



**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**  
**GEMAH**

**NO JEMBATAN : KT.33.074.06.0009.001**  
**NAMA JEMBATAN : GEMAH 1**  
**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 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                 |                                        |           |     |           |                                                |                                    |
|---------------------------------|----------------------------------------|-----------|-----|-----------|------------------------------------------------|------------------------------------|
| Nama Jembatan                   | <b>GEMAH 1</b>                         |           |     |           | <u>Propinsi / Kabupaten / Kota</u><br>Semarang |                                    |
| Lokasi Jembatan                 | Koordinat Awal :                       | -7.009681 | LS  | 110.46747 | BT                                             | Dari (Kota Asal/Km.Nol) : SMG      |
|                                 | Koordinat Akhir :                      | -7.009681 | LS  | 110.46747 | BT                                             | Km. (Jarak dari kota asal) : 0+000 |
| Tanggal Pemeriksaan<br>9/3/2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |           |     |           | Tahun Pembangunan<br>-                         |                                    |
| Nilai Lalu - Lintas :           | 0,196107                               | LHR :     | 826 | 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>14/3/2024 | Oleh :<br>WAHYU DWI S |



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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             | : | MOBIL |       |
| 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    |   | 850   | m     |

**INFORMASI KAPASITAS LALU LINTAS**

|                                                                                                                                                     |   |      |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|------|---|
| 1 Lalu - lintas harian rata-rata tahunan (LHR) AADT                                                                                                 | : | 826  |   |
| 2 Nilai Lalu - Lintas (Perbandingan lebar jalur lalu-lintas yang tersedia di atas jembatan dengan lebar perkerasan sebelum masuk ke dalam jembatan) |   | 3    |   |
| 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                                                   | : | 2,50 | m |
| 2 Tinggi muka air banjir terhadap elevasi perletakan jembatan                                                   | : | -    | m |
| 3 Tinggi muka air banjir terhadap elevasi terbawah bangunan atas jembatan                                       | : | 1,5  | 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 pilon dengan batasan lintasan pesawat udara dekat bandara                                             | : | -    | m |



