

Pretensioned hollow deck bridge

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| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A1:1 |
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1. GENERAL / MEASUREMENT

| | | |
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1.1 CONSTRUCTION TYPE

Bridge superstructure is performed as a pretensioned slab bridge with a total of 8 spans.

In the transverse direction, there are 8 void tubes Ø650 at a distance of 1.0 m from each other.

End supports are constructed as free standing abutments with expansion joints.

All foundations are constructed with slabs on compacted fill.

Spans according to the presentation below.

| Span nr. | Length |
|----------|--------|
| 1 | 19,1 |
| 2 | 25,0 |
| 3 | 23,2 |
| 4 | 31,0 |
| 5 | 31,0 |
| 6 | 25,0 |
| 7 | 25,0 |
| 8 | 19,1 |
| - | m |

The impact of phased construction is considered in the determination of load effects.

The bridge has a total of 8 cast joints (stages I-VIII).

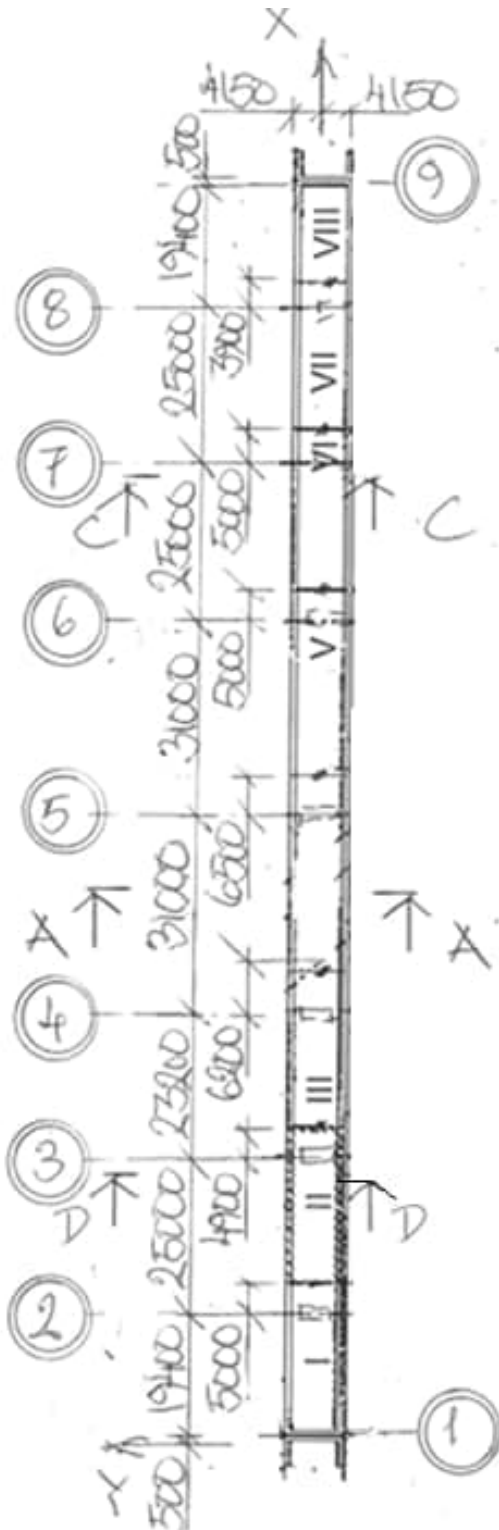
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:3 |
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PLAN

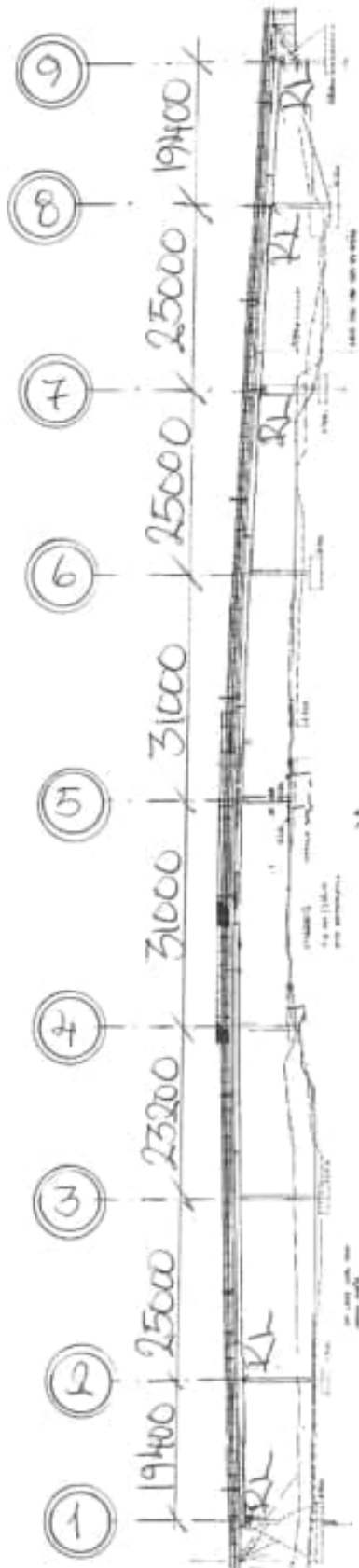
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:4 |
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1.2 MÅTT



