



**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**  
**MH THAMRIN**

**NO JEMBATAN : KT.33.074.01.0058.001**  
**NAMA JEMBATAN : MH THAMRIN 1**  
**TAHUN ANGGARAN : 2024**



**PEMERINTAH KOTA SEMARANG**  
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SISTEM  
MANAJEMEN  
JEMBATAN



## LAPORAN PEMERIKSAAN INVENTARISASI JEMBATAN

No. Jembatan Ruas Jalan Kabupaten  
dan Kota

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 1 | 0 | 0 | 5 | 8 | 0 | 0 | 1 |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

|                                   |                                        |              |    |             |                                         |                                    |
|-----------------------------------|----------------------------------------|--------------|----|-------------|-----------------------------------------|------------------------------------|
| Nama Jembatan                     | MH THAMRIN 1                           |              |    |             | Propinsi / Kabupaten / Kota<br>Semarang |                                    |
| Lokasi Jembatan                   | Koordinat Awal :                       | -6,9820350   | LS | 110,4175460 | BT                                      | Dari (Kota Asal/Km.Nol) : SMG      |
|                                   | Koordinat Akhir :                      | -6,9820350   | LS | 110,4175460 | BT                                      | Km. (Jarak dari kota asal) : 0+470 |
| Tanggal Pemeriksaan<br>24/03/2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |              |    |             |                                         | Tahun Pembangunan<br>2007          |
| Nilai Lalu - Lintas :             | 0.686792                               | LHR : 3037.1 |    |             | Tahun : 2019                            |                                    |

### INFORMASI PEMBANGUNAN JEMBATAN

|    |                                                                                                |                  |                |
|----|------------------------------------------------------------------------------------------------|------------------|----------------|
| 1  | Tanggal / Bulan / Tahun pembangunan jembatan / pengoperasian pertama kali                      | :                | 2007           |
| 2  | Tanggal / Bulan / Tahun pelebaran/rehabilitasi/perkuatan jembatan / pengoperasian pertama kali | :                | -              |
| 3  | Tanggal / Bulan / Tahun serah terima aset                                                      | :                | 2007           |
| 4  | Penanggung jawab pembangunan (Satker/PPK)                                                      | :                | -              |
| 5  | Penanggung jawab pelebaran/rehabilitasi/perkuatan jembatan (Satker/PPK)                        | :                | -              |
| 6  | Biaya perencanaan                                                                              | :                | -              |
| 7  | Biaya pembangunan                                                                              | :                | Rp 469.807.000 |
| 8  | Biaya pelebaran/rehabilitasi/perkuatan jembatan                                                | :                | -              |
| 9  | Biaya pengujian                                                                                | :                | -              |
| 10 | Nilai aset serah terima                                                                        | :                | -              |
| 11 | Nama konsultan perencanaan pembangunan                                                         | :                | -              |
| 12 | Nama <i>Independent Proof Checker</i> (IPC)                                                    | :                | -              |
| 13 | Nama konsultan perencanaan 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 | As-built-drawing atau denah jembatan                                                           | :                | TIDAK          |

Hanya untuk keperluan kantor

Tanggal memasukkan Data Pemeriksaan Inventarisasi

05/04/2023

Oleh :

WAHYU DWIS

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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             | : | TRUK      |       |
| 4 Tindakan darurat yang sedang/ pernah dilakukan di atas jembatan    | : | E         |       |
| 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 |   | <b>Ya</b> | tidak |
| 6 Panjang jarak tambahan yang harus ditempuh dengan jalan memutar    |   | 450       | m     |

**INFORMASI KAPASITAS LALU LINTAS**

|                                                                                                                                                     |   |          |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|---|
| 1 Lalu - lintas harian rata-rata tahunan (LHR) AADT                                                                                                 | : | 3037,14  |   |
| 2 Nilai Lalu - Lintas (Perbandingan lebar jalur lalu-lintas yang tersedia di atas jembatan dengan lebar perkerasan sebelum masuk ke dalam jembatan) |   |          |   |
| Longgar kendaraan bebas melintas di atas jembatan                                                                                                   |   | <b>0</b> |   |
| 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> )                                                                          | : | 2,4      | m |

**INFORMASI BATASAN PERLINTASAN DAN LINGKUNGAN**

|                                                                                                                 |   |     |   |
|-----------------------------------------------------------------------------------------------------------------|---|-----|---|
| 1 Tinggi muka air banjir terhadap bagian atas lantai jembatan                                                   | : | 2   | m |
| 2 Tinggi muka air banjir terhadap elevasi perletakan jembatan                                                   | : | -   | m |
| 3 Tinggi muka air banjir terhadap elevasi terbawah bangunan atas jembatan                                       | : | 1,7 | 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**