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**KODE-KODE PEMERIKSAAN INVENTARISASI JEMBATAN**

| Tipe Lintasan               |                                                     | JN (jalan) | SL (sungai lurus)                 | SM (sungai meander) | SB (sungai berjalın)          | S/T (selat atau teluk)                                                                                                                                               | KA (Kereta Api)                    | L (lain-lain) |                                         |                |                                |    |                                    |    |                          |   |           |   |                |
|-----------------------------|-----------------------------------------------------|------------|-----------------------------------|---------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------|-----------------------------------------|----------------|--------------------------------|----|------------------------------------|----|--------------------------|---|-----------|---|----------------|
| A. TBA (Tipe Bangunan Atas) |                                                     |            | B. BHN (Bahan)                    |                     | C1. SBA (Sifat Bangunan Atas) |                                                                                                                                                                      | C2. Keterangan Detail              |               | D. TF (Tipe Fondasi)                    |                | E. KJP (Kepala Jembatan/Pilar) |    |                                    |    |                          |   |           |   |                |
| B                           | gorong-gorong persegi                               | K          | Kayu                              | P                   | Permanen                      | A                                                                                                                                                                    | Australia                          | CA            | Cakar Ayam                              | A              | Cap (Kepala tiang)             |    |                                    |    |                          |   |           |   |                |
| Y                           | gorong-gorong pipa                                  | S          | Pasangan bata                     | S                   | Semi Permanen                 | T                                                                                                                                                                    | Australia (Sementara)              | LS            | Langsung                                |                |                                | B  | Dinding penuh                      |    |                          |   |           |   |                |
| A                           | gorong-gorong pelengkung                            | M          | Pasangan batu                     | W                   | Darurat                       | B                                                                                                                                                                    | Belanda (tipe baru)                | TP            | Tiang Pancang                           |                |                                |    |                                    | K  | Kepala jembatan khusus   |   |           |   |                |
| T                           | gantung                                             | G          | Bronjong dan sejenisnya           | X                   | Tidak ada struktur            | D                                                                                                                                                                    | Belanda (tipe lama)                | PB            | Tiang Bor                               |                |                                |    |                                    |    |                          |   |           |   |                |
| C                           | Jembatan Gantungan /<br>Beruji Kabel (Cable Stayed) | H          | Pasangan batu kosong              | M                   | Bergerak                      | I                                                                                                                                                                    | Indonesia                          | TU            | Tiang Ulir                              |                |                                |    |                                    |    |                          |   |           |   |                |
| G                           | gelagar                                             | D          | Beton tak bertulang               | F                   | Apung                         | J                                                                                                                                                                    | Jepang                             | SU            | Sumuran                                 | Pilar          |                                |    |                                    |    |                          |   |           |   |                |
| M                           | gelagar komposit                                    | T          | Beton bertulang                   |                     |                               | R                                                                                                                                                                    | Austria                            | LL            | Lain-lain                               | C              | Cap (kepala tiang)             |    |                                    |    |                          |   |           |   |                |
| O                           | Gelagar Boks                                        | P          | Beton pratekan                    |                     |                               | E                                                                                                                                                                    | Spanyol                            | PILON         |                                         |                |                                | P  | Dinding penuh                      |    |                          |   |           |   |                |
| Q                           | Gelagar tipe U                                      | B          | Baja                              |                     |                               | U                                                                                                                                                                    | Callender Hamilton<br>(UK/Inggris) |               |                                         |                |                                |    |                                    |    |                          |   |           |   |                |
| L                           | balok pelengkung                                    | U          | Pelat baja gelombang              |                     |                               | W                                                                                                                                                                    | Acrow/Bailey                       | A             | Tipe A                                  |                |                                |    |                                    | D  | Dua kolom                |   |           |   |                |
| E                           | pelengkung                                          | Y          | Komposit Baja - beton             |                     |                               | Catatan :<br><br>Asal produksi jembatan,<br>apabila diketahui pasti, dari<br>pemeriksaan detail dapat<br>dituliskan atau diganti dengan<br>sifat apabila tidak pasti |                                    | D             | Tipe Diamond                            | T              | Tiga atau lebih kolom          |    |                                    |    |                          |   |           |   |                |
| D                           | Flat Slab                                           | J          | Aluminium                         |                     |                               |                                                                                                                                                                      |                                    | H             | Tipe H                                  |                |                                | I  | Tipe Tunggal / I                   |    |                          | L | Lain-lain |   |                |
| V                           | Voided Slab                                         | E          | Neoprene / karet                  |                     |                               |                                                                                                                                                                      |                                    | Y             | Tipe Y                                  |                |                                |    |                                    |    |                          |   |           | V | Tipe V terbuka |
| R                           | rangka                                              | V          | PVC                               |                     |                               |                                                                                                                                                                      |                                    |               |                                         |                |                                |    |                                    |    |                          |   |           |   |                |
| P                           | Pelat                                               | N          | geotextile                        |                     |                               |                                                                                                                                                                      |                                    | W             | Tipe Double I                           | Tiang Sandaran |                                |    |                                    |    |                          |   |           |   |                |
| F                           | ferry                                               | O          | Tanah biasa/lempung atau timbunan |                     |                               |                                                                                                                                                                      |                                    | TB            | tiang beton sandaran baja               | DB             | tiang baja sandaran baja       |    |                                    |    |                          |   |           |   |                |
| K                           | lintasan kereta api                                 | A          | Aspal                             |                     |                               |                                                                                                                                                                      |                                    | BB            | dinding bagian bawah +<br>sandaran baja |                |                                | DD | Sandaran/Median beton<br>bertulang |    |                          |   |           |   |                |
| W                           | lintasan basah                                      | R          | kerikil/pasir                     |                     |                               |                                                                                                                                                                      |                                    | DD            |                                         |                |                                |    |                                    | KK | tiang kayu sandaran kayu |   |           |   |                |
| U                           | lain-lain                                           | W          | Macadam                           |                     |                               |                                                                                                                                                                      |                                    | KK            |                                         |                |                                |    |                                    |    |                          |   |           |   |                |
|                             |                                                     | X          | Bahan asli                        |                     |                               |                                                                                                                                                                      |                                    |               |                                         |                |                                |    |                                    |    |                          |   |           |   |                |
|                             |                                                     | L          | Lain-lain                         |                     |                               |                                                                                                                                                                      |                                    |               |                                         |                |                                |    |                                    |    |                          |   |           |   |                |



| Bangunan Bawah (2.300)                                                  |                 |     |                               |     |                                  |     | Aliran Sungai (2.200) |                           |                |                                   | Jalan Pendekat (2.100) |                        |       |                                               |     |                                |     |  |
|-------------------------------------------------------------------------|-----------------|-----|-------------------------------|-----|----------------------------------|-----|-----------------------|---------------------------|----------------|-----------------------------------|------------------------|------------------------|-------|-----------------------------------------------|-----|--------------------------------|-----|--|
| No. Kepala jembatan / Pilar                                             | 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 Lahu - 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   | -                              | -   |  |
| P I L A R                                                               |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
|                                                                         |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
|                                                                         |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
|                                                                         |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
|                                                                         |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
|                                                                         |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
| Kepala Jbt A.2                                                          | LS              | M   | B                             | M   | -                                | -   | M                     | 4.221                     | M              | 4.111                             | A                      | -                      | -     | 4.131                                         | M   | -                              | -   |  |
| Catatan :                                                               |                 |     |                               |     |                                  |     |                       |                           | Bangunan Bawah |                                   | =                      | 1                      | NILAI |                                               |     |                                |     |  |
| Pengisian disesuaikan dengan kode elemen dan kode laporan inventarisasi |                 |     |                               |     |                                  |     |                       |                           | Pondasi        |                                   | =                      | 1                      | NILAI |                                               |     |                                |     |  |
| L4 adalah elemen pada level 4                                           |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |
| (*) adalah jembatan tipe gelagar                                        |                 |     |                               |     |                                  |     |                       |                           |                |                                   |                        |                        |       |                                               |     |                                |     |  |



