

DEPARTEMEN TEKNIK SIPIL
SEKOLAH VOKASI
UNIVERSITAS GADJAHMADA
JLN. YACARANDA SEKIP UNIT IV YOGYAKARTA
TLP (0274) 522126, FAX (0274) 545193

TUGAS PRAKTIKUM
PENILAIAN KONDISI
INFRASTRUKTUR KEAIRAN
T.A. 2020-2021

DISETUJUI

DOSEN

RIAN MANTASA SALVE P., ST., MT.
NIDN. 0017059302

DIPERIKSA

ASISTEN

INDRI TRIAWATI SIMAMORA, B. Eng.

DIPERIKSA

ASISTEN

ARYANTI KARLINA N, S. Tr. T.

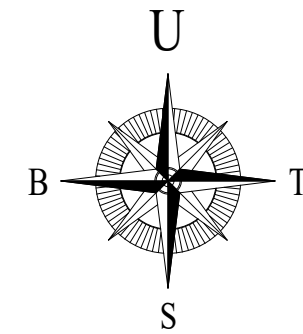
DIGAMBAR

MAHASISWA

ADITYA SOMA ATMAJA
NIM. 17/415991/SV/13729

| NO | NAMA GAMBAR | SKALA |
|----|------------------------|-------|
| 1. | DENAH BENDUNG DANAREJA | 1:150 |

| KODE | NO LEMBAR | JML LEMBAR |
|------|-----------|------------|
| IRI | 10 | 14 |



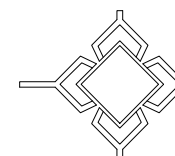
| RLb1 | |
|-----------------------|----------------------------|
| Saluran Primer 1-Kiri | |
| Q | 0,47096 m ³ /dt |
| V | 0,43548 m/dt |
| b | 1,0 m |
| h | 0,66 m |
| m | 1,0 |
| W | 0,4 m |
| A | 1,08 m ² |
| P | 2,85 m ² |
| R | 0,38 m |
| I | 0,0001915 |

| RRk1 | |
|------------------------|---------------------------|
| Saluran Primer 1-Kanan | |
| Q | 0,4929 m ³ /dt |
| V | 0,44645 m/dt |
| b | 1,0 m |
| h | 0,66 m |
| m | 1,0 |
| W | 0,4 m |
| A | 1,10 m ² |
| P | 2,88 m ² |
| R | 0,38 m |
| I | 0,0001985 |