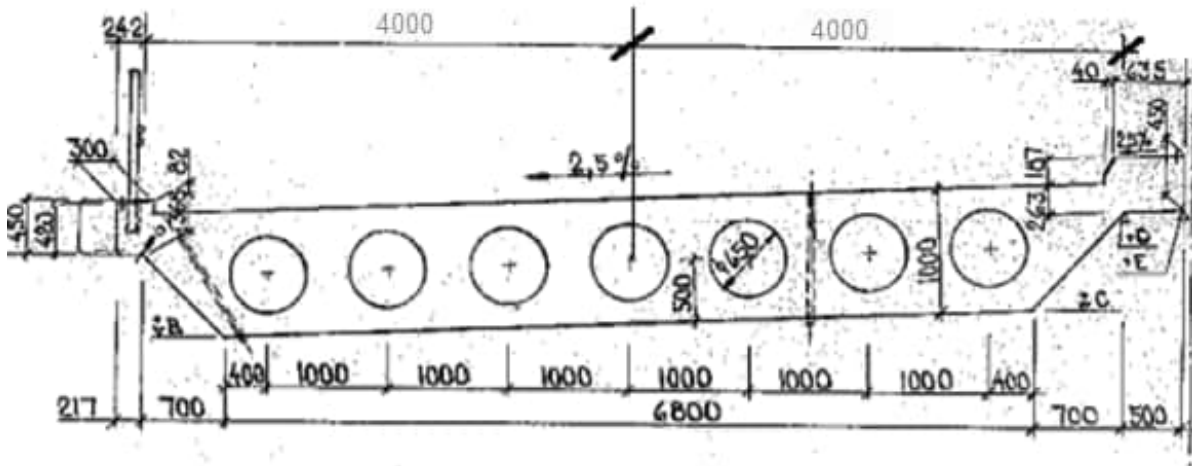
PLAN
Overview

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:5 |
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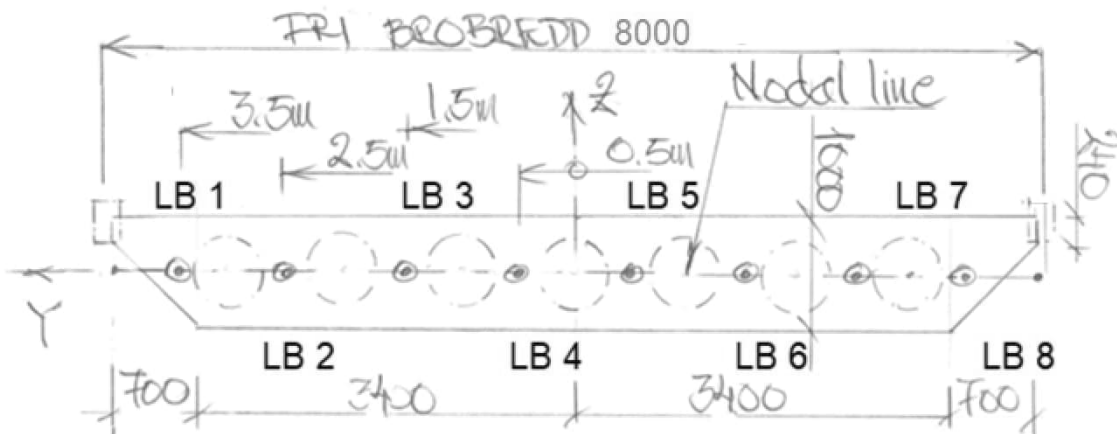
ELEVATION

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:6 |
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SECTION A-A

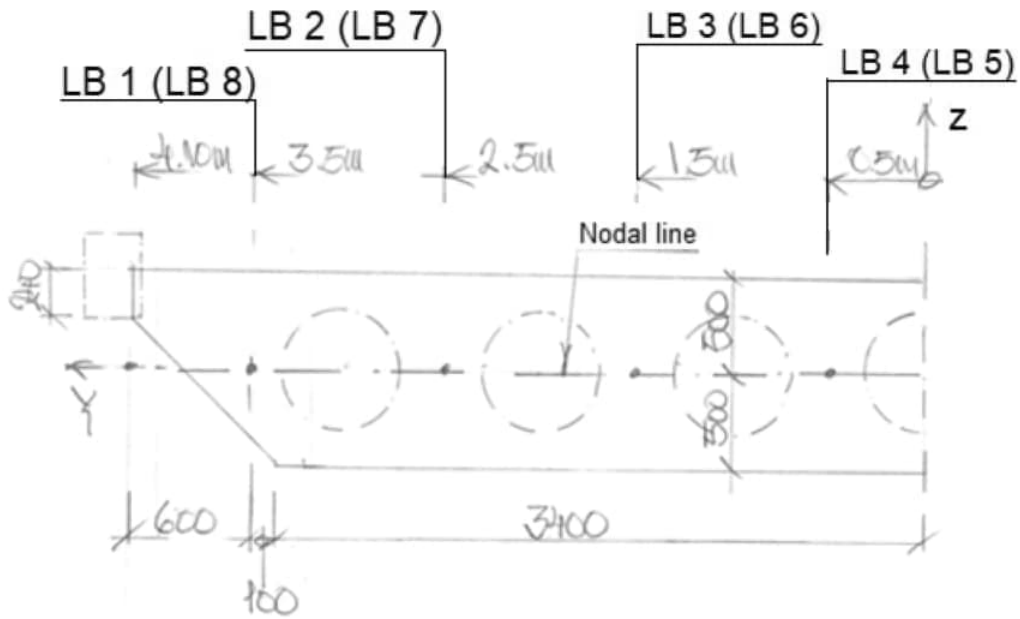
Drawing



SECTION A-A

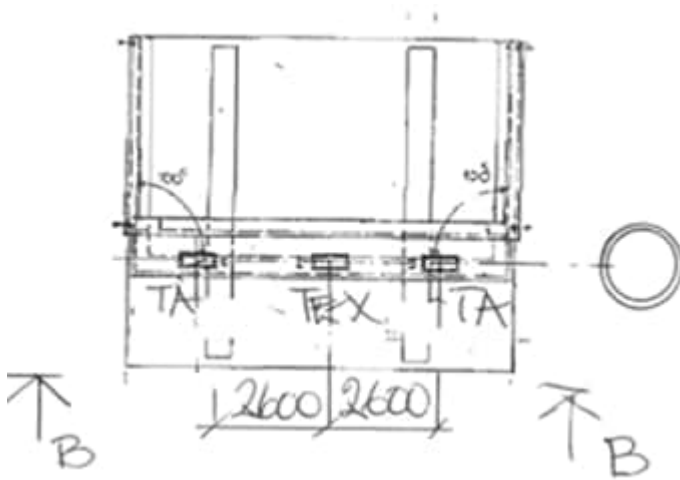
Calculation

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:7 |
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DETAIL 1
Calculations

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:8 |
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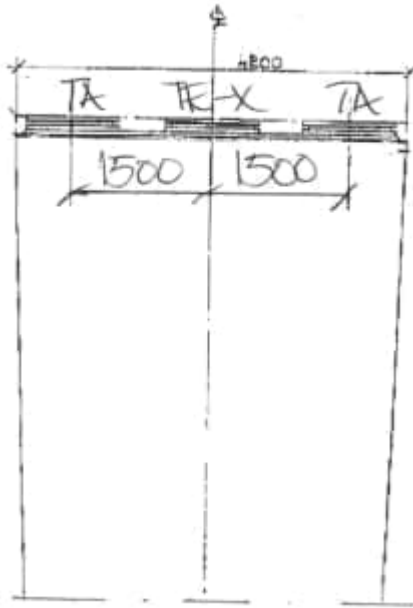