| Type Lintasan               | JN (jalan)                                          | SL (sungai lurus) | SM (sungai meander)               | SB (sungai berjalir)          | 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                           |                                |                                         |
| A                           | gorong-gorong pelengkung                            | M                 | Pasangan batu                     | W                             | Darurat                | B                                                                                                                                                                           | Belanda (tipe baru)   | TP                   | Tiang Pancang                      |                                |                                         |
| 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                         | K                              | Kepala jembatan khusus                  |
| G                           | gelagar                                             | D                 | Beton tak bertulang               | F                             | Apung                  | J                                                                                                                                                                           | Jepang                | SU                   | Sumuran                            |                                |                                         |
| M                           | gelagar komposit                                    | T                 | Beton bertulang                   |                               |                        | R                                                                                                                                                                           | Austria               | LL                   | Lain-lain                          |                                |                                         |
| O                           | Gelagar Boks                                        | P                 | Beton pratekan                    |                               |                        | E                                                                                                                                                                           | Spanyol               | U                    | Callender Hamilton<br>(UK/Inggris) |                                |                                         |
| Q                           | Gelagar tipe U                                      | B                 | Baja                              |                               |                        | W                                                                                                                                                                           | Acrow/Bailey          |                      | A                                  | Tipe A                         |                                         |
| L                           | balok pelengkung                                    | U                 | Pelat baja gelombang              |                               |                        | D                                                                                                                                                                           | Tipe Diamond          | H                    | Tipe H                             |                                |                                         |
| E                           | pelengkung                                          | Y                 | Komposit Baja - beton             |                               |                        | I                                                                                                                                                                           | Tipe Tunggal / I      | Y                    | Tipe Y                             |                                |                                         |
|                             |                                                     | J                 | Alumunium                         |                               |                        | V                                                                                                                                                                           | Tipe V terbuka        | W                    | Tipe Double I                      |                                |                                         |
|                             |                                                     | E                 | Neoprene / karet                  |                               |                        | <b>Catatan :</b><br>Untuk prosedur jembatan,<br>apabila diketahui pasti, dari<br>pemeriksaan detail dapat<br>dituliskan atau diganti<br>dengan sifat apabila tidak<br>pasti |                       |                      |                                    |                                |                                         |
| D                           | Flat Slab                                           | F                 | Teflon                            |                               |                        |                                                                                                                                                                             |                       |                      |                                    |                                |                                         |
| V                           | Voided Slab                                         | V                 | PVC                               |                               |                        |                                                                                                                                                                             |                       |                      |                                    |                                |                                         |
| R                           | rangka                                              | N                 | geotextile                        |                               |                        |                                                                                                                                                                             |                       |                      |                                    |                                |                                         |
| P                           | Pelat                                               | O                 | Tanah biasa/lempung atau timbunan |                               |                        |                                                                                                                                                                             |                       |                      |                                    | Tiang Sandaran                 |                                         |
|                             |                                                     | A                 | Aspal                             |                               |                        |                                                                                                                                                                             |                       |                      |                                    | TB                             | tiang beton sandaran baja               |
| F                           | ferry                                               | R                 | kerikil/pasir                     |                               |                        |                                                                                                                                                                             |                       |                      |                                    | BB                             | tiang baja sandaran baja                |
| K                           | lintasan kereta api                                 | W                 | Macadam                           |                               |                        |                                                                                                                                                                             |                       |                      |                                    | DB                             | dinding bagian bawah +<br>sandaran baja |
|                             |                                                     |                   |                                   |                               |                        |                                                                                                                                                                             |                       |                      |                                    | DD                             | Sandaran/Median beton<br>bertulang      |
| W                           | lintasan basah                                      | X                 | Bahan asli                        |                               |                        |                                                                                                                                                                             |                       |                      |                                    | KK                             | tiang kayu sandaran kayu                |
| U                           | lain-lain                                           | L                 | Lain-lain                         |                               |                        |                                                                                                                                                                             |                       |                      |                                    |                                |                                         |



## Sistem Manajemen Jembatan

|                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |    |    |    |     |    |   |                  |  |   |                     |  |      |                          |  |      |
|--------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|----|----|----|-----|----|---|------------------|--|---|---------------------|--|------|--------------------------|--|------|
| Nama Jembatan :                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | MH THAMRIN I |    |    |    |     |    |   |                  |  |   |                     |  |      |                          |  |      |
| 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) : |  | 7,50 | Bentang Terpanjang (m) : |  | 7,50 |

[illegible]

| 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 Lalu Lintas (3.140) |  |  |  |
|                                                                                                                                                           | TIPE            | BHN | TIPE | BHN | Kode (L4)                     | BHN | BHN | Kode (L4)             | BHN                              | Kode (L4)                 | BHN | Kode (L4)              | BHN                   | Kode (L4) | BHN | Kode (L4) | BHN                       | Kode (L4) | BHN | Kode (L4) | BHN                               | Kode (L4)          | BHN | Kode (L4) | BHN                    | Kode (L4) | BHN | Kode (L4) | BHN                                           |  |  |  |                              |  |  |  |
| Kepala Jbt. A1                                                                                                                                            | TP              | T   | B    | T   | -                             | -   | M   | 4.222, 4.221          | M                                | 4.111                     | A   | -                      | -                     | -         | -   | -         | -                         | -         | -   | -         | -                                 | -                  | -   | -         | -                      | -         | -   | -         | -                                             |  |  |  |                              |  |  |  |
| P I L A R                                                                                                                                                 |                 |     |      |     |                               |     |     |                       |                                  |                           |     |                        |                       |           |     |           |                           |           |     |           |                                   |                    |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |
|                                                                                                                                                           |                 |     |      |     |                               |     |     |                       |                                  |                           |     |                        |                       |           |     |           |                           |           |     |           |                                   |                    |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |
|                                                                                                                                                           |                 |     |      |     |                               |     |     |                       |                                  |                           |     |                        |                       |           |     |           |                           |           |     |           |                                   |                    |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |
|                                                                                                                                                           |                 |     |      |     |                               |     |     |                       |                                  |                           |     |                        |                       |           |     |           |                           |           |     |           |                                   |                    |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |
|                                                                                                                                                           |                 |     |      |     |                               |     |     |                       |                                  |                           |     |                        |                       |           |     |           |                           |           |     |           |                                   |                    |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |
| Kepala Jbt A.2                                                                                                                                            | TP              | T   | B    | T   | -                             | -   | M   | 4.222, 4.221          | M                                | 4111                      | A   | -                      | -                     | -         | -   | -         | -                         | -         | -   | -         | -                                 | -                  | -   | -         | -                      | -         | -   | -         |                                               |  |  |  |                              |  |  |  |
| Catatan :<br>Pengisian disesuaikan dengan kode elemen dan kode laporan inventarisasi<br>L4 adalah elemen pada level 4<br>(*) adalah jembatan tipe gelagar |                 |     |      |     |                               |     |     |                       |                                  | Bangunan Bawah<br>Pondasi |     |                        |                       |           |     |           |                           |           |     | =<br>=    |                                   | 1 NILAI<br>1 NILAI |     |           |                        |           |     |           |                                               |  |  |  |                              |  |  |  |



|                           |  |
|---------------------------|--|
| Sistem Manajemen Jembatan |  |
|---------------------------|--|

|                                                  |  |  |  |  |  |  |  |  |  |    |    |    |              |     |    |   |                  |   |                     |      |                          |      |
|--------------------------------------------------|--|--|--|--|--|--|--|--|--|----|----|----|--------------|-----|----|---|------------------|---|---------------------|------|--------------------------|------|
| Nama Jembatan :                                  |  |  |  |  |  |  |  |  |  |    |    |    | MH THAMRIN 1 |     |    |   |                  |   |                     |      |                          |      |
| 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) : | 7,50 | Bentang Terpanjang (m) : | 7,50 |