15,91 m

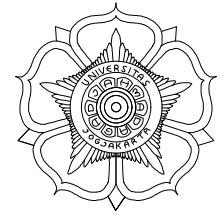
S. DANAREJA

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DENAH BENDUNG DANAREJA

SKALA 1:150



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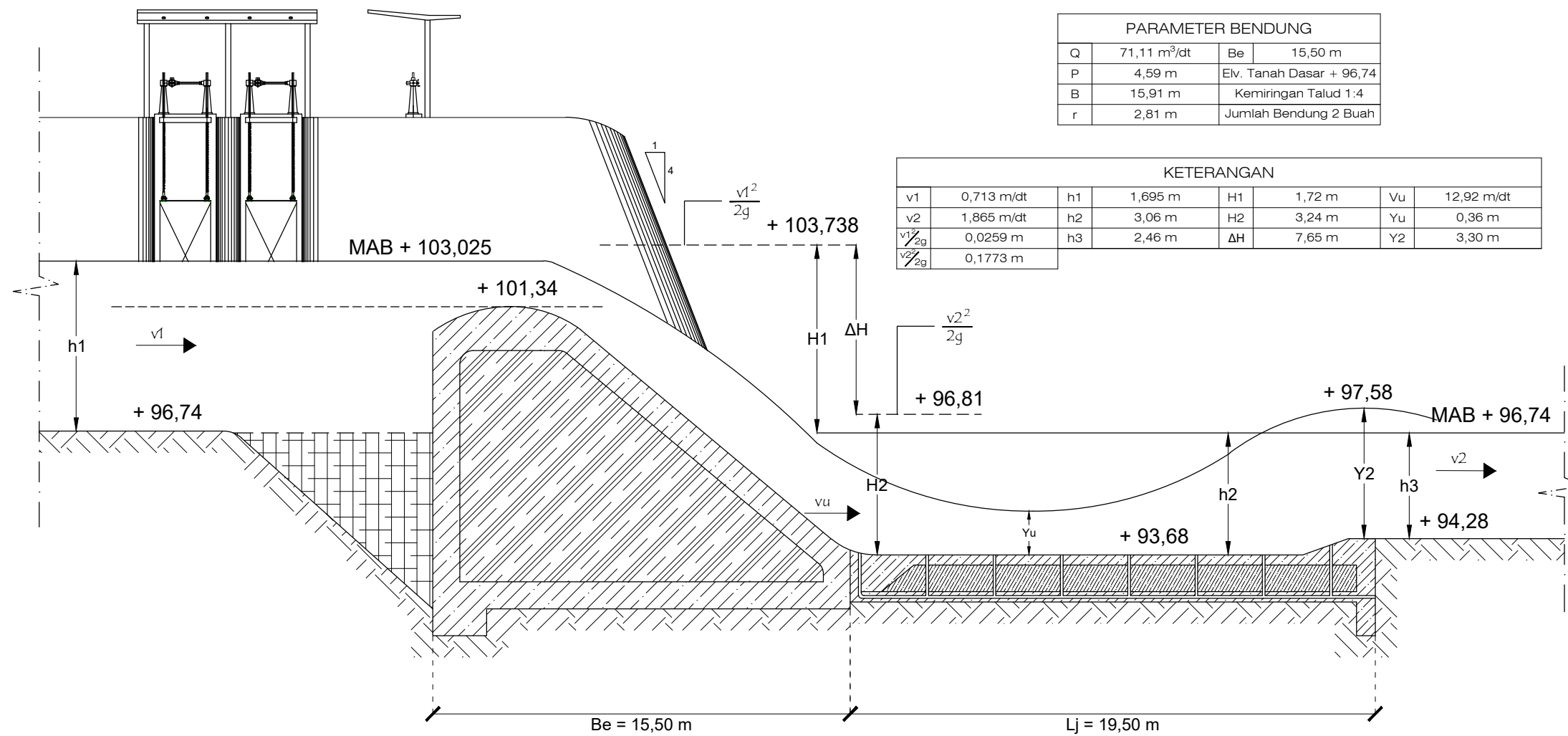
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| NO | NAMA GAMBAR | SKALA |
|----|---|-------|
| 1. | MODEL BENDUNG PART 1 & 2 - Pot. A - A | 1:200 |

| KODE | NO LEMBAR | JML LEMBAR |
|------|-----------|------------|
| IRI | 11 | 14 |

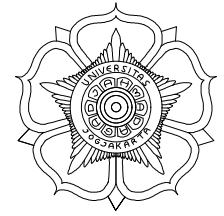
| | | | |
|---|--------------------------|------------------|---------|
| Q | 71,11 m ³ /dt | Be | 15,50 m |
| P | 4,59 m | Elv. Tanah Dasar | + 96,74 |
| B | 15,91 m | Kemiringan Talud | 1:4 |
| r | 2,81 m | Jumlah Bendung | 2 Buah |

| | | | | | | | |
|-------------------|------------|----|---------|------------|--------|----|------------|
| v1 | 0,713 m/dt | h1 | 1,695 m | H1 | 1,72 m | Vu | 12,92 m/dt |
| v2 | 1,865 m/dt | h2 | 3,06 m | H2 | 3,24 m | Yu | 0,36 m |
| $\frac{v1^2}{2g}$ | 0,0259 m | h3 | 2,46 m | ΔH | 7,65 m | Y2 | 3,30 m |
| $\frac{v2^2}{2g}$ | 0,1773 m | | | | | | |