## LAPORAN PEMERIKSAAN INVENTARISASI PELEBARAN JEMBATAN

|                 |                |
|-----------------|----------------|
| Nama Jembatan : | <b>GEMAH 1</b> |
|-----------------|----------------|

|                                                  |    |    |    |    |     |    |   |                  |   |                     |      |                          |      |
|--------------------------------------------------|----|----|----|----|-----|----|---|------------------|---|---------------------|------|--------------------------|------|
| 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) : | 4.20 | Bentang Terpanjang (m) : | 4.20 |
|--------------------------------------------------|----|----|----|----|-----|----|---|------------------|---|---------------------|------|--------------------------|------|

[illegible]

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

[illegible]

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



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NO. JEMBATAN

:

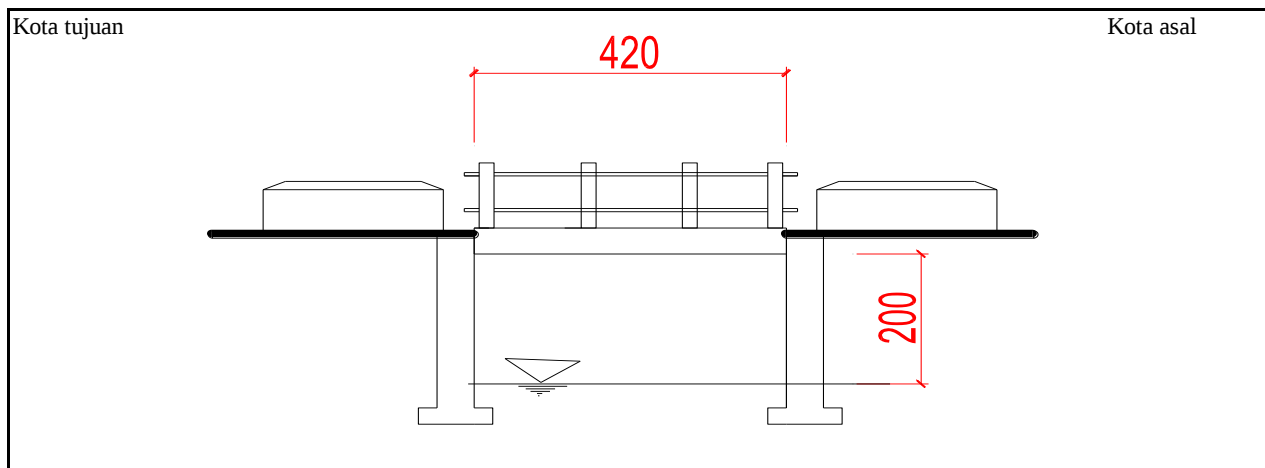
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NAMA JEMBATAN

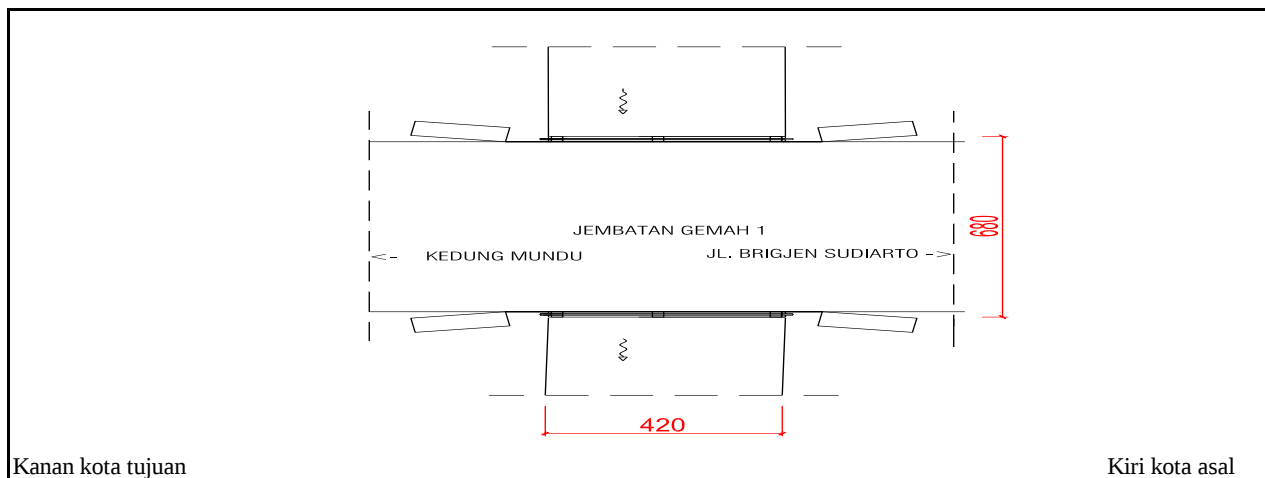
:

