



**PEMERINTAH KOTA SEMARANG  
DINAS PEKERJAAN UMUM**

JL. MADUKORO RAYA NO. 7, TELP. (024) 76433969, FAX. (024) 76433969 KOTA SEMARANG

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**FORM INVENTARISASI JEMBATAN  
Ruas Jalan  
SUREN**

**NO JEMBATAN : KT.33.074.11.0090.001  
NAMA JEMBATAN : SUREN  
TAHUN ANGGARAN : 2024**



**PEMERINTAH KOTA SEMARANG**  
**DINAS PEKERJAAN UMUM**

JL. MADUKORO RAYA NO. 7, TELP. (024) 76433969, FAX. (024) 76433969 KOTA SEMARANG

SISTEM  
MANAJEMEN  
JEMBATAN



## LAPORAN PEMERIKSAAN INVENTARISASI JEMBATAN

No. Jembatan Ruas Jalan Kabupaten dan Kota

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| KT | 3 | 3 | 0 | 7 | 4 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 1 |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

|                                  |  |               |                               |         |                                      |      |
|----------------------------------|--|---------------|-------------------------------|---------|--------------------------------------|------|
| Nama Jembatan                    | <b>SUREN</b>                           |               |                               |         | Propinsi / Kabupaten / Kota Semarang |      |
| Lokasi Jembatan                  | Koordinat Awal : -7.074710 LS          | 110.425786 BT | Dari (Kota Asal/Km.No1) : SMG |         | Km. (Jarak dari kota asal) : 0+400   |      |
|                                  | Koordinat Akhir : -7.074710 LS         | 110.425786 BT |                               |         |                                      |      |
| Tanggal Pemeriksaan<br>15/5/2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |               |                               |         | Tahun Pembangunan<br>-               |      |
| Nilai Lalu - Lintas :            | 0,344089                               | LHR :         | 1449                          | Tahun : |                                      | 2019 |

### INFORMASI PEMBANGUNAN JEMBATAN

|  |   |                  |      |
|--|---|------------------|------|
| 1 Tanggal / Bulan / Tahun pembangunan jembatan / pengoperasian pertama kali                      | : | -                |      |
| 2 Tanggal / Bulan / Tahun pelebaran/rehabilitasi/perkuatan jembatan / pengoperasian pertama kali | : | -                |      |
| 3 Tanggal / Bulan / Tahun serah terima aset  | : | -                |      |
| 4 Penanggung jawab pembangunan (Satker/PPK)  | : | -                |      |
| 5 Penanggung jawab pelebaran/rehabilitasi/perkuatan jembatan (Satker/PPK)                        | : | -                |      |
| 6 Biaya perencanaan  | : | -                |      |
| 7 Biaya pembangunan  | : | -                |      |
| 8 Biaya pelebaran/rehabilitasi/perkuatan jembatan  | : | -                |      |
| 9 Biaya pengujian  | : | -                |      |
| 10 Nilai aset serah terima   | : | -                |      |
| 11 Nama konsultan perencana pembangunan  | : | -                |      |
| 12 Nama <i>Independent Proof Checker</i> (IPC)   | : | -                |      |
| 13 Nama konsultan perencana pelebaran/rehabilitasi/perkuatan jembatan                            | : | -                |      |
| 14 Nama kontraktor pelaksana pembangunan   | : | -                |      |
| 15 Nama kontraktor pelaksana pelebaran/rehabilitasi/perkuatan jembatan                           | : | -                |      |
| 16 Nama subkontraktor spesialis  | : | -                |      |
| 17 Nama konsultan pengawas pembangunan   | : | -                |      |
| 18 Nama konsultan pengawas pelebaran/rehabilitasi/perkuatan jembatan                             | : | -                |      |
| 19 Nama konsultan pengujian  | : | -                |      |
|  |   | Tersedia / Tidak | File |
| 20 Laporan pembangunan/pelebaran/rehabilitasi/perkuatan jembatan                                 | : | Tidak            | -    |
| 21 <i>As-built-drawing</i> atau denah jembatan   | : | Tidak            | -    |

|  |                      |
|--|----------------------|
| Hanya untuk keperluan kantor                                   |                      |
| Tanggal memasukkan Data Pemeriksaan Inventarisasi<br>22/5/2024 | Oleh :<br>WAHYU DWIS |



**PEMERINTAH KOTA SEMARANG**  
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### INFORMASI KAPASITAS MUATAN

|  |   |       |       |
|--|---|-------|-------|
| 1 Batasan muatan sumbu terberat MST                                  | : | 8     | ton   |
| 2 Beban maksimum yang pernah di atas jembatan                        | : | 8     | ton   |
| 3 Jenis kendaraan berat yang umum lewat di atas jembatan             | : | TRUCK |       |
| 4 Tindakan darurat yang sedang/pernah dilakukan di atas jembatan     | : | C     |       |
| a. Pembatasan beban  |   |       |       |
| b. Penyokongan/Sangga  |   |       |       |
| c. Penutupan parsial/Sebagian  |   |       |       |
| d. Penutupan penuh   |   |       |       |
| e. Jalan Memutar/ <i>detour</i>                                      |   |       |       |
| f. Jembatan Sementara  |   |       |       |
| 5 Apakah tersedia jalan memutar/ <i>detour</i> jika jembatan ditutup |   | Ya    | tidak |
| 6 Panjang jarak tambahan yang harus ditempuh dengan jalan memutar    |   | 1200  | m     |

### INFORMASI KAPASITAS LALU LINTAS

|  |   |      |   |
|--|---|------|---|
| 1 Lalu - lintas harian rata-rata tahunan (LHR) AADT  | : | 1449 |   |
| 2 Nilai Lalu - Lintas (Perbandingan lebar jalur lalu-lintas yang tersedia di atas jembatan dengan lebar perkerasan sebelum masuk ke dalam jembatan |   |      |   |
| Longgar kendaraan bebas melintas di atas jembatan  |   | 0    |   |
| Cukup lebar kendaraan melaju perlahan di atas jembatan   |   | 3    |   |
| Sempit kendaraan harus antri atau berhenti   |   | 5    |   |
| 3 Lebar kendaraan maksimum ( <i>ODOL/Over-dimension overload vehicle</i> )   | : | 2.50 | m |