PLAN
Support 1 & 9



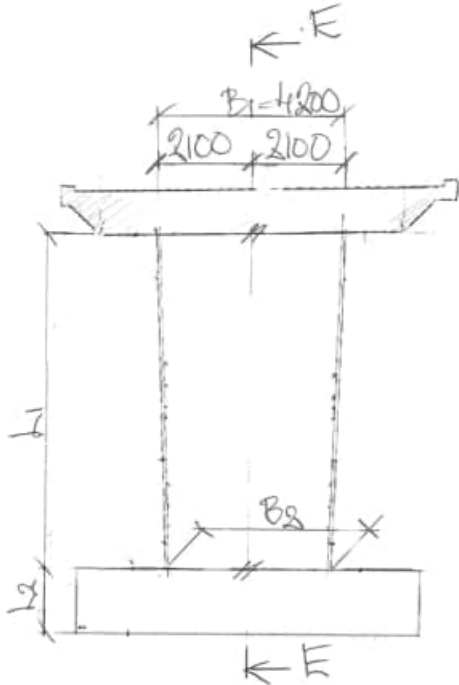
VIEW B-B
Support 1 & 9

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A1:9 |
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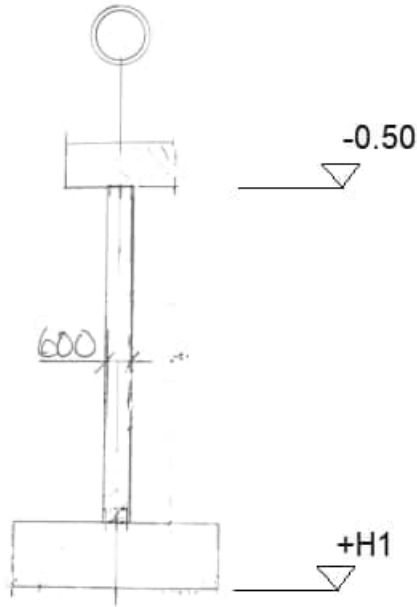


SECTION C-C
Support 2, 7 & 8

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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:10 |
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SECTION D-D
Support 3-6



SEKTION E-E
Support 3-6

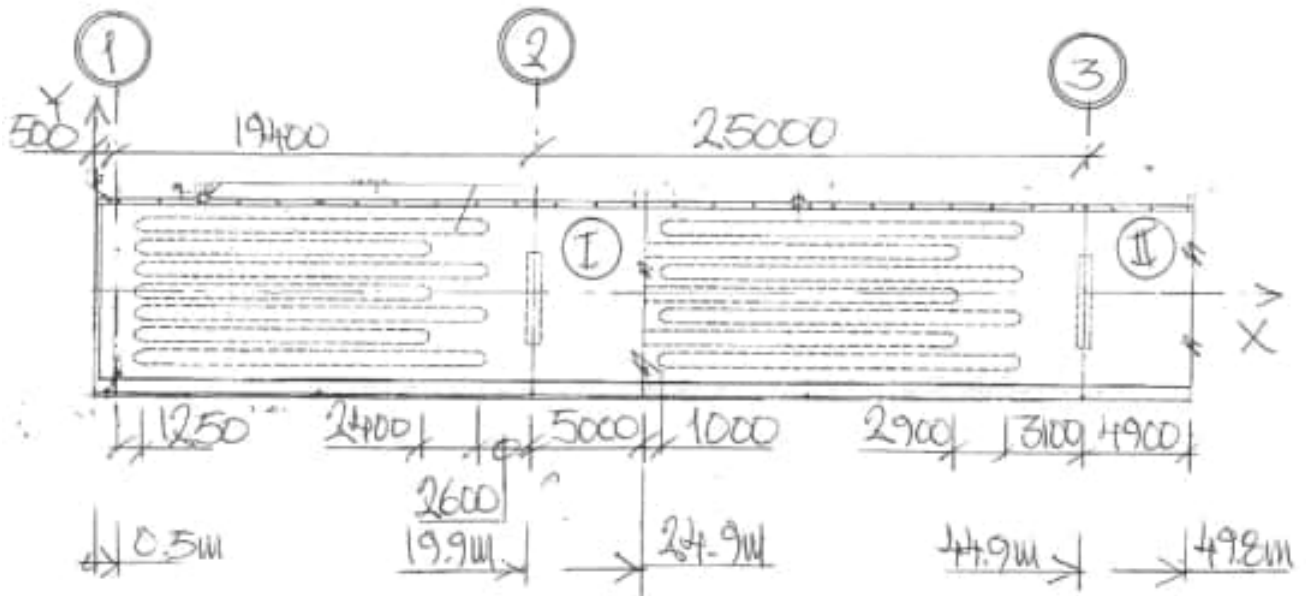
| Support | B1 | B2 | L1 | L2 | +H1 | Line |
|---------|------|------|-------|------|--------|-------------|
| 3 | 4200 | 3500 | 10970 | 1300 | -11.77 | P1300→P1301 |
| 4 | 4200 | 3500 | 9680 | 1400 | -11.58 | P1400→P1401 |
| 5 | 4200 | 3700 | 7470 | 1450 | -9.37 | P1500→P1501 |
| 6 | 4200 | 3600 | 8280 | 1400 | -10.18 | P1600→P1601 |
| - | mm | mm | mm | mm | m | - |

Tabell
Support 3-6

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:11 |
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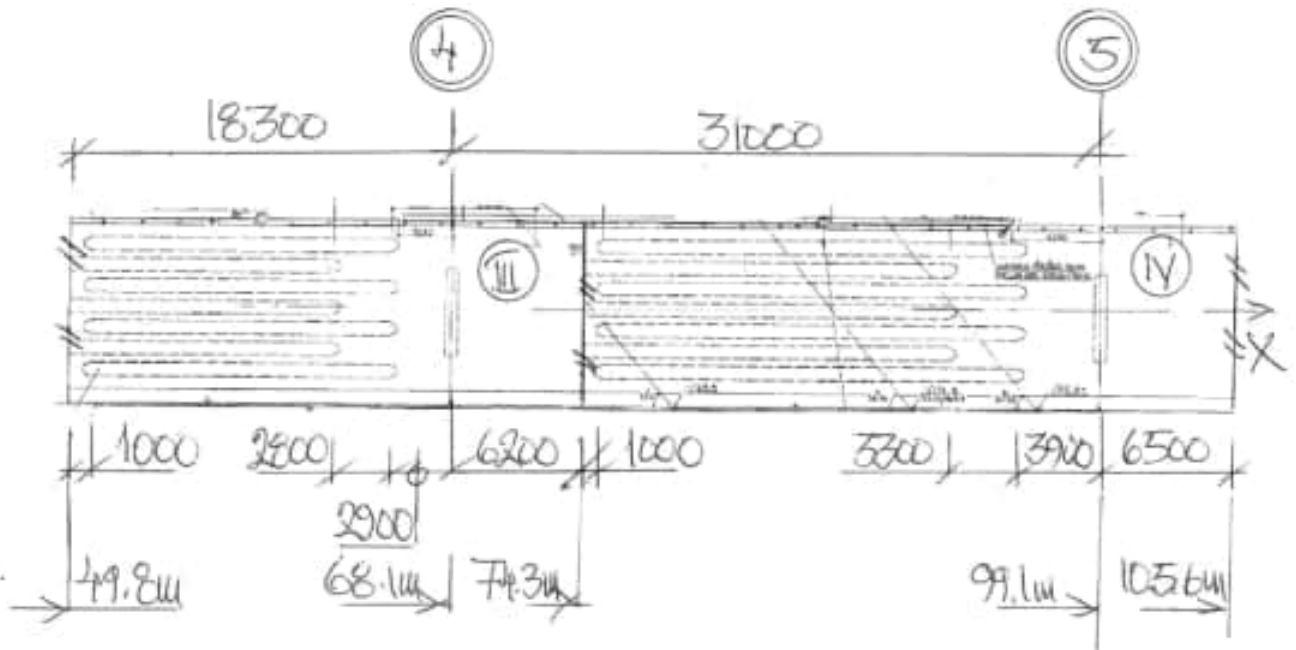
1.3 CASTING STAGES

There is a total of 8 casting stages with as seen below.