[illegible]

| Bangunan Bawah (2.300)                                                                                                                                    |                  |      |                               |      |                          |           | Aliran Sungai (2.200) |                           |           | Jalan Pendekat (2.100)            |           |                        |           |                                               |           |                                |           |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------------------|------|--------------------------|-----------|-----------------------|---------------------------|-----------|-----------------------------------|-----------|------------------------|-----------|-----------------------------------------------|-----------|--------------------------------|-----------|-----|
| No. Kepala Jembatan / Pilar                                                                                                                               | Fondasi ((3.910) |      | Kepala Jembatan/Pilar (3.320) |      | Perkuatan Bangunan Bawah |           | Tebing Sungai (4.211) | Bangunan Pengaman (3.220) |           | Perkerasan Jalan Pendekat (3.110) |           | Tanah Timbunan (3.120) |           | Struktur Penahan Tanah Jalan Pendekat (3.130) |           | Pengaman Lalu - Lintas (3.140) |           |     |
|                                                                                                                                                           | Kepala Jbt. A1   | TIPE | BHN                           | TIPE | BHN                      | Kode (L4) | BHN                   | BHN                       | Kode (L4) | BHN                               | Kode (L4) | BHN                    | Kode (L4) | BHN                                           | Kode (L4) | BHN                            | Kode (L4) | BHN |
| P I L A R                                                                                                                                                 |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
|                                                                                                                                                           |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
|                                                                                                                                                           |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
|                                                                                                                                                           |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
|                                                                                                                                                           |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
|                                                                                                                                                           |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
| Kepala Jbt A.2                                                                                                                                            |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |
| Catatan :<br>Pengisian disesuaikan dengan kode elemen dan kode laporan inventarisasi<br>L4 adalah elemen pada level 4<br>(*) adalah jembatan tipe gelagar |                  |      |                               |      |                          |           |                       |                           |           |                                   |           |                        |           |                                               |           |                                |           |     |



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**NO. JEMBATAN**

:

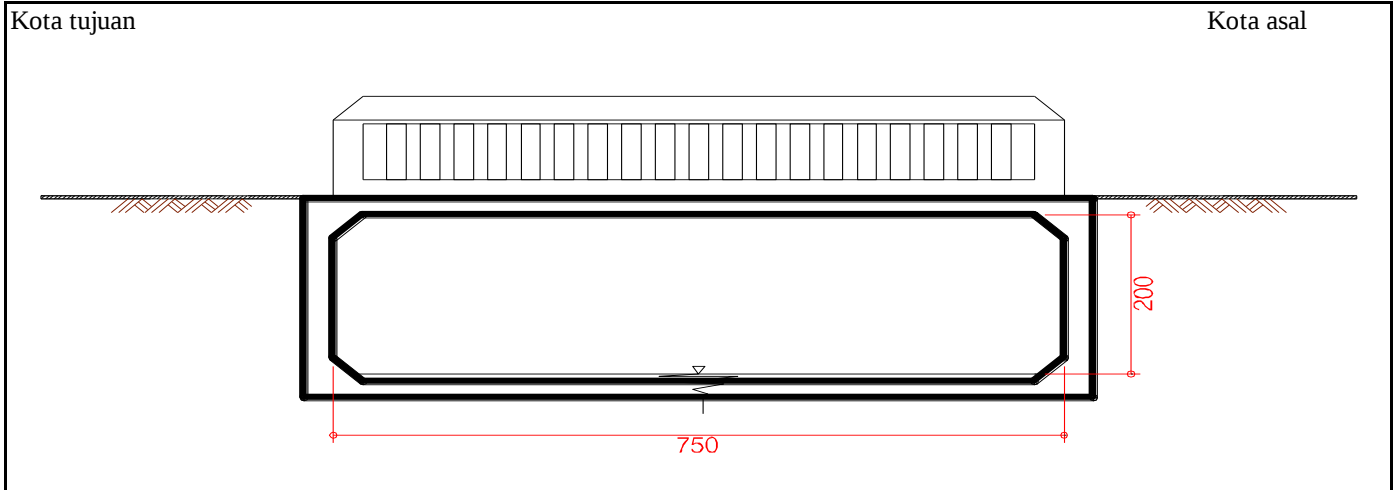
|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 1 | 0 | 0 | 5 | 8 | 0 | 0 | 1 |  |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