### INFORMASI BATASAN PERLINTASAN DAN LINGKUNGAN

|   |   |      |   |
|---|---|------|---|
| 1 Tinggi muka air banjir terhadap bagian atas lantai jembatan   | : | 8.00 | m |
| 2 Tinggi muka air banjir terhadap elevasi perletakan jembatan   | : | -    | m |
| 3 Tinggi muka air banjir terhadap elevasi terbawah bangunan atas jembatan                                       | : | 3.00 | m |
| 4 Kedalaman gerusan di sekitar pilar  | : | -    | m |
| 5 Kedalaman gerusan di sekitar kepala jembatan  | : | -    | m |
| 6 Kedalaman gerusan di sekitar tanah timbunan atau bangunan pengaman lainnya                                    | : | -    | m |
| 7 Tinggi bebas perlintasan <i>overpass</i> jalan  | : | -    | m |
| 8 Tinggi bebas perlintasan kereta api   | : | -    | m |
| 9 Tinggi bagian tertinggi dari kapal laut dan/atau angkutannya terhadap elevasi terbawah bangunan atas jembatan | : | -    | m |
| 10 Lebar alur pelayaran untuk dibandingkan dengan kapal laut  | : | -    | m |
| 11 Tinggi pylon dengan batasan lintasan pesawat udara dekat bandara   | : | -    | m |





### LAPORAN PEMERIKSAAN INVENTARISASI JEMBATAN

Nama Jembatan : **SUREN**

Sistem Manajemen Jembatan



Tipe Lintasan (pilih JN, SL, SM, SB, S/T, KA, L) : JN SL **SM** SB S/T KA L Jumlah Bentang : 1 Panjang Total (m) : 6.00 Bentang Terpanjang (m) : 6.00

| No. Bentang | Panjang Bentang (m) | Jumlah Gelagar | Sudut / skew (derajat) | Kelengkungan/radius (m) | Lebar Lantai Kend. (m) | Lebar Trotoar (m) | Tinggi Ruang Bebas (m) | Struktur Utama Bangunan Atas |     |     | Pilon (3.480) | Struktur Lantai (4.511) |     |     | Perkuatan Sistem Perkuatan Lantai (4.515) | Lapis Permukaan Sistem Lantai (4.514) | Pengaman Pengguna Jalan (3.620) |     |     | Perletakan (3.610) | Sambungan / Suar muai (3.600) |     |           | Perlengkapan Aerodinamik Jembatan (3.630) |           |     | Perkuatan Bangunan Atas (4.414, 4.425, 4.433, 4.446, 4.456, 4.464, 4.475, 4.495) |     |           | Perlengkapan Umum (3.710) |           |     | Penerangan (3.720) |     |           | Utilitas (3.730) |           |     | Pengaman Struktur dan Lingkungan (3.740) |     |           | SMKS (Sistem Monitoring Kesehatan Jembatan (3.750) |           |     | Perlengkapan Jembatan Gerak/Inovable bridge (3.760) |     |     | Fasilitas Pemeriksaan Tetap (3.770) |     |           | Gorong-gorong (3.820, 3.830, 3.840) |     |     | Perkuatan Gorong-gorong (3.850) |   |  | Lintasan Basah (3.910, 3.920, 3.930) |  |  |
|-------------|---------------------|----------------|------------------------|-------------------------|------------------------|-------------------|------------------------|------------------------------|-----|-----|---------------|-------------------------|-----|-----|---|---------------------------------------|---------------------------------|-----|-----|--------------------|-------------------------------|-----|-----------|---|-----------|-----|--|-----|-----------|---------------------------|-----------|-----|--------------------|-----|-----------|------------------|-----------|-----|--|-----|-----------|--|-----------|-----|---|-----|-----|-------------------------------------|-----|-----------|-------------------------------------|-----|-----|---------------------------------|---|--|--------------------------------------|--|--|
|             |                     |                |                        |                         |                        |                   |                        | TBA                          | BHN | SBA |               | TIPE                    | BHN | BHN |   |                                       | TBA                             | BHN | SBA |                    | Kode (L4)                     | BHN | Kode (L4) | BHN                                       | Kode (L4) | BHN | Kode (L4)  | BHN | Kode (L4) | BHN                       | Kode (L4) | BHN | Kode (L4)          | BHN | Kode (L4) | BHN              | Kode (L4) | BHN | Kode (L4)                                | BHN | Kode (L4) | BHN  | Kode (L4) | BHN | Kode (L4)   | BHN | TBA | BHN                                 | SBA | Kode (L4) | BHN                                 | TBA | BHN | SBA                             |   |  |                                      |  |  |
|             |                     |                |                        |                         |                        |                   |                        | P                            | T   | P   |               | -                       | -   | T   |   |                                       | T                               | A   | -   |                    | -                             | -   | -         | -   | -         | -   | -  | -   | -         | -                         | -         | -   | -                  | -   | -         | -                | -         | -   | -  | -   | -         | -  | -         | -   | -   | -   | -   | -                                   | -   | -         | -                                   | -   | -   | -                               | - |  |                                      |  |  |
| 1           | 6.00                | -              | -                      | -                       | 5.00                   | 0                 | -                      | P                            | T   | P   | -             | -                       | T   | T   | A   | -                                     | -                               | -   | -   | -                  | -                             | -   | -         | -   | -         | -   | -  | -   | -         | -                         | -         | -   | -                  | -   | -         | -                | -         | -   | -  | -   | -         | -  | -         | -   | -   | -   | -   | -                                   | -   | -         | -                                   |     |     |                                 |   |  |                                      |  |  |

Catatan :  
Pengisian disesuaikan dengan kode elemen dan kode laporan inventarisasi  
L4 adalah elemen pada level 4  
(\* ) adalah jembatan tipe gelagar