GEMAH 1

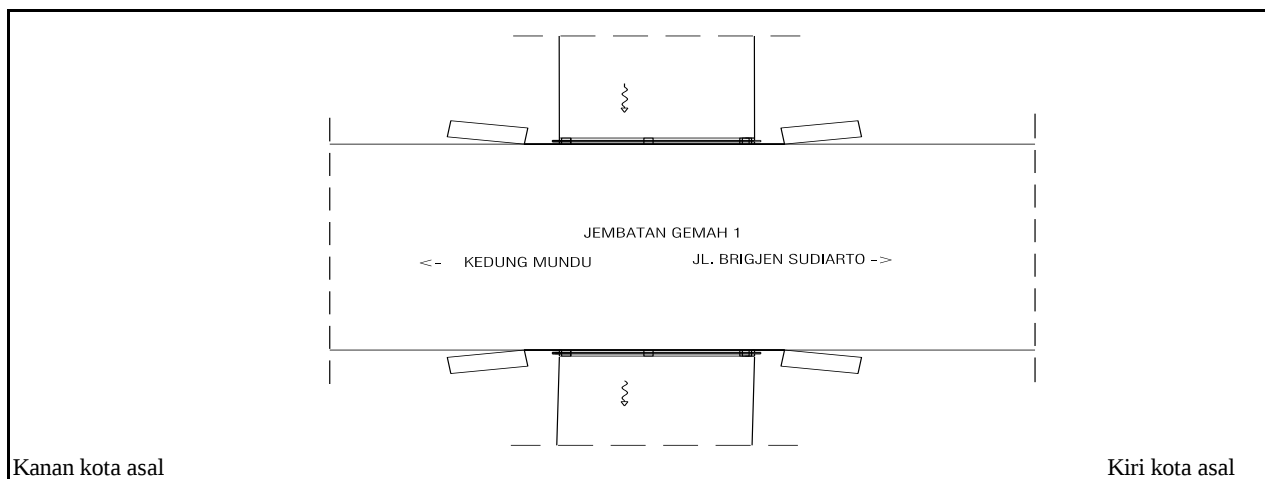
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**





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**TAMPAK MEMANJANG**



**TAMPAK MEMANJANG**



**TAMPAK MELINTANG**



**TAMPAK MELINTANG**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.06.0009.001 | GEMAH 1       | 0+000       | 4.20        |

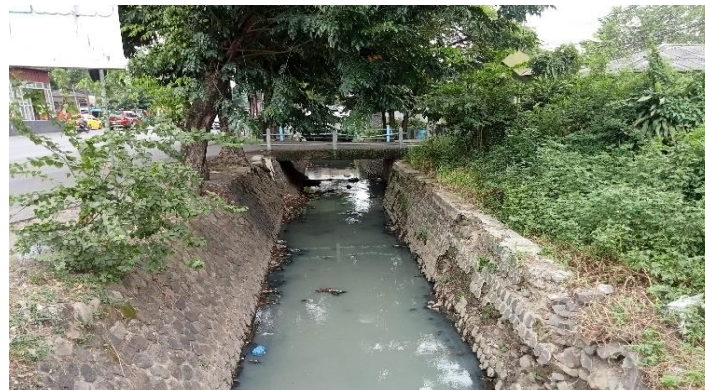


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**KONDISI BANGUNAN BAWAH**



**KONDISI ALIRAN SUNGAI**



**KONDISI SANDARAN**



**KONDISI LANTAI**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.06.0009.001 | GEMAH 1       | 0+000       | 4.20        |



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---

**FORM DETAIL JEMBATAN**  
**Ruas Jalan**  
**GEMAH**

**NO JEMBATAN : KT.33.074.06.0009.001**  
**NAMA JEMBATAN : GEMAH 1**  
**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 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                 |                                        |           |     |            |    |                                      |  |
|---------------------------------|----------------------------------------|-----------|-----|------------|----|--------------------------------------|--|
| Nama Jembatan                   | GEMAH 1                                |           |     |            |    | Propinsi / Kabupaten / Kota Semarang |  |
| Lokasi Jembatan                 | Koordinat Awal :                       | -7.009681 | LS  | 110.467471 | BT | Dari (Kota Asal/Km.NoI) : SMG        |  |
|                                 | Koordinat Akhir :                      | -7.009681 | LS  | 110.467471 | BT | Km. (Jarak dari kota asal) : 0+000   |  |
| Tanggal Pemeriksaan<br>9/3/2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |           |     |            |    | Tahun Pembangunan                    |  |
|                                 |                                        |           |     |            |    | -                                    |  |
| Nilai Traffic :                 | 0,196107                               | LHR :     | 826 | Tahun :    |    | 2019                                 |  |