**NAMA JEMBATAN**

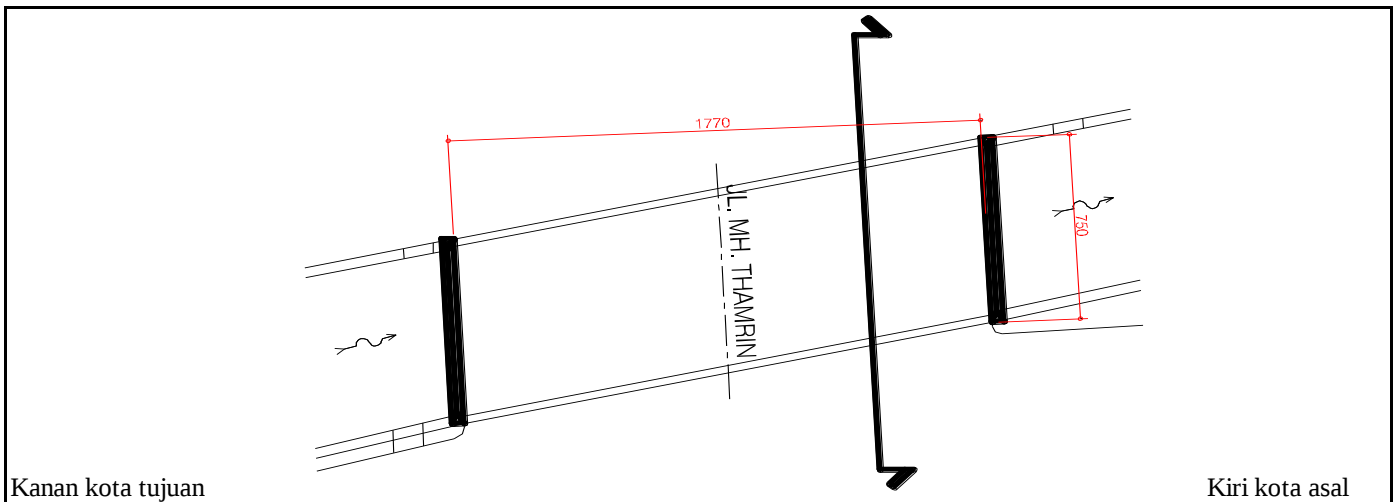
:

MH THAMRIN 1

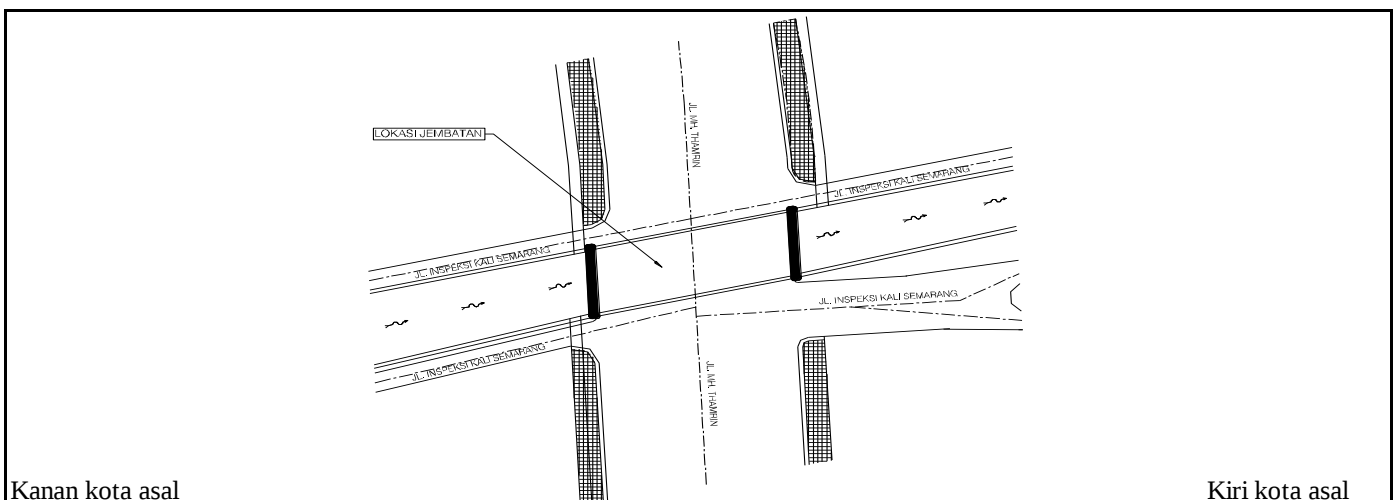
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**



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

**TAMPAK MEMANJANG****TAMPAK MEMANJANG****TAMPAK MELINTANG****TAMPAK MELINTANG**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.01.0058.001 | MH THAMRIN 1  | 0+470       | 7,50        |



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

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



**PELAT JEMBATAN KEROPOS DAN RONTOK**



**SANDARAN JEMBATAN RETAK**



**UTILITAS PIPA BERKARAT**



**KONDISI BANGUNAN BAWAH JEMBATAN**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.01.0058.001 | MH THAMRIN 1  | 0+470       | 7,50        |



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

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

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**FORM DETAIL JEMBATAN**  
**Ruas Jalan**  
**MH THAMRIN**

**NO JEMBATAN : KT.33.074.01.0058.001**  
**NAMA JEMBATAN : MH THAMRIN 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 DETAIL JEMBATAN

No. Jembatan Ruas Jalan Kabupaten  
dan Kota

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 1 | 0 | 0 | 5 | 8 | 0 | 0 | 1 | 0 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                                      |                                        |           |         |              |    |                                         |  |
|--------------------------------------|----------------------------------------|-----------|---------|--------------|----|-----------------------------------------|--|
| Nama Jembatan                        | MH THAMRIN 1                           |           |         |              |    | Propinsi / Kabupaten / Kota<br>Semarang |  |
| Lokasi Jembatan                      | Koordinat Awal :                       | -6,982035 | LS      | 110,417546   | BT | Dari (Kota Asal/Km.NoI) : SMG           |  |
|                                      | Koordinat Akhir :                      | -6,982035 | LS      | 110,417546   | BT | Km. (Jarak dari kota asal) : 0+470      |  |
| Tanggal Pemeriksaan<br>24 March 2024 | Nama Pemeriksa / NIP<br>GENDUT SUMANTO |           |         |              |    | Tahun Pembangunan                       |  |
|                                      |                                        |           |         |              |    | 2007                                    |  |
| Nilai Traffic :                      | 0.686792                               | LHR :     | 3037,14 | Tahun : 2019 |    |                                         |  |