Lebar Total Plat Lantai = 5 m  
Bangunan Atas = 2 NILAI  
Lantai = 0 NILAI

| No. Kepala Jembatan / Pilar | Bangunan Bawah (2.300) |     |                               |     |                                  |     | Aliran Sungai (2.200) |                           |     | Jalan Pendekat (2.100)            |     |                        |     |   |     |                                |     |
|-----------------------------|------------------------|-----|-------------------------------|-----|----------------------------------|-----|-----------------------|---------------------------|-----|-----------------------------------|-----|------------------------|-----|---|-----|--------------------------------|-----|
|                             | Fondasi (3.310)        |     | Kepala Jembatan/Pilar (3.320) |     | Perkuatan Bangunan Bawah (4.326) |     | Tebing Sungai (4.211) | Bangunan Pengaman (3.220) |     | Perkerasan Jalan Pendekat (3.110) |     | Tanah Timbunan (3.120) |     | Struktur Penahan Tanah Jalan Pendekat (3.130) |     | Pengaman Lalu - Lintas (3.140) |     |
|                             | TIPE                   | BHN | TIPE                          | BHN | Kode (L4)                        | BHN | BHN                   | Kode (L4)                 | BHN | Kode (L4)                         | BHN | Kode (L4)              | BHN | Kode (L4)                                     | BHN | Kode (L4)                      | BHN |
| Kepala Jbt. A1              | LS                     | M   | B                             | M   | -                                | -   | M                     | 4.221                     | M   | 4.111                             | A   | -                      | -   | 4.131   | M   | -                              | -   |
| PILAR                       |                        |     |                               |     |                                  |     |                       |                           |     |                                   |     |                        |     |   |     |                                |     |
|                             |                        |     |                               |     |                                  |     |                       |                           |     |                                   |     |                        |     |   |     |                                |     |
|                             |                        |     |                               |     |                                  |     |                       |                           |     |                                   |     |                        |     |   |     |                                |     |
|                             |                        |     |                               |     |                                  |     |                       |                           |     |                                   |     |                        |     |   |     |                                |     |
|                             |                        |     |                               |     |                                  |     |                       |                           |     |                                   |     |                        |     |   |     |                                |     |
| Kepala Jbt A.2              | LS                     | M   | B                             | M   | -                                | -   | M                     | 4.221                     | M   | 4.111                             | A   | -                      | -   | 4.131   | M   | -                              | -   |

Catatan :  
Pengisian disesuaikan dengan kode elemen dan kode laporan inventarisasi  
L4 adalah elemen pada level 4  
(\* ) adalah jembatan tipe gelagar

Bangunan Bawah = 2 NILAI  
Pondasi = 2 NILAI





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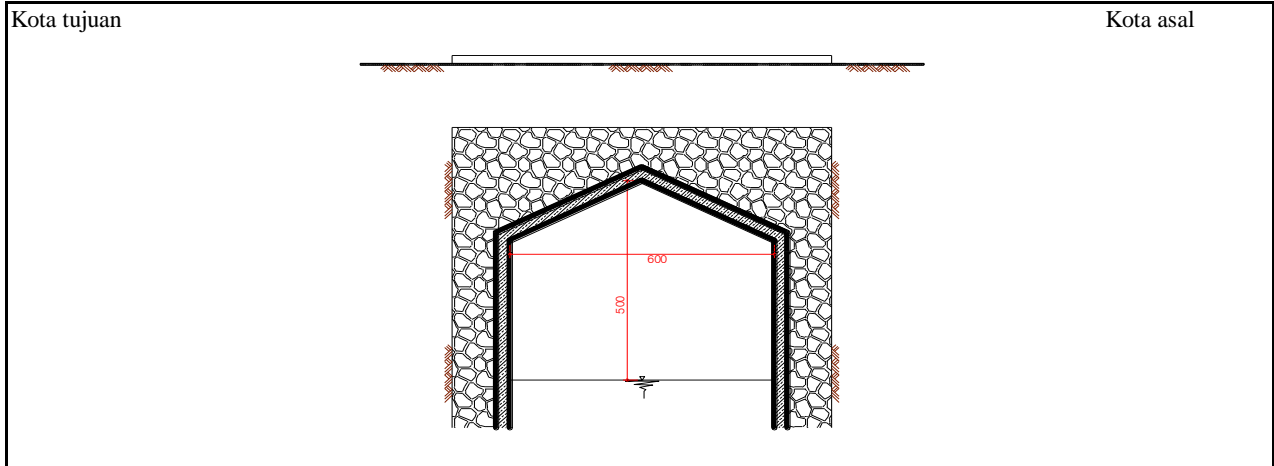
NO. JEMBATAN :

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

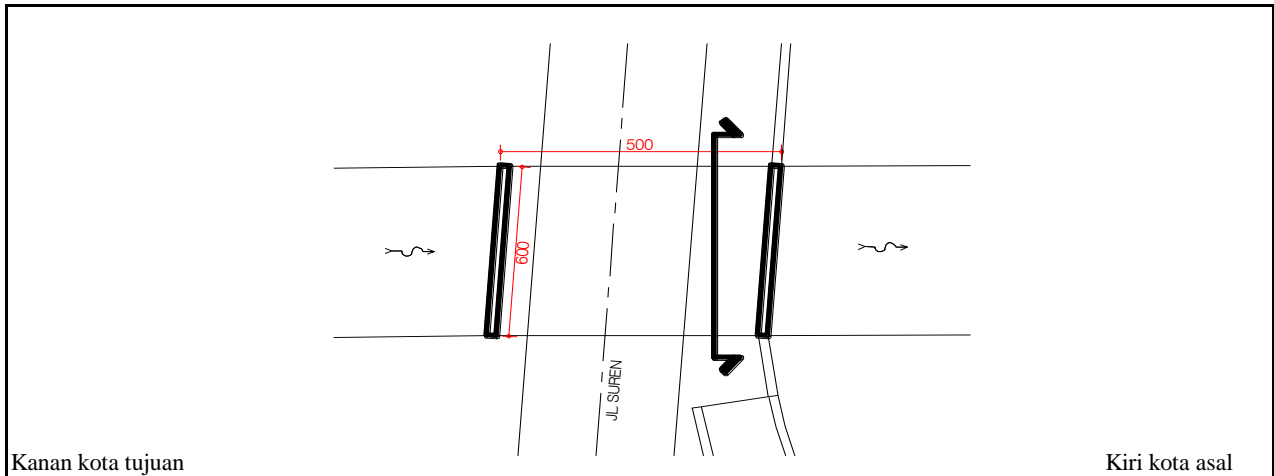
NAMA JEMBATAN :