PLAN

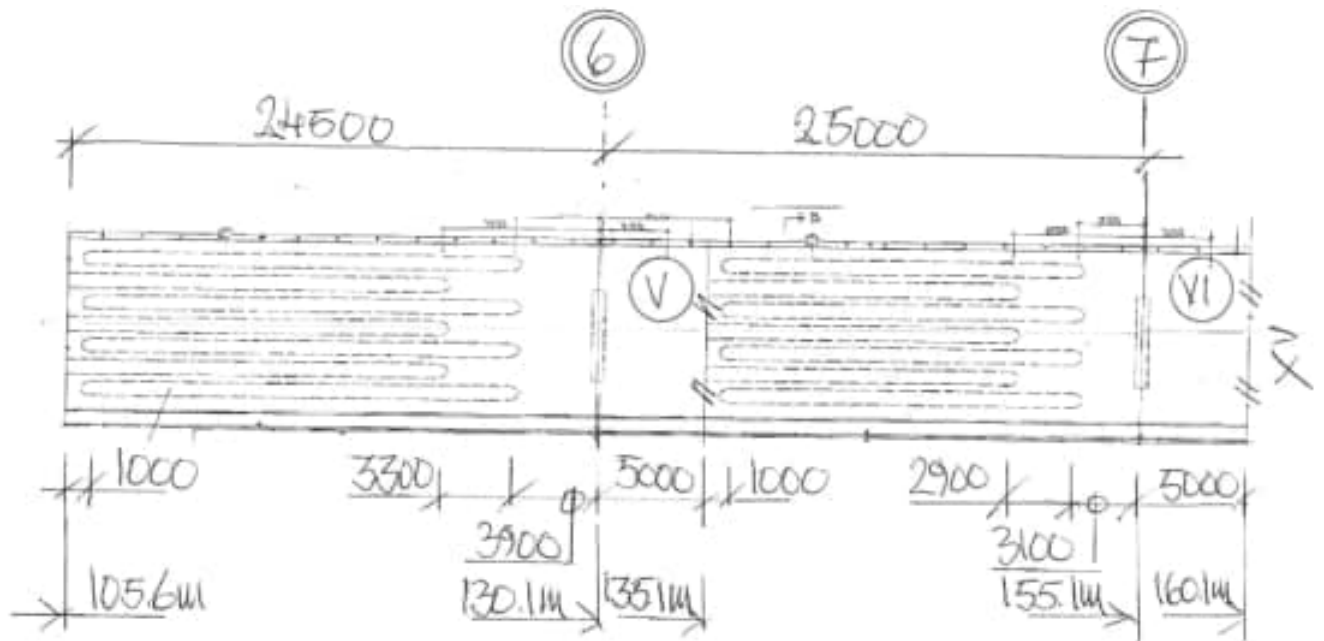
Casting stage 1 & 2



PLAN

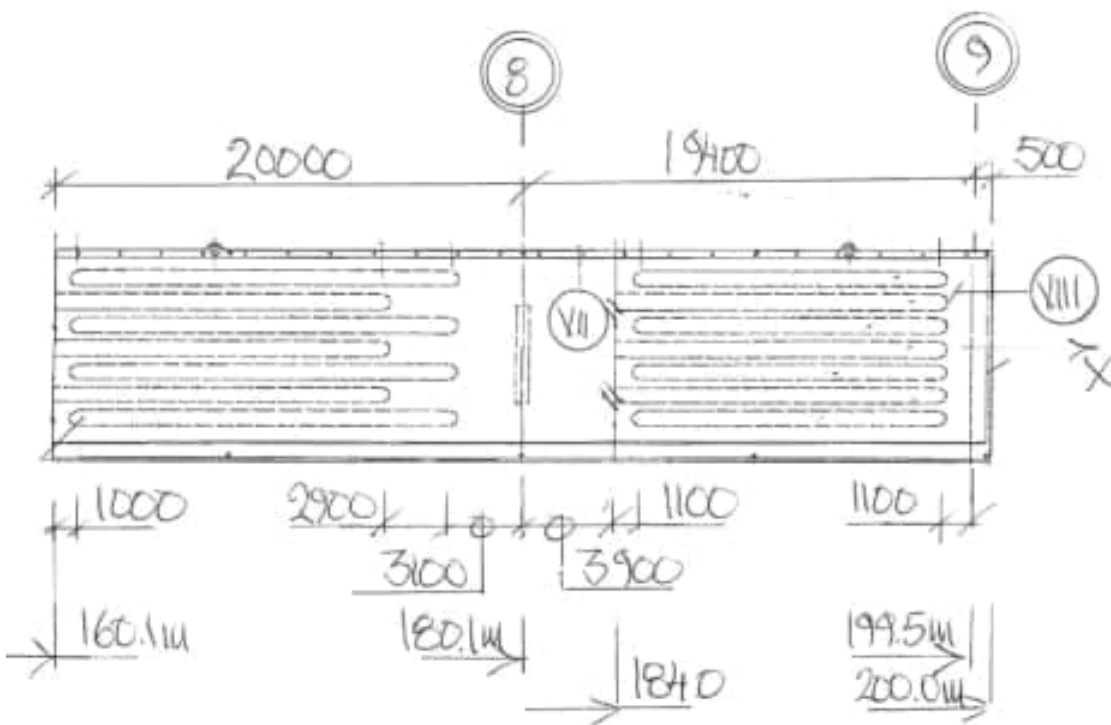
Casting stage 3 & 4

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:12 |
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PLAN