### USULAN PEMERIKSAAN KHUSUS

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

#### Elemen elemen yang memerlukan Pemeriksaan Khusus

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

### TINDAKAN DARURAT

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

#### Elemen elemen yang memerlukan Tindakan Darurat

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

#### Hanya untuk keperluan kantor

|                                                                    |                       |
|--------------------------------------------------------------------|-----------------------|
| Tanggal memasukkan Data Pemeriksaan Inventarisasi<br>05 April 2023 | Oleh :<br>WAHYU DWI S |
|--------------------------------------------------------------------|-----------------------|



LAPORAN PEMERIKSAAN MENDETAIL JEMBATAN

DAFTAR KERUSAKAN UNTUK LEVEL 3-5

|              |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. Jembatan | KT | 3 | 3 | 0 | 7 | 4 | 0 | 1 | 0 | 0 | 5 | 8 | 0 | 0 | 1 |
|--------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

EVALUASI ELEMEN

| Elemen |                                  | Elemen |                                       | Elemen |                                                                         | Kerusakan |                     | Lokasi |   |   | Level 5       |   |   |   |   | Level 4       |   |   |   |   |   |   |
|--------|----------------------------------|--------|---------------------------------------|--------|-------------------------------------------------------------------------|-----------|---------------------|--------|---|---|---------------|---|---|---|---|---------------|---|---|---|---|---|---|
| Kode   | Uraian Level 2<br>(pilihan)      | Kode   | Uraian Level 3<br>(pilihan)           | Kode   | Uraian<br>(pilihan)                                                     | Kode      | Uraian<br>(pilihan) | A/P/B  |   |   | Nilai Kondisi |   |   |   |   | Nilai Kondisi |   |   |   |   |   |   |
|        |                                  |        |                                       |        |                                                                         |           |                     | X      | Y | Z | S             | R | K | F | P | NK            | S | R | K | F | P | N |
| 2.100  | Jalan Pendekat                   | 3.110  | Perkerasan Jalan Pendekat             | 4.111  | Perkerasan Fleksibel Jalan Pendekat                                     |           |                     |        |   |   | 0             | 0 | 0 | 0 | 0 | 0             | 0 | 0 | 0 | 0 | 0 | 0 |
|        |                                  |        |                                       | 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                                                   |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 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                                                           |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 4.212  | aliran air utama                                                        |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 4.213  | daerah genangan banjir                                                  |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  | 3.220  | Bangunan Pengaman                     | 4.221  | pengaman Aliran Sungai                                                  |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 4.222  | Pengaman Tebing Sungai                                                  |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 4.223  | Pengaman Bangunan Bawah                                                 |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
| 4.224  | Perkuatan bangunan Pengaman      |        |                                       |        |                                                                         |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
| 2.300  | Bangunan Bawah                   | 3.310  | Pondasi                               | 4.311  | Fondasi Tiang                                                           |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 4.312  | Fondasi Sumuran                                                         |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.313  | Fondasi Langsung                                                        |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.314  | Pondasi Balok Pelengkung                                                |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.315  | Sambungan Fondasi dan Lainnya                                           |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.316  | Perkuatan Fondasi                                                       |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.317  | Struktur jembatan apung                                                 |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       |        |                                                                         |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  | 3.320  | Kepala Jembatan/Pilar                 | 4.321  | Balok Fondasi                                                           |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 4.322  | Dinding kepala jembatan / pilar                                         |           |                     |        |   |   | 1             | 0 | 0 | 0 | 0 | 1             | 1 | 0 | 0 | 0 | 0 |   |
|        |                                  |        |                                       | 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 |        |                                       |        |                                                                         |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
| 2.400  | Bangunan Atas                    | 3.410  | Sistem Gelagar                        | 4.411  | Gelagar utama                                                           |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 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 pratekan                                           |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |
|        |                                  |        |                                       | 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  | halok pelengkung                                                        |           |                     |        |   |   |               |   |   |   |   |               |   |   |   |   |   |   |

| LEVEL 3 |                                             | Nilai Kondisi |   |   |   |    |
|---------|---------------------------------------------|---------------|---|---|---|----|
| Kode    | Elemen                                      | S             | R | K | F | NK |
| 3.110   | Perkerasan Jalan Pendekat                   | 0             | 0 | 0 | 0 | 0  |
| 3.120   | Tanah Timbunan                              |               |   |   |   | -  |
| 3.130   | Struktur Penahan Tanah Jalan Pendekat       |               |   |   |   | -  |
| 3.140   | Pengaman lalu-lintas                        |               |   |   |   | -  |
| 3.210   | Aliran Sungai                               | 1             | 0 | 0 | 0 | 0  |
| 3.220   | Bangunan Pengaman                           | 1             | 0 | 0 | 0 | 0  |
| 3.310   | Fondasi                                     | 1             | 0 | 0 | 0 | 0  |
| 3.320   | Kepala Jembatan/Pilar                       | 1             | 0 | 0 | 0 | 0  |
| 3.410   | Sistem Gelagar                              |               |   |   |   | -  |
| 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                                | 1             | 0 | 0 | 0 | 0  |
| 3.500   | Sistem Lantai                               | 0             | 0 | 0 | 0 | 0  |
| 3.600   | Sambungan / Siar muai                       |               |   |   |   | -  |
| 3.610   | Perletakan                                  |               |   |   |   | -  |
| 3.620   | Pengaman Pengguna Jalan                     | 1             | 1 | 0 | 0 | 0  |
| 3.630   | Perlengkapan Aerodinamik Jembatan           |               |   |   |   | -  |
| 3.710   | Perlengkapan Umum                           | 0             | 0 | 0 | 0 | 0  |
| 3.720   | Penerangan                                  |               |   |   |   | -  |
| 3.730   | Utilitas                                    | 1             | 1 | 0 | 0 | 0  |
| 3.740   | Pengaman struktur dan lingkungan            |               |   |   |   | -  |
| 3.750   | SMKS (Sistem Monitoring Kesehatan Jembatan) |               |   |   |   | -  |
| 3.760   | Perlengkapan Jembatan Gerak/moveable 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 | NK |
| 2.100   | Jalan Pendekat          | 0             | 0 | 0 | 0 | 0  |
| 2.200   | Aliran Sungai           | 1             | 0 | 0 | 0 | 0  |
| 2.300   | Bangunan Bawah          | 1             | 0 | 0 | 0 | 0  |
| 2.400   | Bangunan Atas           | 1             | 1 | 0 | 0 | 0  |
| 2.700   | Perlengkapan            | 1             | 1 | 0 | 0 | 0  |
| 2.800   | Gorong-gorong           |               |   |   |   | -  |
| 2.900   | Struktur Lintasan Basah |               |   |   |   | -  |