SUREN-----

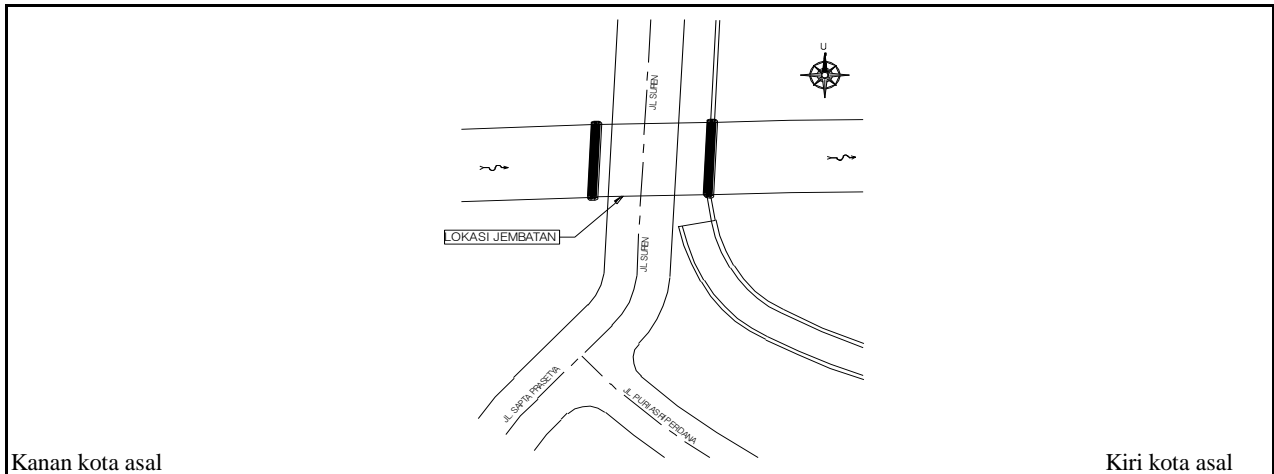
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**





**PEMERINTAH KOTA SEMARANG**  
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**TAMPAK MEMANJANG**



**TAMPAK MEMANJANG**



**TAMPAK MELINTANG**



**TAMPAK MELINTANG**

| <b>NOMOR JEMBATAN</b> | <b>NAMA JEMBATAN</b> | <b>LOKASI (Km)</b> | <b>PANJANG (M)</b> |
|-----------------------|----------------------|--------------------|--------------------|
| KT.33.074.11.0090.001 | SUREN                | 0+400              | 6.00               |





**KONDISI ALIRAN SUNGAI**



**KONDISI BANGUNAN BAWAH**



**PONDASI LANGSUNG TERGERUS**



**TIDAK ADA SANDARAN NYA**

| <b>NOMOR JEMBATAN</b> | <b>NAMA JEMBATAN</b> | <b>LOKASI (Km)</b> | <b>PANJANG (M)</b> |
|-----------------------|----------------------|--------------------|--------------------|
| KT.33.074.11.0090.001 | SUREN                | 0+400              | 6.00               |



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**FORM DETAIL JEMBATAN  
Ruas Jalan  
SUREN**

**NO JEMBATAN : KT.33.074.11.0090.001**  
**NAMA JEMBATAN : SUREN**  
**TAHUN ANGGARAN : 2024**



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SISTEM  
MANAJEMEN  
JEMBATAN



## LAPORAN PEMERIKSAAN DETAIL JEMBATAN

No. Jembatan Ruas Jalan Kabupaten dan Kota

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                  |  |           |      |            |                                      |                                    |
|----------------------------------|--|-----------|------|------------|--------------------------------------|------------------------------------|
| Nama Jembatan                    | SUREN                                  |           |      |            | Propinsi / Kabupaten / Kota Semarang |                                    |
| Lokasi Jembatan                  | Koordinat Awal :                       | -7.074710 | LS   | 110.425786 | BT                                   | Dari (Kota Asal/Km.No) : SMG       |
|                                  | Koordinat Akhir :                      | -7.074710 | LS   | 110.425786 | BT                                   | Km. (Jarak dari kota asal) : 0+400 |
| Tanggal Pemeriksaan<br>15/5/2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |           |      |            | Tahun Pembangunan<br>-               |                                    |
| Nilai Traffic :                  | 0,344089                               | LHR :     | 1449 | Tahun :    |                                      | 2019                               |

### USULAN PEMERIKSAAN KHUSUS

|                                      |    |       |
|--------------------------------------|----|-------|
| Apakah tindakan darurat disarankan ? | Ya | Tidak |
|--------------------------------------|----|-------|

#### Elemen elemen yang memerlukan Pemeriksaan Khusus

| Kode | Elemen<br>Uraian | Lokasi |   |   |   | Alasan untuk melakukan pemeriksaan khusus |
|------|------------------|--------|---|---|---|---|
|      |                  | A/P/B  | X | Y | Z |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |

### TINDAKAN DARURAT

|                                      |    |       |
|--------------------------------------|----|-------|
| Apakah tindakan darurat disarankan ? | Ya | Tidak |
|--------------------------------------|----|-------|

#### Elemen elemen yang memerlukan Tindakan Darurat

| Kode | Elemen<br>Uraian | Lokasi |   |   |   | Alasan untuk melakukan pemeriksaan khusus |
|------|------------------|--------|---|---|---|---|
|      |                  | A/P/B  | X | Y | Z |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |
|      |                  |        |   |   |   |   |