Casting stage 5 & 6



PLAN

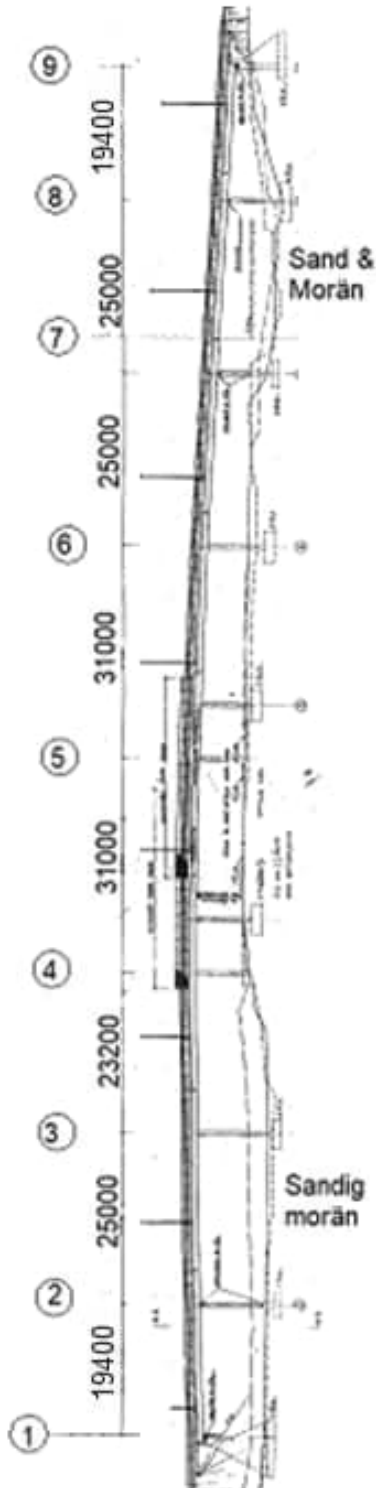
Casting stage 7 & 8

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:13 |
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1.4 FOUNDATION

Foundation at all support on compacted filling.

Benith filling sand, "morän" and sandy "morän" according interpretation seen below.



| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:14 |
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1.5 CODE OCH TENDER DOCUMENTS

- "Bro och broliknande konstruktion allmänna krav" (TRVINFRA-00226 v5)
- "Bro och broliknande konstruktion byggande" (TRVINFRA-0027 v6)
- "TSFS 2018:57 med ändringar tom TSFS 2022:50"
- "AMA Anläggning 23"
- "TRV ändringar och tillägg till AMA 23" (TDOK 2023:0125 v3)
- "Geokonstruktion dimensionering och utformning" (TRVINFRA-00230 v2)
- Document SS-EN 1990 to SS-EN 1999, see TRVINFRA section A.1.2.3.2

1.6 TECHNICAL SERVICE LIFE

Technical life span 120 years (L100).

1.7 ENVIRONMENT

Road traffic environment ("vägmiljö") is assumed for the overlying traffic road since salt is used at winter.

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:15 |
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1.8 MATERIAL

Concrete : C30/37 & C35/45 (CEM I 42.5 N, Anläggningscement klass N)

Reinforcement : B500B

Compacted fill : "Förtärkningslagermaterial" according to AMA CEB.415

Backfill : "Grovkrossad sprängsten" according to AMA CEB.524

Surfacing : See document RKFM

Pretension: VSL system or equivalent

1.9 GEOTECHNICAL CLASS

Geotechnical class GK2

Geotechnical class GK2

1.10 SAFETY CLASS

Geotechnical resistance: SK 2

Bridge structure : SK 3

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A1:16 |
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1.11 CONCRETE COVER AND CRACK CRITERIA

Class identification bridge components .:

| Bridge components | Exposure class ^{1.)} | Life spann | max vct _{ekv} ^{2.)} | ζ ^{3.)} |
|----------------------------|-------------------------------|------------|---------------------------------------|------------------------|
| Substructure: | | | | |
| ▫ Wingwall towards filling | XD1/XF4 | L100 | 0.45 | 1.5 |
| ▫ Wingwall from filling | XD1/XF4 | L100 | 0.45 | 1.5 |
| ▫ Abutement below ground | XC2/XF3 | L100 | 0.50 | 1.0 |
| ▫ Abutement in air | XC4/XF3 | L100 | 0.50 | 1.2 |
| ▫ Bottom slab in general | XC2/XF3 | L100 | 0.50 | 1.0 |
| ▫ Bottom slab underside | XC2/XF3 | L100 | 0.50 | 1.0 |
| ▫ Link slab in general | XD3/XF2 | L100 | 0.40 | 1.8 |
| ▫ Link slab underside | XD3/XF2 | L100 | 0.40 | 1.8 |
| Superstructure: | | | | |
| ▫ Edge beam | XD3/XF4 | L100 | 0.40 | 1.8 |
| ▫ Bridge deck | XD1/XF4 | L100 | 0.40 | 1.5 |

Footnote:

- 1.) TRVINFRA-00227 section 5.3.2.3
- 2.) TSFS table 12.1
- 3.) TSFS table 12.3

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:17 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Design parameters low corrosion sensitive reinforcement (rebars):

$c_{min,dur}$: minimum cover with regard to environmental impact

$c_{min,b}$: minimum cover with regard to adhesion requirements

Δc_{dev} : execution tolerance

$c_{min} = \max(c_{min,b}; c_{min,dur}; 10mm)$: SS-EN 1992-1-1 eq. 4.2

$c_{nom} = c_{min} + \Delta c_{dev}$: SS-EN 1992-1-1 eq. 4.1, noted as BM on the drawing

| Construction part | $c_{min,dur}$ ^{1.)} | $c_{min,b}$ ^{2.)} | c_{min} | c_{dev} ^{3.)} | c_{nom} | $W_{k,till}$ ^{4.)} |
|----------------------------|------------------------------|----------------------------|-----------|--------------------------|-------------------|-----------------------------|
| Substructure: | | | | | | |
| ▫ Wingwall towards filling | 30 | 20 | 30 | 10 | 40 | 0.20 |
| ▫ Wingwall from filling | 30 | 20 | 30 | 10 | 40 | 0.20 |
| ▫ Abutement below ground | 20 | 20 | 20 | 10 | 30 | 0.40 |
| ▫ Abutement in air | 25 | 20 | 25 | 10 | 35 | 0.30 |
| ▫ Bottom slab in general | 20 | 20 | 20 | 10 | 30 | 0.40 |
| ▫ Bottom slab underside | 20 | 20 | 20 | 10 | 30 | 0.40 |
| ▫ Link slab in general | 45 | 20 | 45 | 10 | 55 | 0.15 |
| ▫ Link slab underside | 45 | 20 | 45 | 10 | 60 ^{5.)} | 0.15 |
| Superstructure: | | | | | | |
| ▫ Edge beam | 45 | 20 | 45 | 10 | 55 | 0.15 |
| ▫ Bridge deck | 25 | 20 | 25 | 10 | 35 | 0.20 |

Footnotes:

1.) TSFS table 12.1

2.) SS-EN 1992-1-1 section 4.4.1.2 table 4.2

3.) SS-EN 1992-1-1 section 4.4.1.3

4.) TSFS table 12.2

5.) TSFS chapter 12 paragraph 3§ $k_1 = c_{min} + 15$ mm when casting against building foil.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A1:18 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Design parameters high corrosion sensitive reinforcement (pretension):