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

| Elemen |                             | Elemen |                                             | Elemen |                                                        | Kerusakan |                                                                                                     | Lokasi        |   | Level 5 |   |   |   |   |               |   | Level 4 |   |   |   |   |   |    |   |
|--------|-----------------------------|--------|---------------------------------------------|--------|--------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|---------------|---|---------|---|---|---|---|---------------|---|---------|---|---|---|---|---|----|---|
| Kode   | Uraian Level 2<br>(pilihan) | Kode   | Uraian Level 3<br>(pilihan)                 | Kode   | Uraian<br>(pilihan)                                    | Kode      | Uraian<br>(pilihan)                                                                                 | Nilai Kondisi |   |         |   |   |   |   | Nilai Kondisi |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             |        |                                                        |           |                                                                                                     | A/P/B         | X | Y       | Z | S | R | K | F             | P | NK      | S | R | K | F | P | NK |   |
|        |                             |        |                                             | 4.442  | Pengaku Balok Pelengkung                               |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.443  | Sambungan Balok Pelengkung                             |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.444  | Balok Pelengkung Rangka Baja                           |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.445  | Penggantung Rangka Baja                                |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.446  | Perkuatan Balok Pelengkung                             |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.447  | Drainase Balok Pelengkung                              |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.450  | Rangka                                      | 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                              |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.460  | Jembatan - Beruji - Kabel<br>(Cable-stayed) | 4.457  | Drainase Rangka                                        |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.461  | Sistem Kabel Jembatan-Beruji-Kabel                     |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.462  | Sistem Penahan Kabel Jembatan-beruji-kabel             |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.463  | Gelagar Melintang Jembatan Beruji Kabel (Cable stayed) |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.470  | Jembatan Gantung                            | 4.464  | Perkuatan Jembatan Beruji Kabel (Cable stayed)         |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.471  | Sistem Kabel Jembatan Gantung                          |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.472  | Batang Penggantung 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  | gantung/ sambungan                                     |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.480  | Pilon                                       | 4.481  | Struktur Pilon                                         |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.482  | Penahan Kabel di Pilon                                 |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.483  | Pilon Baja                                             |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.484  | Sambungan Pilon Baja                                   |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.485  | Perkuatan Pilon                                        |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.486  | Drainase pilon                                         |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.490  | Gelagar Boks                                | 4.491  | Struktur Gelagar Boks                                  | 201       | Cacat pada beton termasuk beton rontok /spalling, keropos, berongga, dan kualitas beton yang rendah |               |   |         |   | 1 | 1 | 0 | 0             | 0 | 2       | 1 | 1 | 0 | 0 | 0 | 2  |   |
|        |                             |        |                                             | 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                                  |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.500  | Sistem Lantai                               | 4.511  | Struktur Lantai                                        |           |                                                                                                     |               |   |         |   | 0 | 0 | 0 | 0             | 0 | 0       | 0 | 0 | 0 | 0 | 0 | 0  | 0 |
|        |                             |        |                                             | 4.512  | Penyangga Sistem Lantai                                |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.513  | Trotoar dan kerb                                       |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.514  | Lapis Permukaan Sistem Lantai                          |           |                                                                                                     |               |   |         |   |   | 0 | 0 | 0             | 0 | 0       | 0 | 0 | 0 | 0 | 0 | 0  | 0 |
|        |                             |        |                                             | 4.515  | Perkuatan Sistem Lantai                                |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.516  | Link Slab                                              |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.517  | Drainase Lantai                                        |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.600  | Sambungan/Siar Muai                         | 4.601  | Sambungan/Siar Muai Baja (tipe gergaji)                |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.602  | Sambungan/Siar Muai Baja Siku Profil Terbuka           |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.610  | 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                            |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.620  | Pengaman Pengguna Jalan                     | 4.621  | Struktur Sandaran Railing                              |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             |        |                                             | 4.622  | Struktur tembok                                        | 202       | Retak (elemen beton)                                                                                |               |   |         |   |   | 1 | 1 | 0             | 0 | 0       | 2 | 1 | 1 | 0 | 0 | 0  | 2 |
|        |                             |        |                                             | 4.623  | Pembatas lainnya                                       |           |                                                                                                     |               |   |         |   |   |   |   |               |   |         |   |   |   |   |   |    |   |
|        |                             | 3.630  | 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                       |           |                                                                                                     |               |   |         |   |   | 0 | 0 | 0             | 0 | 0       | 0 | 0 | 0 | 0 | 0 |    |   |

| LEVEL 3 |          | Nilai<br>Kondisi |   |   |   |   |    |
|---------|----------|------------------|---|---|---|---|----|
| Kode    | Elemen   | S                | R | K | F | P | NK |
| 1,000   | Jembatan | 1                | 0 | 0 | 0 | 0 | 1  |