#### Hanya untuk keperluan kantor

|  |                      |
|--|----------------------|
| Tanggal memasukkan Data Pemeriksaan Inventarisasi<br>22/5/2024 | Oleh :<br>WAHYU DWIS |
|--|----------------------|

**LAPORAN PEMERIKSAAN MENDETAIL JEMBATAN**

**DAFTAR KERUSAKAN UNTUK LEVEL 3-5**

|              |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. Jembatan | KT | 3 | 3 | 0 | 7 | 4 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 1 |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**EVALUASI ELEMEN**

| Elemen | Kode                    | Uraian Level 2 (pilihan) | Elemen  | Kode                                  | Uraian Level 3 (pilihan)            | Kode  | Uraian (pilihan)   | Kode   | Uraian (pilihan) | Lokasi  |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|--------|-------------------------|--------------------------|---|---------------------------------------|-------------------------------------|---|--|--|------------------|---------|---|---|---|---|---|---------|---|---|----|---|---|---|---|---|----|---|--|--|--|--|--|--|
|        |                         |                          |   |                                       |                                     |   |  |  |                  | Level 5 |   |   |   |   |   | Level 4 |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       |                                     |   |  |  |                  | A/P/B   | X | Y | Z | S | R | K       | F | P | NK | S | R | K | F | P | NK |   |  |  |  |  |  |  |
| 2.100  | Jalan Pendekat          | 3.110                    | Perkerasan Jalan Pendekat   | 4.111                                 | Perkerasan Fleksibel Jalan Pendekat |   |  |  |                  | 0       | 0 | 0 | 0 | 0 | 0 | 0       | 0 | 0 | 0  | 0 | 0 | 0 | 0 | 0 | 0  | 0 |  |  |  |  |  |  |
|        |                         |                          |   | 4.112                                 | Perkerasan Kaku Jalan Pendekat      |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.113                                 | Pelat Injak                         |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.114                                 | Sleeper Slab                        |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.115                                 | Drainase Perkerasan                 |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          | 3.120   | Tanah Timbunan                        | 4.121                               | Tanah Timbunan                                |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.122                               | Timbunan Ringan                               |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.123                               | Geosintetik                                   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.124                               | Drainase Tanah Timbunan                       |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          | 3.130   | Struktur Penahan Tanah Jalan Pendekat | 4.131                               | Dinding Penahan Tanah Tanah                   |  |  |                  |         |   | 0 | 1 | 0 | 0 | 1       | 2 | 0 | 1  | 0 | 0 | 1 | 2 |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.132                               | Bertulang/Mechanically Stabilized Earth (MSE) |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.133                               | Drainase Struktur Penahan Tanah               |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.134                               | Soil nailing                                  |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          | 3.140   | Pengaman lalu - lintas                | 4.141                               | Tiang Pengaman Jalan Pendekat                 |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.142                               | Pagar Pengaman/Guardrail Jalan Pendekat       |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          | 2.200   | Aliran Sungai                         | 3.210                               | Aliran Sungai                                 | 4.211  | tebing sungai  |                  |         |   | 0 | 1 | 0 | 0 | 0       | 1 | 0 | 1  | 0 | 0 | 0 | 0 | 1 |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       |                                     |   | 4.212  | aliran air utama                                     |                  |         |   |   |   | 0 | 1 | 0       | 0 | 0 | 1  | 0 | 1 | 0 | 0 | 0 | 0  | 1 |  |  |  |  |  |  |
| 4.213  | dasarah engangan banjir |                          |   |                                       |                                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
| 3.220  | Bangunan Pengaman       | 4.221                    |   | Pengaman Aliran Sungai                |                                     |   |  |  |                  | 0       | 1 | 0 | 0 | 0 | 1 | 0       | 1 | 0 | 0  | 0 | 0 | 1 |   |   |    |   |  |  |  |  |  |  |
|        |                         | 4.222                    |   | Pengaman Tebing Sungai                |                                     |   |  |  |                  | 0       | 1 | 0 | 0 | 0 | 1 | 0       | 1 | 0 | 0  | 0 | 0 | 1 |   |   |    |   |  |  |  |  |  |  |
|        |                         | 4.223                    |   | Pengaman Bangunan Bawah               |                                     |   |  |  |                  | 0       | 1 | 0 | 0 | 0 | 1 | 0       | 1 | 0 | 0  | 0 | 0 | 1 |   |   |    |   |  |  |  |  |  |  |
|        |                         | 4.224                    |   | Perkuatan bangunan Pengaman           |                                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
| 2.300  | Bangunan Bawah          | 3.310                    | Pondasi   | 4.311                                 | Fondasi Tiang                       |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.312                                 | Fondasi Sumuran                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.313                                 | Fondasi Langsung                    | 521   | Pengikisan di sekitar jembatan (local scour)   |  |                  |         |   |   | 0 | 1 | 0 | 0       | 1 | 2 | 0  | 1 | 0 | 0 | 1 | 2 |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.314                                 | Pondasi Balok Pelengkung            |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.315                                 | Sambungan Fondasi dan Lainnya       |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          | 3.320   | Kepala Jembatan/Pilar                 | 4.316                               | Perkuatan Fondasi                             |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.317                               | Struktur jembatan apung                       |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.321                               | Balok Fondasi                                 |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.322                               | Dinding kepala jembatan / pilar               | 205  | Pecah atau hilangnya bahan (delaminasi, abrasi, aus) |                  |         |   |   |   | 0 | 1 | 0       | 0 | 1 | 2  | 0 | 1 | 0 | 0 | 1 | 2  |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.323                               | Balok Kepala Jembatan/Pilar                   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   |                                       | 4.324                               | Struktur pengaku                              |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
| 2.400  | Bangunan Atas           | 3.410                    | Sistem Gelagar  | 4.411                                 | Gelagar utama                       |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.412                                 | Gelagar                             |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.413                                 | Pengaku gelagar baja                |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.414                                 | Perkuatan gelagar                   |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.415                                 | Sambungan gelagar                   |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.416                                 | Drainase Gelagar                    |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         | 3.420                    | Jembatan Pelat  | 4.421                                 | pelat beton bertulang               | 201   | Cacat pada beton termasuk beton rontok / spalling, keropos, berongga, dan kualitas beton yang rendah |  |                  |         |   | 0 | 1 | 0 | 0 | 1       | 2 | 0 | 1  | 0 | 0 | 1 | 2 |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.422                                 | Pelat beton pracetak pratekan       |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         |                          |   | 4.423                                 | Kabel prategang melintang           |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
| 3.430  | Pelengkung              | 4.424                    | Shear key (sambungan antar pelat beton pracetak pratekan - flat slab, ) |                                       |                                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         | 4.425                    | Perkuatan Jembatan Pelat  |                                       |                                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |
|        |                         | 4.426                    | Drainase Jembatan Pelat   |                                       |                                     |   |  |  |                  |         |   |   |   |   |   |         |   |   |    |   |   |   |   |   |    |   |  |  |  |  |  |  |