$c_{min,dur}$: minimum cover with regard to environmental impact

$c_{min,b}$: minimum cover with regard to adhesion requirements

Δc_{dev} : execution tolerance

$c_{min} = \max(c_{min,b}; c_{min,dur}; 10mm)$: SS-EN 1992-1-1 eq. 4.2

$c_{nom} = c_{min} + \Delta c_{dev}$: SS-EN 1992-1-1 eq. 4.1, noted as BM on the drawing

| Construction part | $c_{min,dur}$ ^{1.)} | $c_{min,b}$ ^{2.)} | c_{min} | c_{dev} ^{3.)} | c_{nom} | $w_{k,till}$ ^{4.)} |
|-----------------------------|------------------------------|----------------------------|-----------|--------------------------|-----------|-----------------------------|
| Superstructure: | | | | | | |
| ▫ Top bridge deck | 25 | 90 | 90 | 10 | 100 | * |
| ▫ Other part of bridge deck | 25 | 90 | 90 | 10 | 100 | * |
| | mm | mm | mm | mm | mm | mm |

Footnotes:

1.) TSFS table 12.1

2.) SS-EN 1992-1-1 section 4.4.1.2 (3) specifies pretension tube $\phi 90$

3.) SS-EN 1992-1-1 section 4.4.1.3

4.) TSFS table 12.2 states that crack width is not needed when "tensile stress" for SLS-F is less than $f_{ctk,0.05}/\zeta$

| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:1 |
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2. SYSTEM ANALYSIS

| | | |
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| 2.3 | CROSS SECTION PROPERTIES | page 2:34-96 |
| 2.4 | MATERIAL | page 2:97-99 |
| 2.5 | BOUNDARY CONDITIONS | page 2:100-105 |
| 2.6 | MESH | page 2:106-109 |
| 2.7 | STAGED CONSTRUCTION | page 2:110-127 |
| 2.8 | SEARCH AREA | page 2:128 |

| | | | |
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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:2 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.1 GENERAL

Regulations, SS-EN 1992-1-1 section 5.3.1 (3) specifies criteria for “slab” and “beam” as follows:

- Slab: $B > 5H$
- Beam: $B \leq 5H$

The studied bridge deck is therefore a slab structure, since $B > 7.5H$, and not a beam.

Edge beams are not considered to contribute any stiffness, only load.

The bridge deck is modeled as grillage using longitudinal and transverse beams.

There are a total of 8 longitudinal beams. These are modeled as 3D beam elements and defined along longitudinal nodal lines. Each beam has a width of 1 m.

Transverse beams are introduced at both the bottom and top of the bridge deck. These are assigned a maximum width of 3 m in accordance with technical code practice. The transverse beams are included to enable evaluation of bending moments and shear forces between the voids. These beams are also modeled as 3D beam elements defined along transverse nodal lines. A stiffness increase of 1:3 is applied when determining their thickness.

To avoid shear reinforcement (stirrups) to resist torsion and shear effects, the chosen analysis model must account for this. This is achieved by assigning negligible torsional stiffness to both longitudinal and transverse beams, thereby preventing torsional forces from developing in these elements. This assumption results in a somewhat reduced load distribution in the transverse direction.

The columns at supports 3–6 are modeled as 3D beam elements. At their top, these elements are rigidly connected to the lower transverse beams using beam joints (JSH4). At their base, the columns are modeled with pinned connections, consistent with the original analysis.

Traffic load evaluation is performed using the Vehicle Load Optimiser (VLO) for Swedish traffic loads.

The bridge is constructed in a total of 8 casting stages (STAGE 1 through STAGE 8).

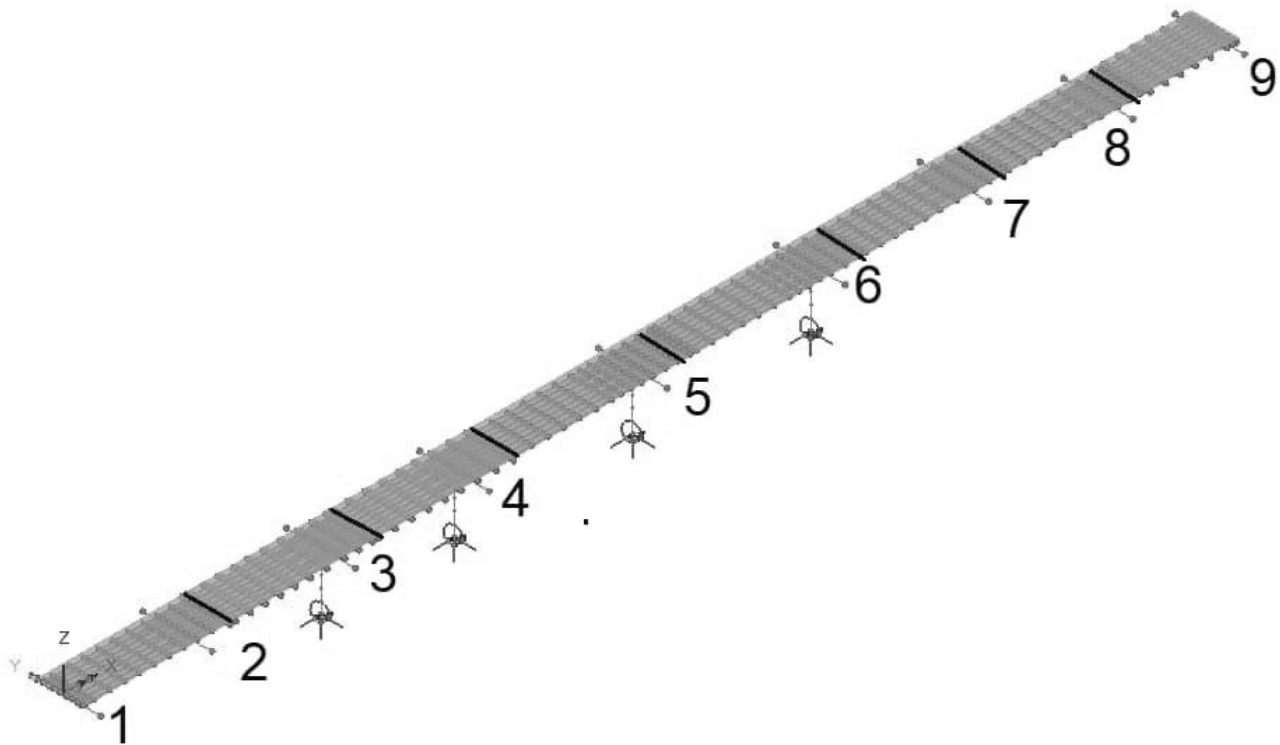
FEM program allows multiple structural systems within a single model. For this bridge, 9 different structural systems are used. One for each construction stage and one for operational stage.

The reason for selecting a 3D analysis is that line supports are not present at each support location. Longitudinal beams LB1 and LB8 have no supports at all, while LB2 and LB7 lack supports at several locations.

| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:3 |
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Appendices:

| Appendix | Name |
|----------|------------------------------|
| 1 | Input receipt |
| 2 | Results reactions |
| 3 | Results bearings |
| 4 | Results longitudinal girders |



3D Overview

| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:4 |
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2.2 SKETCH SYSTEM ANALYSIS

2.2.1 Geometry

To describe geometry first POINTS are defined.

