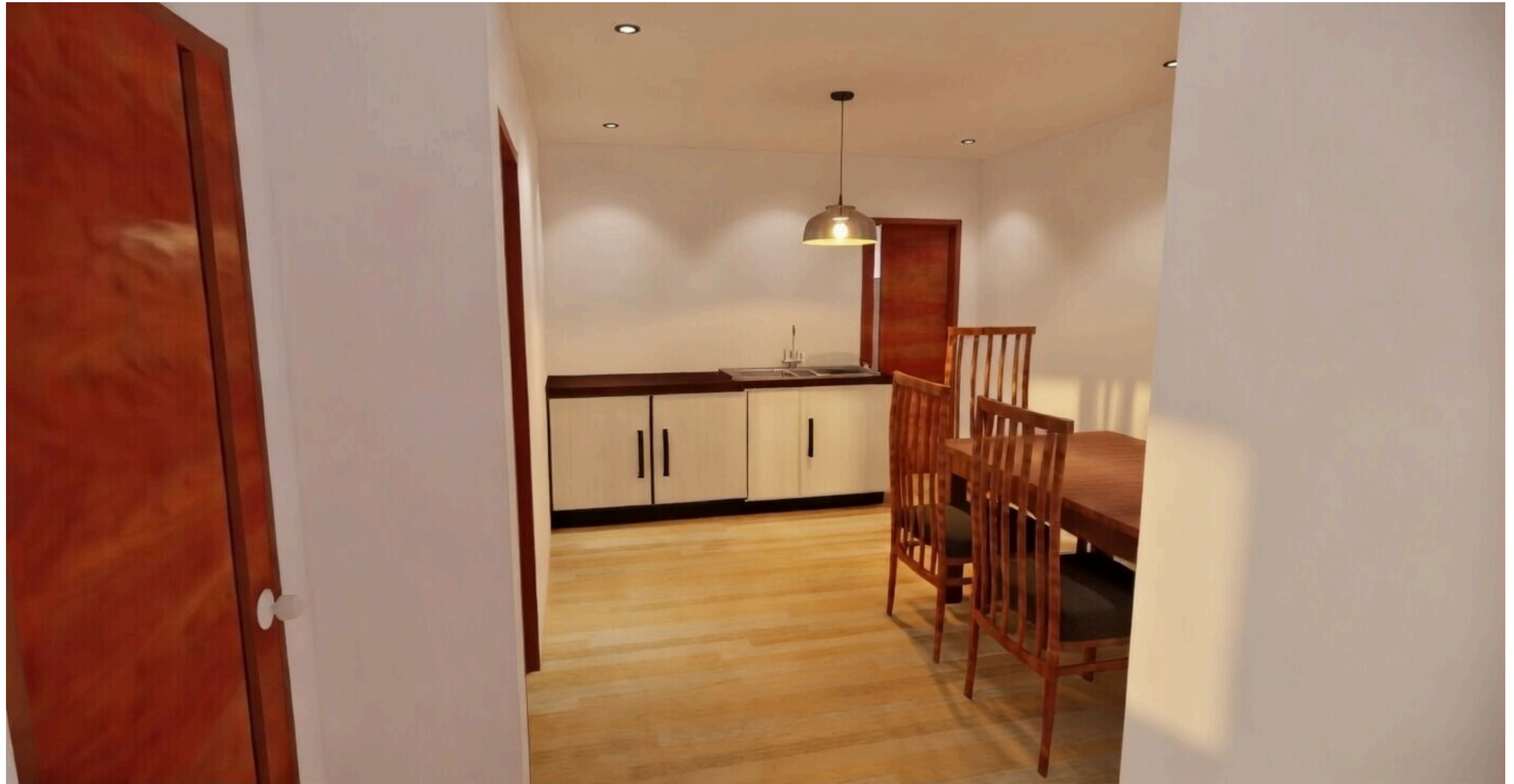












## RENDER 3D INTERIOR

SKALA -

|                                  |                                                     |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODDI                 | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong        | Adrian Stevano Husadha<br>210118463     | 01. Tampak Depan              | 1 :100         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektu<br>Architecture Department  |                                                                                                                      |                                   |                                         |                               |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |



## RENDER 3D INTERIOR

SKALA -

|                                  |                                                     |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-------------------------------|----------------|--------------------|--------------------------------|--------------------|------------|
| Universitas Atma Jaya Yogyakarta | Proyek Tugas Akhir<br>Final Project                 | Judul Proyek<br>Project Title                                                                                        | Lokasi Proyek<br>Project Location | Identitas Mahasiswa<br>Student Identity | Judul Gambar<br>Drawing Title | Skala<br>Scale | Keterangan<br>Note | Tanggal Gambar<br>Drawing Date |                    |            |
|                                  | PERIODE : GANJIL I<br>PERIOD : ODDI                 | Perencanaan dan Perancangan<br>Rumah Susun Dengan Pendekatan<br>Mitigasi Di Bantaran Sungai Gajah<br>Wong Yogyakarta | Bantaran Sungai Gajah Wong        | Adrian Stevano Husadha<br>210118463     | 01. Tampak Depan              | 1 :100         |                    |                                |                    |            |
|                                  | TAHUN AKADEMIK 2025/2026<br>ACADEMIC YEAR 2025/2026 |                                                                                                                      |                                   |                                         |                               |                |                    | Kode Gambar<br>Drawing Code    | No. Lbr<br>Pg. No. | Dari<br>Of |
|                                  | Program Studi Arsitektu<br>Architecture Department  |                                                                                                                      |                                   |                                         |                               |                |                    | XX1                            | XX                 | XX         |
|                                  | Fakultas Teknik<br>Faculty of Engineering           |                                                                                                                      |                                   |                                         |                               |                |                    |                                |                    |            |