### USULAN PEMERIKSAAN KHUSUS

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

Elemen elemen yang memerlukan Pemeriksaan Khusus

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

### TINDAKAN DARURAT

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

Elemen elemen yang memerlukan Tindakan Darurat

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

Hanya untuk keperluan kantor

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Tanggal memasukkan Data Pemeriksaan Inventarisasi<br>14/3/2024 | Oleh :<br>WAHYU DWI S |
|----------------------------------------------------------------|-----------------------|

LAPORAN PEMERIKSAAN MENDETAIL JEMBATAN

DAFTAR KERUSAKAN UNTUK LEVEL 3-5

|              |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. Jembatan | KT | 3 | 3 | 0 | 7 | 4 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

EVALUASI ELEMEN

| Elemen | Kode           | Uraian Level 2<br>(pilihan) | Elemen                                | Kode  | Uraian Level 3<br>(pilihan)                                             | Elemen | Kode | Uraian<br>(pilihan) | Lokasi | Level 5       |   |   |   |   |   |   |   |   |    | Level 4       |   |   |   |   |    |
|--------|----------------|-----------------------------|---------------------------------------|-------|-------------------------------------------------------------------------|--------|------|---------------------|--------|---------------|---|---|---|---|---|---|---|---|----|---------------|---|---|---|---|----|
|        |                |                             |                                       |       |                                                                         |        |      |                     |        | Nilai Kondisi |   |   |   |   |   |   |   |   |    | Nilai Kondisi |   |   |   |   |    |
|        |                |                             |                                       |       |                                                                         |        |      |                     |        | 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 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 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                                                   |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.132 | Tanah 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 | 1  |
|        |                |                             |                                       | 4.212 | aliran air utama                                                        |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.213 | daerah gerangan banjir                                                  |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.221 | Pengaman Aliran Sungai                                                  |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                | 3.220                       | Bangunan Pengaman                     | 4.222 | Pengaman Tebing Sungai                                                  |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.223 | Pengaman Bangunan Bawah                                                 |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.224 | Perkuatan bangunan Pengaman                                             |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.225 | Perkuatan bangunan Pengaman                                             |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
| 2.300  | Bangunan Bawah | 3.310                       | Pondasi                               | 4.311 | Fondasi Tiang                                                           |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.312 | Fondasi Sumuran                                                         |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.313 | Fondasi Langsung                                                        |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.314 | Pondasi Balok Pelengkung                                                |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.315 | Sambungan Fondasi dan Lantai                                            |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.316 | Perkuatan Fondasi                                                       |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.317 | Struktur jembatan apung                                                 |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                | 3.320                       | Kepala Jembatan/Pilar                 | 4.321 | Balok Fondasi                                                           |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.322 | Dinding kepala jembatan / pilar                                         |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.323 | Balok Kepala Jembatan/Pilar                                             |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.324 | Struktur pengaku                                                        |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.325 | Sambungan kepala jembatan / pilar                                       |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.326 | Perkuatan bangunan bawah                                                |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.327 | Drainase Kepala jembatan / pilar                                        |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.328 | Drainase Kepala jembatan / pilar                                        |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.329 | Drainase Kepala jembatan / pilar                                        |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
| 2.400  | Bangunan Atas  | 3.410                       | Sistem Gelagar                        | 4.411 | Gelagar utama                                                           |        |      |                     |        |               |   |   |   | 0 | 1 | 0 | 0 | 0 | 1  | 0             | 1 | 0 | 0 | 0 | 1  |
|        |                |                             |                                       | 4.412 | Diaphragma                                                              |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 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                                                   |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.422 | Pelat beton pracetak                                                    |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.423 | Kabel prategang melintang                                               |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.424 | Shear key (sambungan antar pelat beton pracetak pratekan - flat slab. ) |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.425 | Perkuatan Jembatan Pelat                                                |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.426 | Drainase Jembatan Pelat                                                 |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                | 3.430                       | Pelengkung                            | 4.431 | Pelengkung                                                              |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.432 | Dinding pelengkung                                                      |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.433 | Perkuatan pelengkung                                                    |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.434 | Drainase Pelengkung                                                     |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                | 3.440                       | Balok Pelengkung                      | 4.441 | balok pelengkung                                                        |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |
|        |                |                             |                                       | 4.442 | Pengaku Balok Pelengkung                                                |        |      |                     |        |               |   |   |   |   |   |   |   |   |    |               |   |   |   |   |    |