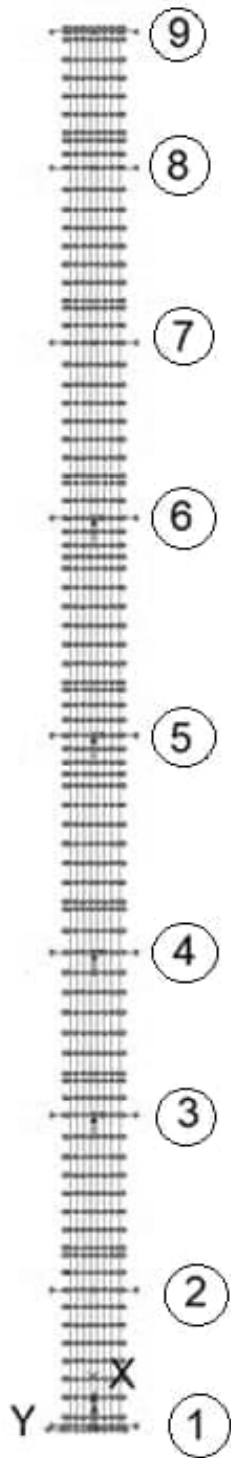
Beam elements are defined by applying attributes to LINES.

Attached pictures are retrieved from graphical sketches generated of POINTS and LINES.

All coordinates needed to describe POINTS are found in Input Receipt.

All POINTS needed to describe LINES are found in Input Receipt.

| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:5 |
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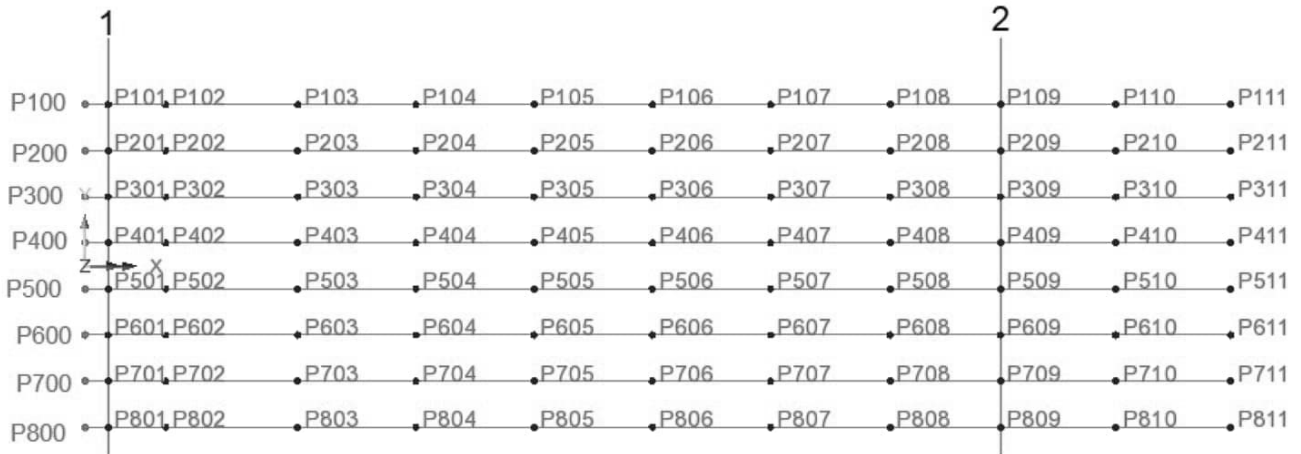


PLAN (nodal lines)
Overview

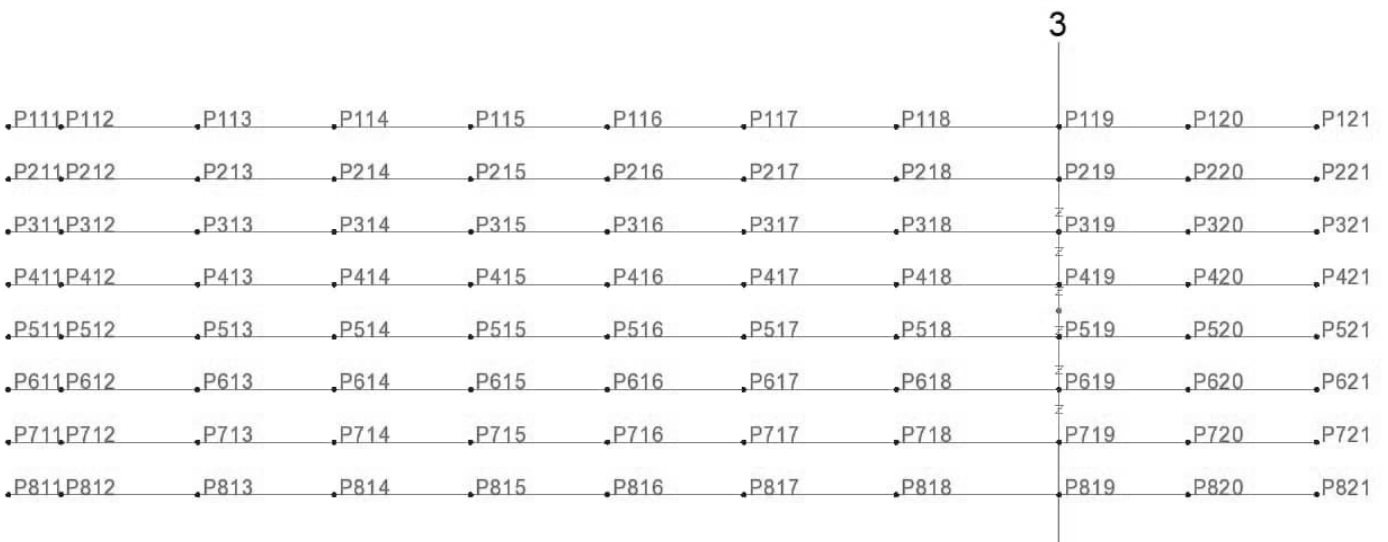
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|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:6 |
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2.2.1.1 Geometry : POINTS

Casting stage 1 - Longitudinal beams (LB):