| Elemen |                             | Elemen                                    |                                               | Elemen |                                                         | Kerusakan |                     | Lokasi |  | Level 5       |   |   |   |   |   |   |   | Level 4       |    |   |   |   |   |   |    |
|--------|-----------------------------|-------------------------------------------|-----------------------------------------------|--------|---------------------------------------------------------|-----------|---------------------|--------|--|---------------|---|---|---|---|---|---|---|---------------|----|---|---|---|---|---|----|
| Kode   | Uraian Level 2<br>(pilihan) | Kode                                      | Uraian Level 3<br>(pilihan)                   | Kode   | Uraian<br>(pilihan)                                     | Kode      | Uraian<br>(pilihan) |        |  | Nilai Kondisi |   |   |   |   |   |   |   | Nilai Kondisi |    |   |   |   |   |   |    |
|        |                             |                                           |                                               |        |                                                         |           |                     |        |  | A/P/B         | X | Y | Z | S | R | K | F | P             | NK | S | R | K | F | P | NK |
|        |                             |                                           |                                               | 4.712  | Penanda Jembatan                                        |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.713  | Penunjang Perlengkapan                                  |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.714  | Struktur Penutup Jembatan                               |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.715  | Pendukung sandaran / median                             |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.721  | Sistem penerangan                                       |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.720                                     | Penerangan                                    | 4.721  | Sistem penerangan                                       |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.722  | Struktur Tiang Pengaman                                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.723  | Penunjang Penerangan                                    |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.730                                     | Utilitas                                      | 4.731  | Utilitas Kabel Listrik                                  |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.732  | Utilitas Pipa Air Minum                                 | 302       | Karat               |        |  |               |   | 1 | 1 | 0 | 0 | 0 | 2 | 1             | 1  | 0 | 0 | 0 | 0 | 2 |    |
|        |                             |                                           |                                               | 4.733  | Utilitas Kabel Telekomunikasi                           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 7.734  | Utilitas Pipa Air Kotor                                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.735  | Utilitas Pipa Pembawa Bahan Energi 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                                |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.751  | Sensor Struktur                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.750                                     | SMKS (Sistem Monitoring Kesehatan Jembatan)   | 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 Penvalur Data                                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.761  | Sistem penggerak fungsional                             |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.762  | Sistem Elektrik                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.763  | Sistem Hidrolik                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.764  | Sistem Mekanis                                          |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.770                                     | Fasilitas Pemeriksaan Tetap                   | 4.771  | Tangga / Platform Pemeriksaan                           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.772  | Lubang Masuk (gelagar, kolom)                           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.773  | Traveler                                                |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
| 2.800  | gorong - gorong             | 3.810                                     | Tanah di dalam struktur Gorong - gorong       | 4.811  | Tanah timbunan di atas gorong - gorong                  |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.812  | Tanah dasar di bawah struktur gorong - gorong           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.820                                     | Gorong - gorong Persegi Boks                  | 4.821  | Dinding Tegak                                           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.822  | Pelat Bawah                                             |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.823  | Pelat Atas                                              |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.824  | Drainase Gorong - gorong Persegi Boks                   |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.830                                     | Gorong - gorong Pipa                          | 4.831  | Dinding penahan tanah timbunan                          |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.832  | Drainase Gorong - gorong Pipa                           |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | Gorong - gorong Pelengkung Baja Gelombang |                                               | 4.841  | Pelat Baja Gelombang                                    |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.842  | Sambungan / Baut pengikat                               |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.843  | Fondasi / Pelat Beton Dudukan Pelengkung Baja Gelombang |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.844  | Drainase Gorong gorong Pelengkung Baja Bergelombang     |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.850                                     | Struktur Pendukung Gorong - gorong            | 4.851  | Tembok Sayap                                            |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.852  | Tembok Kepala (Head wall) Gorong-gorong                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.853  | Temmbok Bawah (Drop wall) Gorong-gorong                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.854  | Apron                                                   |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.860                                     | Perkuatan Gorong - gorong                     | 4.861  | Perkuatan dengan Lapisan Beton Tambahan                 |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.862  | Perkuatan dengan FRP                                    |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               | 4.863  | Perkuatan dengan Lapisan Baja Tambahan                  |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
| 2.900  | Struktur Lintasan B         | 3.910                                     | Lintasan dengan Perkerasan                    |        |                                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.920                                     | Lintasan Alam (tanpa perkerasan)              |        |                                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             | 3.930                                     | Lintasan dengan struktur semi - permanen      |        |                                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |
|        |                             |                                           |                                               |        |                                                         |           |                     |        |  |               |   |   |   |   |   |   |   |               |    |   |   |   |   |   |    |

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



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

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

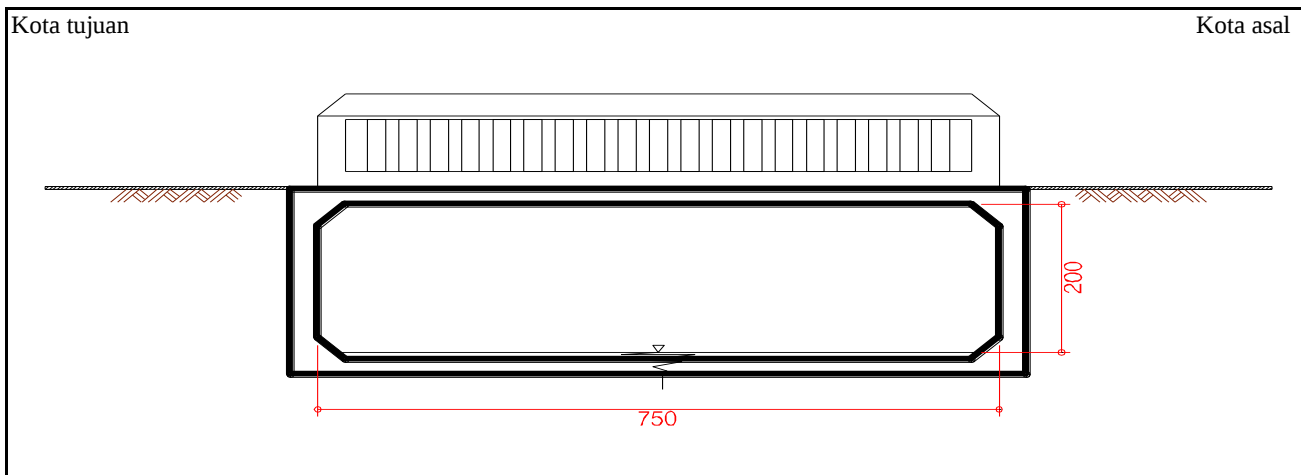
NO. JEMBATAN :

|    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KT | 3 | 3 | 0 | 7 | 4 | 0 | 1 | 0 | 0 | 5 | 8 | 0 | 0 | 1 | 0 |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