| LEVEL 3 |                                             | Nilai Kondisi |   |   |   |   |    |
|---------|---------------------------------------------|---------------|---|---|---|---|----|
| Kode    | Elemen                                      | S             | R | K | F | P | NK |
| 3.110   | Perkerasan Jalan Pendekat                   | 0             | 1 | 0 | 0 | 0 | 1  |
| 3.120   | Tanah Timbunan                              |               |   |   |   |   | -  |
| 3.130   | Struktur Penahan Tanah Jalan Pendekat       | 0             | 1 | 0 | 0 | 0 | 1  |
| 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 | 0 | 1  |
| 3.320   | Kepala Jembatan/Pilar                       | 0             | 1 | 0 | 0 | 0 | 1  |
| 3.410   | Sistem Gelagar                              | 0             | 1 | 0 | 0 | 0 | 1  |
| 3.420   | Jembatan Pelat                              |               |   |   |   |   | -  |
| 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                               |               |   |   |   |   | -  |
| 3.600   | Sambungan / Siar muai                       |               |   |   |   |   | -  |
| 3.610   | Perletakan                                  |               |   |   |   |   | -  |
| 3.620   | Pengaman Pengguna Jalan                     |               |   |   |   |   | -  |
| 3.630   | Perlengkapan Aerodinamik Jembatan           |               |   |   |   |   | -  |
| 3.710   | Perlengkapan Umum                           |               |   |   |   |   | -  |
| 3.720   | Penerangan                                  |               |   |   |   |   | -  |
| 3.730   | Utilitas                                    |               |   |   |   |   | -  |
| 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 | 0 | 1  |
| 2.400   | Bangunan Atas           | 0             | 1 | 0 | 0 | 0 | 1  |
| 2.700   | Perlengkapan            |               |   |   |   |   | -  |
| 2.800   | Gorong-gorong           |               |   |   |   |   | -  |
| 2.900   | Struktur Lintasan Basah |               |   |   |   |   | -  |

| LEVEL 1 |  | Nilai Kondisi |
|---------|--|---------------|
|---------|--|---------------|

| 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) |        |   | Nilai Kondisi |   |   |   |   | Nilai Kondisi |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   |        |                                                        |           |                  | A/P/B  | X | Y             | Z | S | R | K | F             | P | NK | S | R | K | F | P | NK |  |
|        |                                   |        |                                                   | 4.443  | Sambungan Balok Pelengkung                             |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.444  | Balok Pelengkung Rangka Baja                           |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.445  | Pengantun Rangka Baja                                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.446  | Perkuatan Balok Pelengkung                             |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.447  | Drainase Balok Pelengkung                              |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.451  | Rangka Jembatan Panel                                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.451  | Rangka Jembatan Panel                                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.452  | Sambungan Rangka Jembatan Panel                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.453  | Struktur Rangka                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.454  | Pengaku Rangka                                         |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.455  | Sambungan Rangka Baja                             |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.456  | Perkuatan Jembatan Rangka                         |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.457  | Drainase Rangka                                   |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Jembatan - Beruji - Kabel (Cable-stayed)          | 4.461  | Sistem Kabel Jembatan-Beruji-Kabel                     |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.462  | Sistem Penahan Kabel Jembatan-beruji-kabel             |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.463  | Gelagar Melintang Jembatan Beruji Kabel (Cable stayed) |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.464  | Perkuatan Jembatan Beruji Kabel (Cable stayed)         |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.471  | Sistem Kabel Jembatan Gantung                          |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Jembatan Gantung                                  | 4.472  | Batang Penggantun Jembatan Gantung                     |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.473  | Pengaku Jembatan Gantung                               |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.474  | Sistem penahan Kabel Jembatan Gantung                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.475  | Perkuatan Jembatan Gantung                             |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.486  | sadel pylon                                            |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.487  | balok melintang                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.488  | ikatan angin bawah                                     |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.489  | gantun/ sambungan                                      |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.481  | Struktur Pilon                                         |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Pilon                                             | 4.482  | Penahan Kabel di Pilon                                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.483  | pilon Baja                                             |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.484  | Sambungan Pilon Baja                                   |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.485  | Perkuatan Pilon                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.486  | Drainase pilon                                         |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.491  | Struktur Gelagar Boks                                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Gelagar Boks                                      | 4.492  | Pengaku gelagar boks                                   |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.493  | Sambungan Gelagar Boks                                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.494  | Prategang Eksternal dalam gelagar boks                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.495  | Perkuatan gelagar boks                                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.496  | Drainase Gelagar Boks                                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Sistem Lantai                                     | 4.511  | Struktur Lantai                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.512  | Pervangga Sistem Lantai                                |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.513  | Trotoar dan kerb                                       |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.514  | Lapis Permukaan Sistem Lantai                          |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.515  | Perkuatan Sistem Lantai                                |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.516  | Link Slab                                              |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.517  | Drainase Lantai                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Sambungan/Siar Muai                               | 4.601  | Sambungan/Siar Muai Baja (tipe ganda)                  |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.602  | Sambungan/Siar Muai Baja Siku Profil Terbuka           |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        | Landasan/Perletakan                               | 4.611  | Landasan                                               |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.612  | Peredam Pasif/Damping Struktur                         |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.613  | Peredam Aktif Struktur                                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
| 4.614  | Pendukung landasan                |        |                                                   |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
| 4.615  | Penahan pergerakan landasan       |        |                                                   |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
| 4.616  | Ikatan / Perletakan Lainnya       |        |                                                   |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        | Pengaman Pengguna Jalan           | 4.621  | Struktur Sandaran Railing                         |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.622  | Struktur tembok                                   |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.623  | Pembatas lainnya                                  |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        | Perlengkapan Aerodinamik Jembatan | 4.631  | Perlengkapan Aerodinamik Bangunan Atas            |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.632  | Perlengkapan Aerodinamik Permukaan Kabel Jembatan |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.633  | Wind Barrier                                      |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
| 2.700  | Perlengkapan                      | 3.710  | Perlengkapan Umum                                 | 4.711  | Perangkat Pengendali Lalu Lintas                       |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.712  | Penanda Jembatan                                       |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.713  | Pemuniang Perlengkapan                                 |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.714  | Struktur Penutup Jembatan                              |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   |        |                                                   | 4.715  | Pendukung sandaran / median                            |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.721  | Sistem penerangan                                 |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.721  | Sistem penerangan                                 |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.721  | Sistem penerangan                                 |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.721  | Sistem penerangan                                 |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |
|        |                                   | 4.721  | Sistem penerangan                                 |        |                                                        |           |                  |        |   |               |   |   |   |   |               |   |    |   |   |   |   |   |    |  |