| LEVEL 3 |   | Nilai Kondisi |   |   |   |   |    |
|---------|---|---------------|---|---|---|---|----|
| Kode    | Elemen                                      | S             | R | K | F | P | NK |
| 3.110   | Perkerasan Jalan Pendekat                   | 0             | 0 | 0 | 0 | 0 | -  |
| 3.120   | Tanah Timbunan                              |               |   |   |   |   | -  |
| 3.130   | Struktur Penahan Tanah Jalan Pendekat       | 0             | 0 | 0 | 0 | 0 | -  |
| 3.140   | Pengaman lalu-lintas                        |               |   |   |   |   | -  |
| 3.210   | Aliran Sungai                               | 0             | 1 | 0 | 0 | 0 | 1  |
| 3.220   | Bangunan Pengaman                           | 0             | 1 | 0 | 0 | 0 | 1  |
| 3.310   | Fondasi                                     | 0             | 1 | 0 | 0 | 1 | 2  |
| 3.320   | Kepala Jembatan/Pilar                       | 0             | 1 | 0 | 0 | 1 | 2  |
| 3.410   | Sistem Gelagar                              |               |   |   |   |   | -  |
| 3.420   | Jembatan Pelat                              | 0             | 1 | 0 | 0 | 1 | 2  |
| 3.430   | Pelengkung                                  |               |   |   |   |   | -  |
| 3.440   | Balok Pelengkung                            |               |   |   |   |   | -  |
| 3.450   | Rangka                                      |               |   |   |   |   | -  |
| 3.460   | Jembatan Beruji Kabel (Cable-Stayed)        |               |   |   |   |   | -  |
| 3.470   | Jembatan Gantung                            |               |   |   |   |   | -  |
| 3.480   | Pilon                                       |               |   |   |   |   | -  |
| 3.490   | Gelagar Boks                                |               |   |   |   |   | -  |
| 3.500   | Sistem Lantai                               | 0             | 0 | 0 | 0 | 0 | -  |
| 3.600   | Sambungan / Siar muai                       |               |   |   |   |   | -  |
| 3.610   | Perletakan                                  |               |   |   |   |   | -  |
| 3.620   | Pengaman Pengguna Jalan                     | 1             | 1 | 1 | 1 | 1 | 5  |
| 3.630   | Perlengkapan Aerodinamik Jembatan           |               |   |   |   |   | -  |
| 3.710   | Perlengkapan Umum                           | 0             | 0 | 0 | 0 | 0 | -  |
| 3.720   | Penerangan                                  |               |   |   |   |   | -  |
| 3.730   | Utilitas                                    | 0             | 0 | 0 | 0 | 0 | -  |
| 3.740   | Pengaman struktur dan lingkungan            |               |   |   |   |   | -  |
| 3.750   | SMKS (Sistem Monitoring Kesehatan Jembatan) |               |   |   |   |   | -  |
| 3.760   | Perlengkapan Jembatan Gerak/movable bridge  |               |   |   |   |   | -  |
| 3.770   | Fasilitas Pemeriksaan Tetap                 |               |   |   |   |   | -  |
| 3.810   | Tanah di dalam struktur Gorong-gorong       |               |   |   |   |   | -  |
| 3.820   | Gorong - gorong persegi Boks                |               |   |   |   |   | -  |
| 3.830   | Gorong- gorong pipa                         |               |   |   |   |   | -  |
| 3.840   | Gorong - gorong Pelengkung Baja Gelombang   |               |   |   |   |   | -  |
| 3.850   | Struktur Pendukung Gorong-gorong            |               |   |   |   |   | -  |
| 3.860   | Perkuatan gorong - gorong                   |               |   |   |   |   | -  |
| 3.910   | Lintasan dengan perkerasan                  |               |   |   |   |   | -  |
| 3.920   | Lintasan alam (tanpa perkerasan)            |               |   |   |   |   | -  |
| 3.930   | Lintasan dengan struktur semi - permanen    |               |   |   |   |   | -  |

| LEVEL 2 |                         | Nilai Kondisi |   |   |   |   |    |
|---------|-------------------------|---------------|---|---|---|---|----|
| Kode    | Elemen                  | S             | R | K | F | P | NK |
| 2.100   | Jalan Pendekat          |               |   |   |   |   | -  |
| 2.200   | Aliran Sungai           | 0             | 1 | 0 | 0 | 0 | 1  |
| 2.300   | Bangunan Bawah          | 0             | 1 | 0 | 0 | 1 | 2  |
| 2.400   | Bangunan Atas           | 0             | 1 | 0 | 0 | 1 | 2  |
| 2.700   | Perlengkapan            |               |   |   |   |   | -  |
| 2.800   | Gorong-gorong           |               |   |   |   |   | -  |
| 2.900   | Struktur Lintasan Basah |               |   |   |   |   | -  |

| LEVEL 1 |        | Nilai Kondisi |   |   |   |   |    |
|---------|--------|---------------|---|---|---|---|----|
| Kode    | Elemen | S             | R | K | F | P | NK |