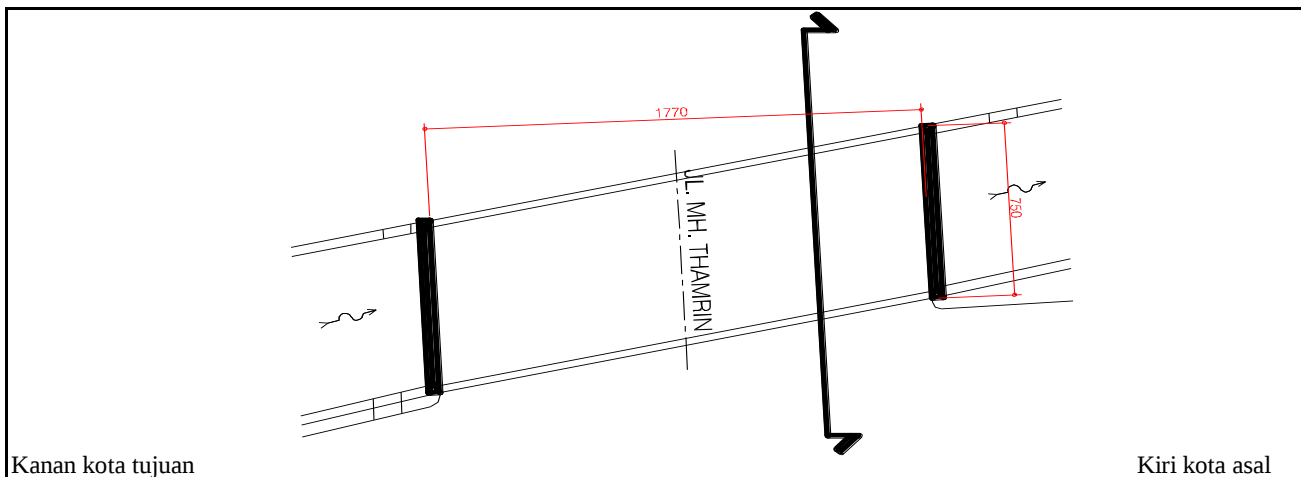
NAMA JEMBATAN :

MH THAMRIN 1

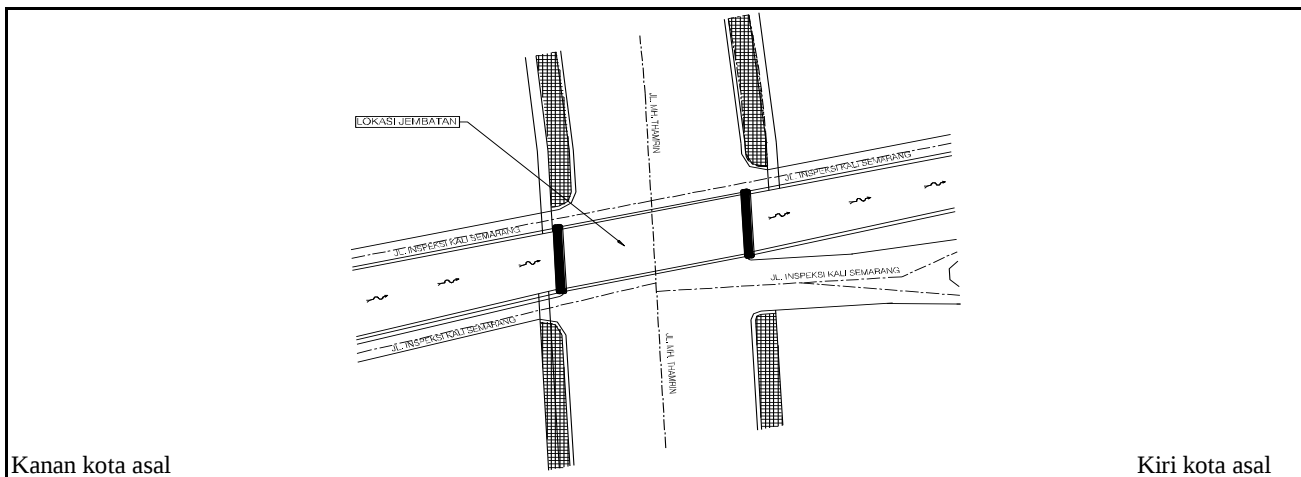
**POTONGAN MEMANJANG**



**TAMPAK ATAS**



**SITUASI**





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

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



**TAMPAK MEMANJANG**



**TAMPAK MEMANJANG**



**TAMPAK MELINTANG**



**TAMPAK MELINTANG**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.01.0058.001 | MH THAMRIN 1  | 0+470       | 7,50        |



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**PELAT JEMBATAN KEROPOS DAN RONTOK**



**SANDARAN JEMBATAN RETAK**



**UTILITAS PIPA BERKARAT**



**KONDISI BANGUNAN BAWAH JEMBATAN**

| NOMOR JEMBATAN        | NAMA JEMBATAN | LOKASI (Km) | PANJANG (M) |
|-----------------------|---------------|-------------|-------------|
| KT.33.074.01.0058.001 | MH THAMRIN 1  | 0+470       | 7,50        |