POTONGAN A - A

MODEL BENDUNG PART 1 & 2
SKALA 1:200



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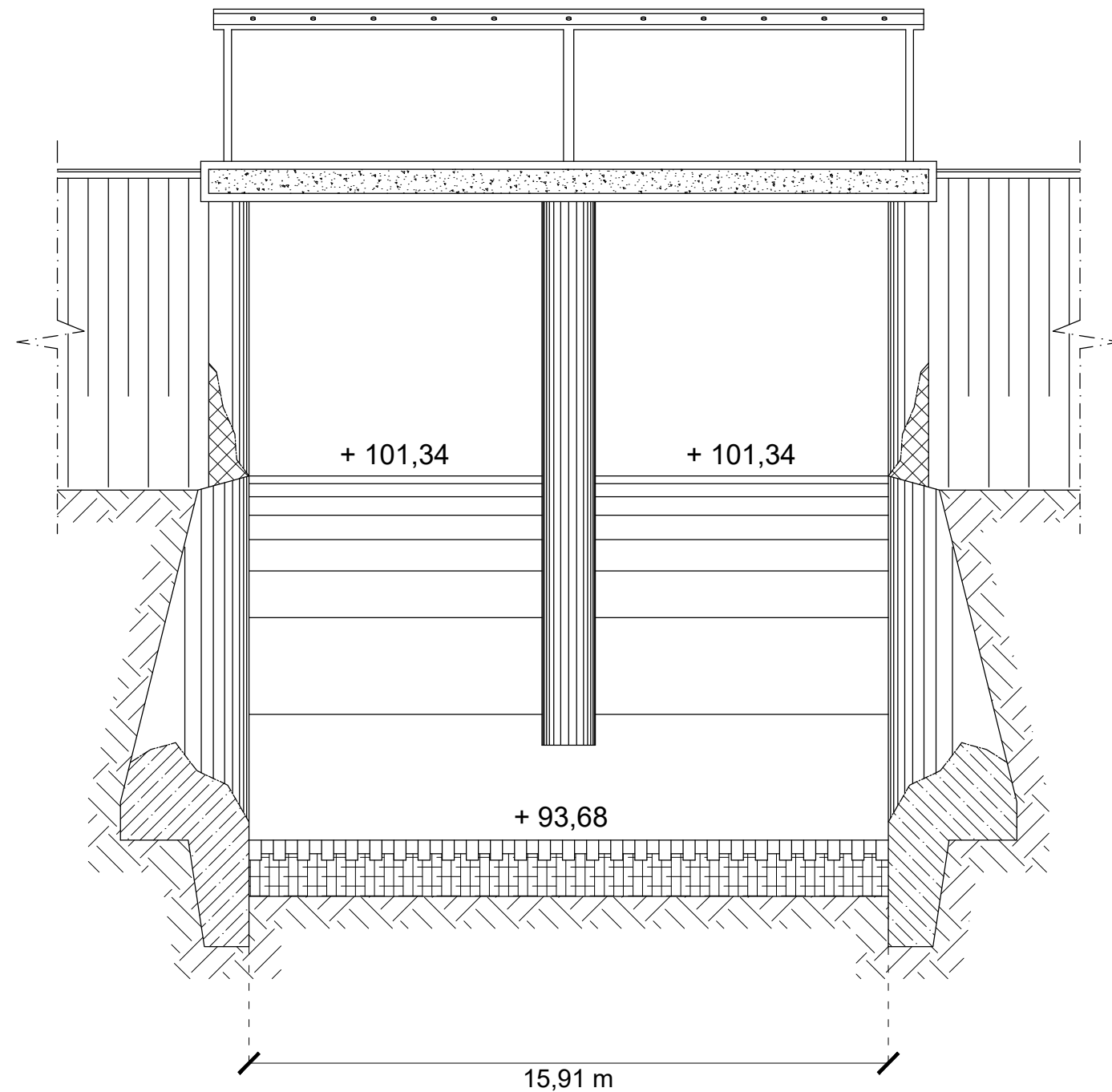
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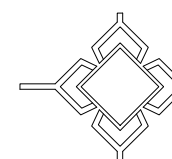
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| NO | NAMA GAMBAR | SKALA |
|------|---|------------|
| 1. | MODEL BENDUNG PART 1 & 2 - Pot. B - B | 1:150 |
| KODE | NO LEMBAR | JML LEMBAR |
| IRI | 12 | 14 |

| CATATAN |
|--------------------------|
| Elv. Mercu + 101,34 |
| Elv. Still Basin + 93,68 |
| Lebar Bendung 15,91 m |
| Jumlah Bendung 2 Buah |