| Elemen |                          | Elemen |   | Elemen |   | Kerusakan |                  | Lokasi |   |   |   |   | Level 5 |   |   |   |    | Level 4 |   |   |   |   |    |   |
|--------|--------------------------|--------|---|--------|---|-----------|------------------|--------|---|---|---|---|---------|---|---|---|----|---------|---|---|---|---|----|---|
| Kode   | Uraian Level 2 (pilihan) | Kode   | Uraian Level 3 (pilihan)                      | Kode   | Uraian (pilihan)  | Kode      | Uraian (pilihan) | A/P/B  | X | Y | Z | S | R       | K | F | P | NK | S       | R | K | F | P | NK |   |
|        |                          |        |   | 4,715  | Pendukung sandaran / median                             |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,721  | Sistem penerangan                                       |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,720  | Penerangan                                    | 4,721  | Sistem penerangan                                       |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,722  | Struktur Tiang Pemasangan                               |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,723  | Penujangan Penerangan                                   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,730  | Utilitas                                      | 4,731  | Utilitas Kabel Listrik                                  |           |                  |        |   |   |   | 0 | 0       | 0 | 0 | 0 | 0  | 0       | 0 | 0 | 0 | 0 | 0  | 0 |
|        |                          |        |   | 4,732  | Utilitas Pipa Air Minum                                 |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,733  | Utilitas Kabel Telekomunikasi                           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 7,734  | Utilitas Pipa Air Kotor                                 |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,735  | Utilitas Pipa Pembawa                                   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 7,736  | Bahan Energi lainnya                                    |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,737  | Sambungan utilitas                                      |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,740  | Pengaman Struktur dan Jalan Lingkungan        | 4,741  | Perangkat Pengendali Kelembaban                         |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,742  | Perangkat Penangkal Petir                               |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,743  | Perangkat Perlindungan Korosi dan Biotik Laut           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,744  | Lubang Ventilasi  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,745  | Pemantauan Labang Ventilasi                             |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,750  | SMKS (Sistem Monitoring Kesehatan Jembatan)   | 4,751  | Sensor Struktur   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,752  | Perangkat Pengukur Beban Kendaraan                      |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,753  | Sensor pengukur Beban Kendaraan                         |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,754  | Perangkat lainnya                                       |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,760  | Perlengkapan Jembatan Gerak / moveable bridge | 4,755  | Perangkat Pemutar Data                                  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,761  | Sistem penggerak fungsional                             |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,762  | Sistem Elektrik   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,763  | Sistem Hidrolik   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,764  | Sistem Mekanis  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,770  | Fasilitas Pemeriksaan Tetap                   | 4,771  | Tangga / Platform Pemeriksaan                           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,772  | Lubang Masuk (gelagar, kolom)                           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,773  | Traveler  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
| 2.800  | gorong - gorong          | 3,810  | Tanah di dalam struktur Gorong - gorong       | 4,811  | Tanah timbunan di atas gorong - gorong                  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,812  | Tanah dasar di bawah struktur gorong - gorong           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,820  | Gorong - gorong Persegi Boks                  | 4,821  | Dinding Tegak   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,822  | Pelat Bawah   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,823  | Pelat Atas  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,824  | Drainase Gorong - gorong Persegi Boks                   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,830  | Gorong - gorong Pipa                          | 4,831  | Dinding penahan tanah timbunan                          |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,832  | Drainase Gorong - gorong Pipa                           |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,841  | Pelat Baja Gelombang                                    |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,842  | Sambungan / Baut remsikat                               |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,843  | Fondasi / Pelat Beton Dudukan Pelengkung Baja Gelombang |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,844  | Drainase Gorong gorong Pelengkung Baja Berzelombang     |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,850  | Struktur Pendukung Gorong - gorong            | 4,851  | Tembok Savan  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,852  | Tembok Kepala (Head wall) Gorong-gorong                 |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,853  | Tembok Bawah (Drop wall) Gorong-gorong                  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,854  | Arcan   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,860  | Perkuatan Gorong - gorong                     | 4,861  | Perkuatan dengan Lapisan Beton Tambahan                 |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,862  | Perkuatan dengan FRP                                    |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          |        |   | 4,863  | Perkuatan dengan Lapisan Baja Tambahan                  |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
| 2.900  | Struktur Lintasan B      | 3,910  | Lintasan dengan Perkerasan                    |        |   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,920  | Lintasan Alam (tampa perkerasan)              |        |   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |
|        |                          | 3,930  | Lintasan dengan struktur semi - permanen      |        |   |           |                  |        |   |   |   |   |         |   |   |   |    |         |   |   |   |   |    |   |

| LEVEL 3 |        | Nilai Kondisi |   |   |   |   |    |
|---------|--------|---------------|---|---|---|---|----|
| Kode    | Elemen | S             | R | K | F | P | NK |



**PEMERINTAH KOTA SEMARANG  
DINAS PEKERJAAN UMUM**

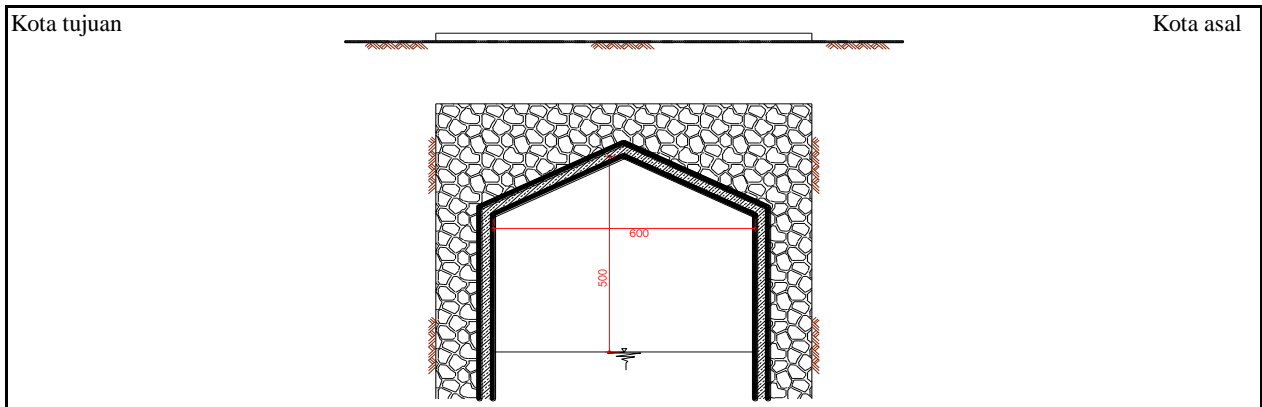
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NO. JEMBATAN : 