| LEVEL 3 |        |  |  |  |  |  |  |  |  | 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) | Nilai Kondisi |   |         |   |   | Nilai Kondisi |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               |        |                                                    |           |                  | A/P/B         | X | Y       | Z | S | R             | K | F       | P | NK | S | R | K | F | P | NK |  |  |  |  |
|        |                          | 3,730  | Utilitas                                      | 4,722  | Struktur Tiang Pengaman                            |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,723  | Pemungut Penerangan                                |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,731  | Utilitas Kabel Listrik                             |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,732  | Utilitas Pipa Air Minum                            |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,733  | Utilitas Kabel Telekomunikasi                      |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 7,734  | Utilitas Pipa Air Kotor                            |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,735  | Utilitas Pipa Pembawa Bahan Enerat lainnya         |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 7,736  | Sambungan utilitas                                 |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,737  | Dudukan utilitas                                   |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,740  | Pengaman Struktur dan Jalan Lingkungan        | 4,741  | Perangkat Pengendali Kelembaban                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,742  | Perangkat Penangkal Petir                          |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,743  | Perangkat Perlindungan Korosi dan Biota Laut       |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,744  | Lubang Ventilasi                                   |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,745  | Penutup Lubang 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  | Pendukung lainnya                                  |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,760  | Perlengkapan Jembatan Gerak / moveable bridge | 4,755  | Perangkat Pemalut Data                             |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,761  | Sistem penggerak fungsional                        |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,762  | Sistem Elektrik                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,763  | Sistem Hidrolik                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,770  | Fasilitas Pemeriksaan Tetap                   | 4,764  | Sistem Mekanis                                     |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 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 pengikat Fondasi / Pelat Beton    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        | Gorong - gorong Pelengkung Baja Gelombang     | 4,843  | Dudukan Pelengkung Baja Gelombang                  |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,844  | Drainase Gorong gorong Pelengkung Baja Bergeombang |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,851  | Tembok Sayap                                       |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,852  | Tembok Kepala (Head wall) Gorong-gorong            |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,850  | Struktur Pendukung Gorong - gorong            | 4,853  | Tembok Bawah (Drop wall) Gorong-gorong             |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,854  | Apron                                              |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,861  | Perkuatan dengan Lapisan Beton Tambahan            |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               | 4,862  | Perkuatan dengan FRP                               |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,860  | Perkuatan Gorong - gorong                     | 4,863  | Perkuatan dengan Lapisan Baja Tambahan             |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          |        |                                               |        |                                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
| 2.900  | Struktur Lintasan B      | 3,910  | Lintasan dengan Perkerasan                    |        |                                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,920  | Lintasan Alam (tanpa perkerasan)              |        |                                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |
|        |                          | 3,930  | Lintasan dengan struktur semi - permanen      |        |                                                    |           |                  |               |   |         |   |   |               |   |         |   |    |   |   |   |   |   |    |  |  |  |  |