POTONGAN B - B



MODEL BENDUNG PART 1 & 2

SKALA 1:150



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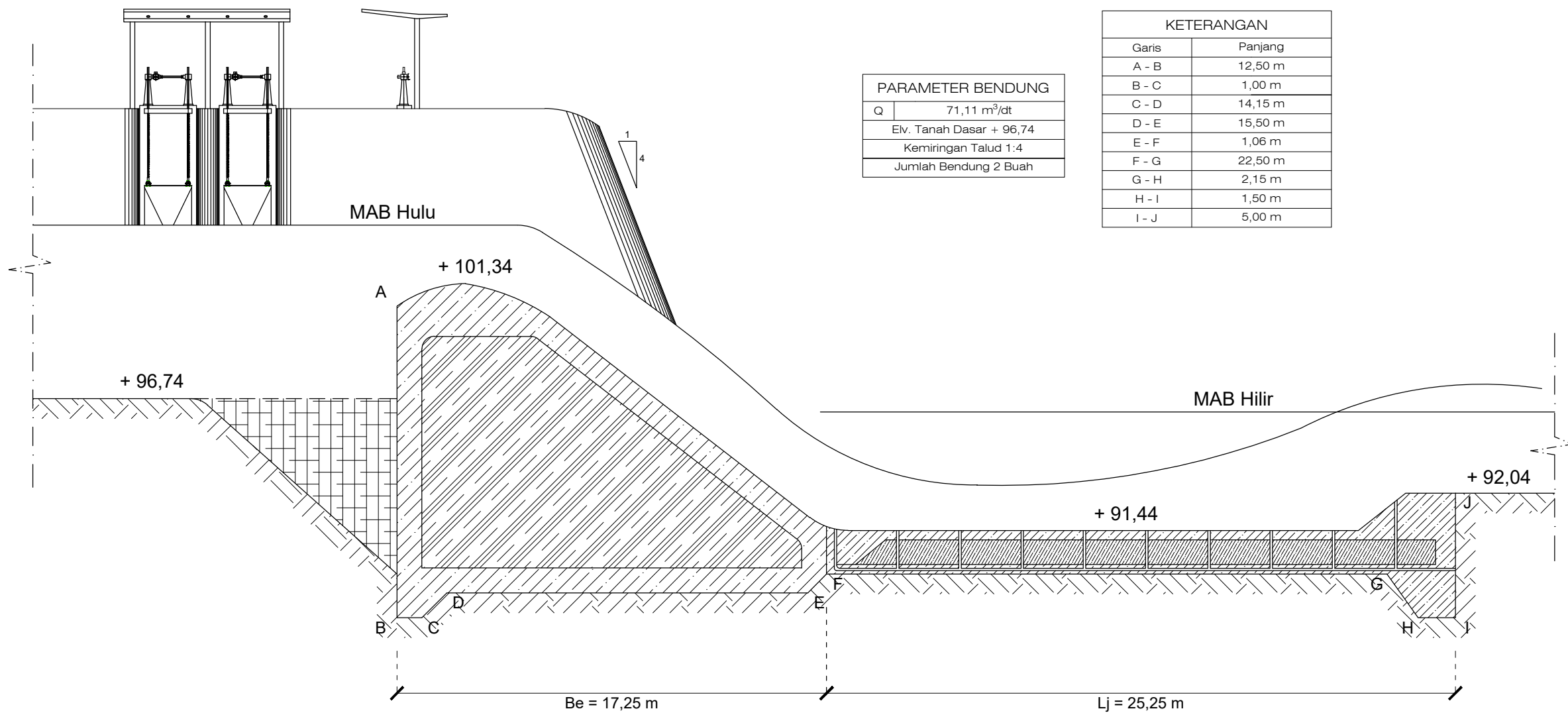
DIGAMBAR

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ADITYA SOMA ATMAJA
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| NO | NAMA GAMBAR | SKALA |
|----|---|-------|
| 1. | MODEL BENDUNG PART 3 & 4 - Pot. A - A | 1:200 |

| KODE | NO LEMBAR | JML LEMBAR |
|------|-----------|------------|
| IRI | 13 | 14 |



| PARAMETER BENDUNG | |
|--------------------------|--------------------------|
| Q | 71,11 m ³ /dt |
| Elv. Tanah Dasar + 96,74 | |
| Kemiringan Talud 1:4 | |
| Jumlah Bendung 2 Buah | |

| KETERANGAN | |
|------------|---------|
| Garis | Panjang |
| A - B | 12,50 m |
| B - C | 1,00 m |
| C - D | 14,15 m |
| D - E | 15,50 m |
| E - F | 1,06 m |
| F - G | 22,50 m |
| G - H | 2,15 m |
| H - I | 1,50 m |
| I - J | 5,00 m |