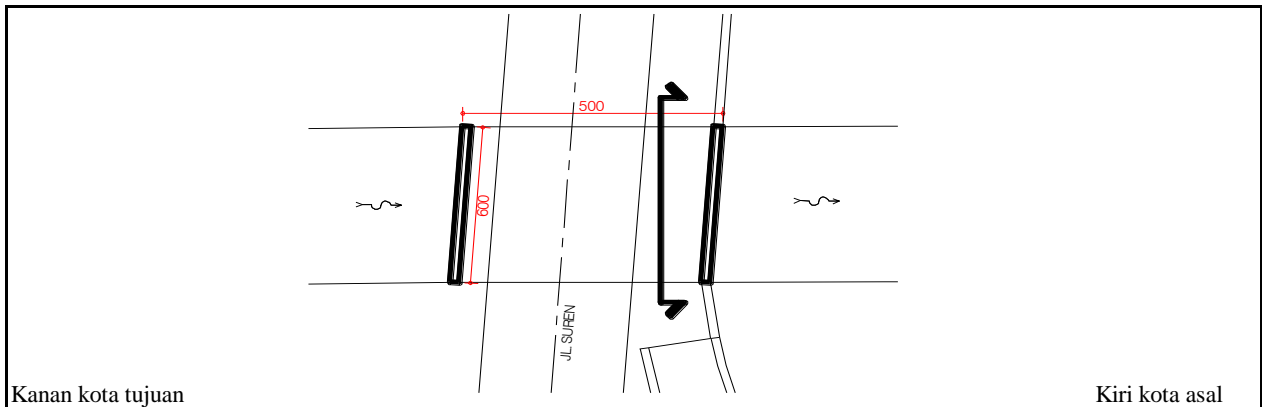
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| KT | 3 | 3 | 0 | 7 | 4 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 1 |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

NAMA JEMBATAN : SUREN

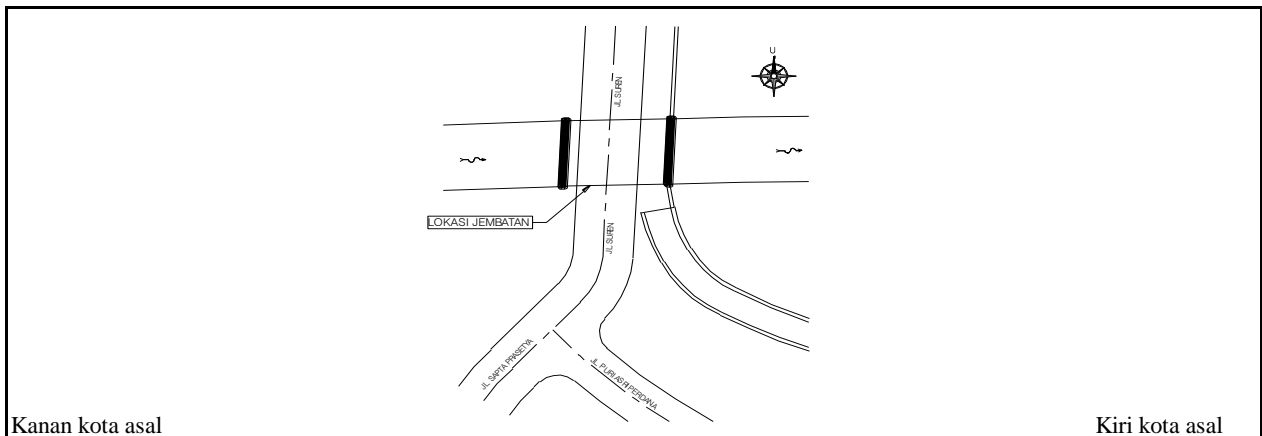
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**





**PEMERINTAH KOTA SEMARANG  
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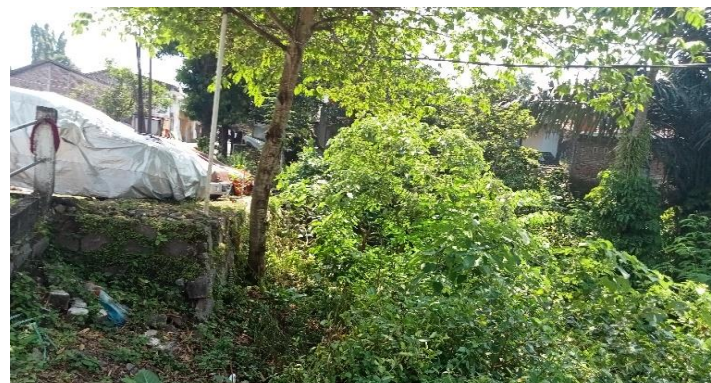
**TAMPAK MEMANJANG**



**TAMPAK MEMANJANG**



**TAMPAK MELINTANG**



**TAMPAK MELINTANG**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.11.0090.001 | SUREN         | 0+400       | 6.00        |





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DINAS PEKERJAAN UMUM**

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**KONDISI ALIRAN SUNGAI**



**KONDISI BANGUNAN BAWAH**



**PONDASI LANGSUNG TERGERUS**



**TIDAK ADA SANDARAN NYA**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI ( Km ) | PANJANG ( M ) |
|-----------------------|---------------|---------------|---------------|
| KT.33.074.11.0090.001 | SUREN         | 0+400         | 6.00          |