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



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

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

**NO. JEMBATAN**

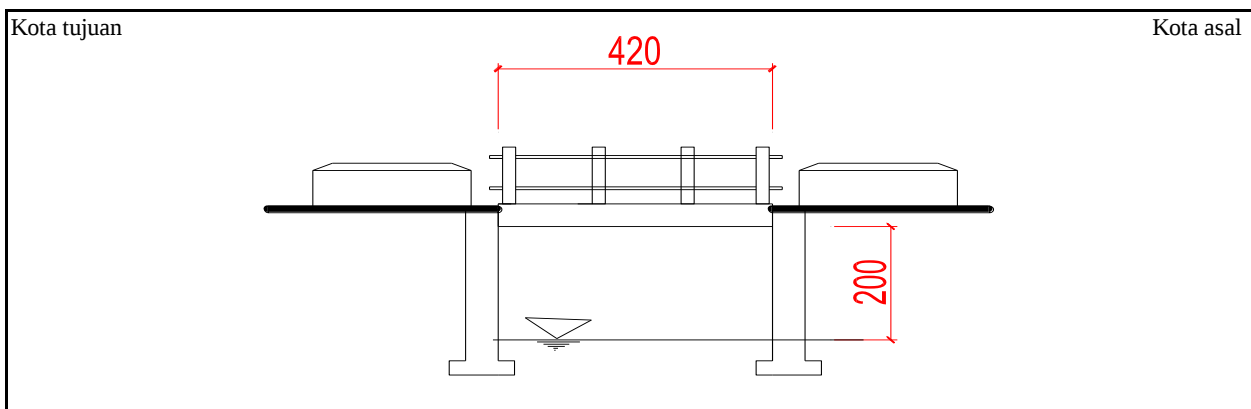
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|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 1 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

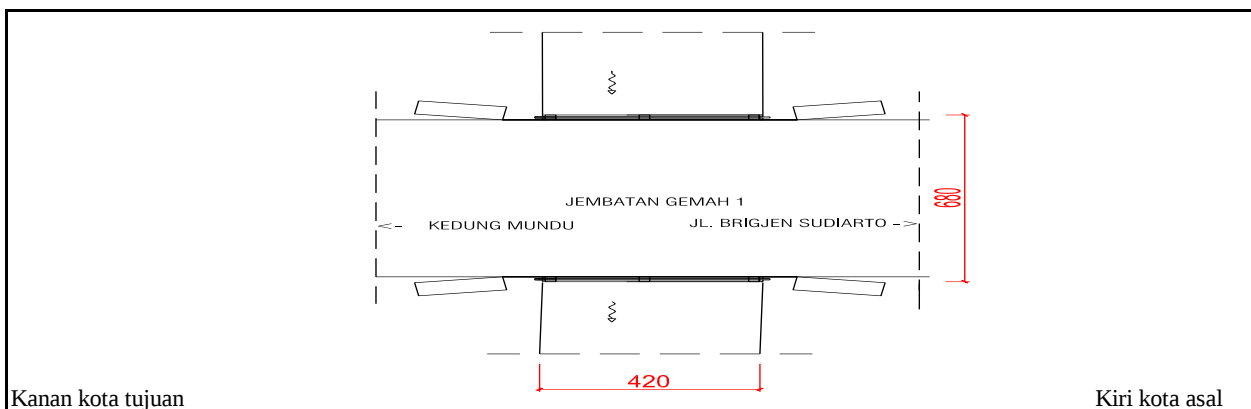
**NAMA JEMBATAN**

: GEMAH 1

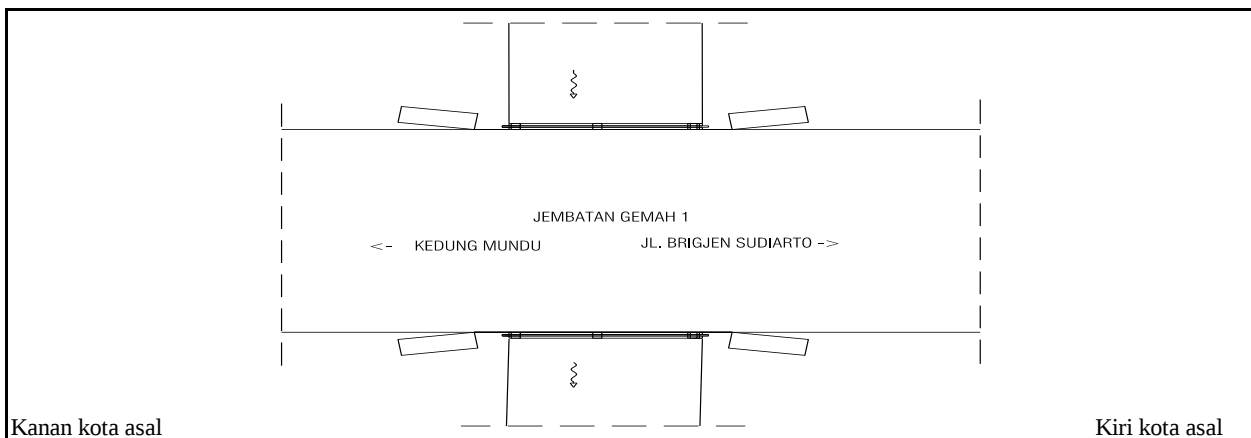
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**





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

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**TAMPAK MEMANJANG**



**TAMPAK MEMANJANG**



**TAMPAK MELINTANG**



**TAMPAK MELINTANG**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.06.0009.001 | GEMAH 1       | 0+000       | 4.20        |



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

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**KONDISI BANGUNAN BAWAH**



**KONDISI ALIRAN SUNGAI**



**KONDISI SANDARAN**



**KONDISI LANTAI**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.06.0009.001 | GEMAH 1       | 0+000       | 4.20        |