POTONGAN A - A

MODEL BENDUNG PART 3 & 4
SKALA 1:200



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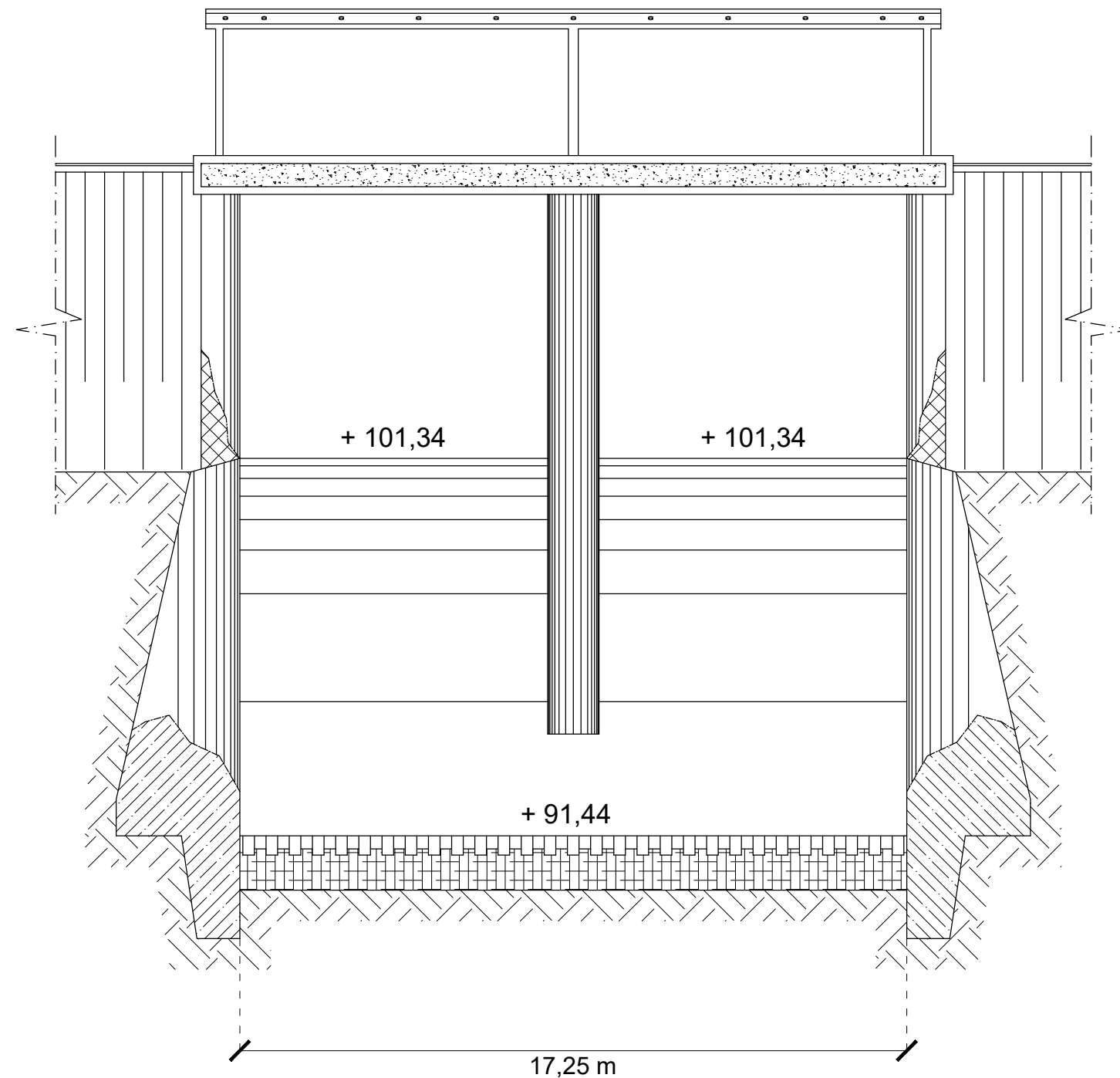
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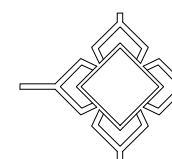
| NO | NAMA GAMBAR | SKALA |
|----|---|-------|
| 1. | MODEL BENDUNG PART 3 & 4 - Pot. B - B | 1:150 |

| KODE | NO LEMBAR | JML LEMBAR |
|------|-----------|------------|
| IRI | 14 | 14 |

| CATATAN |
|--------------------------|
| Elv. Mercu + 101,34 |
| Elv. Still Basin + 91,44 |
| Lebar Bendung 17,25 m |
| Jumlah Bendung 2 Buah |



POTONGAN B - B



MODEL BENDUNG PART 3 & 4

SKALA 1:150