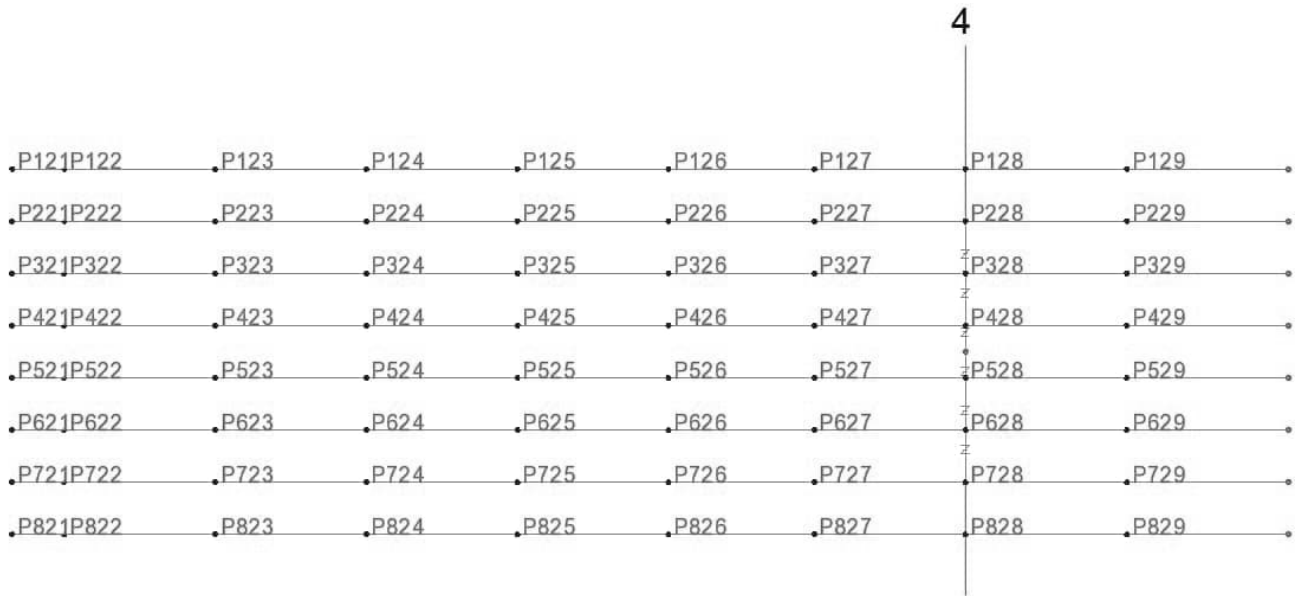


Casting stage 2 - Longitudinal beams (LB):

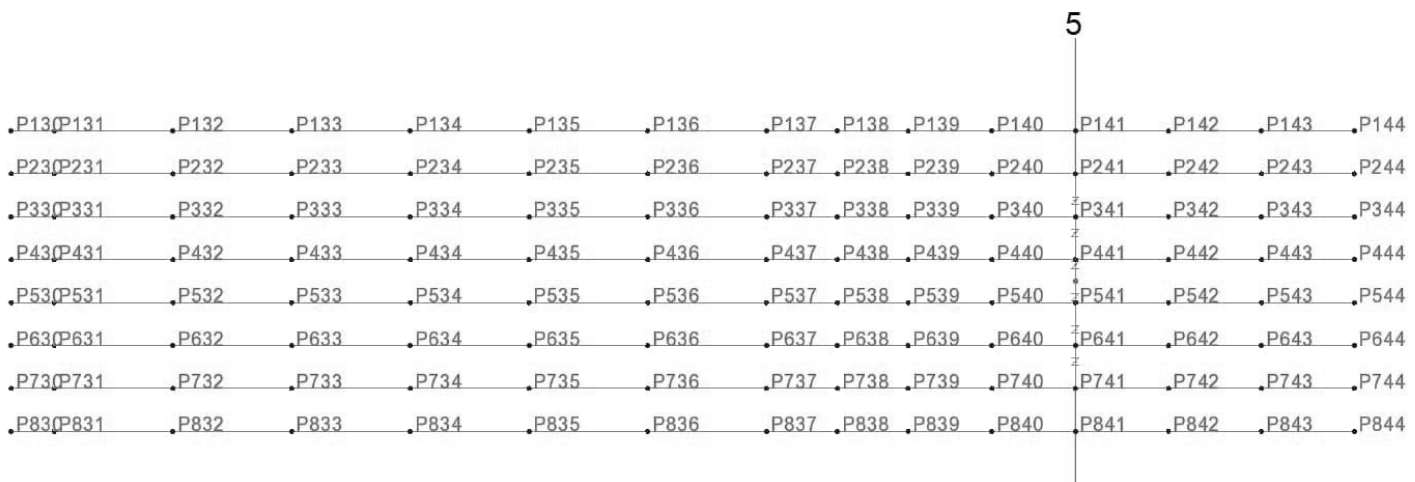


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| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:7 |
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Casting stage 3 - Longitudinal beams (LB):

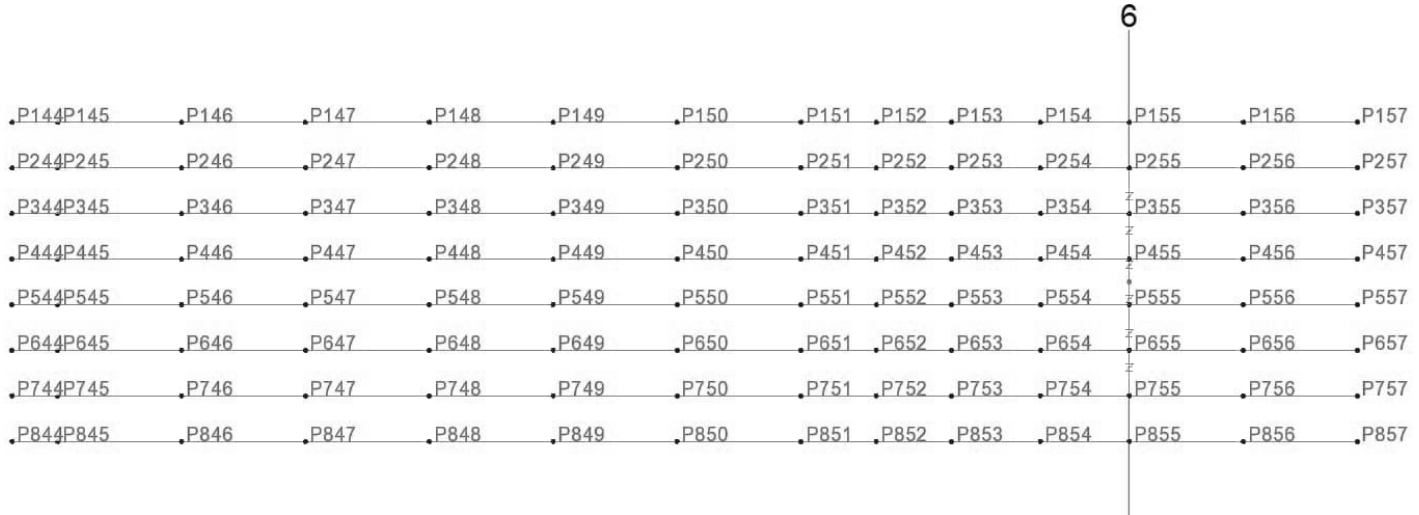


Casting stage 4 - Longitudinal beams (LB):

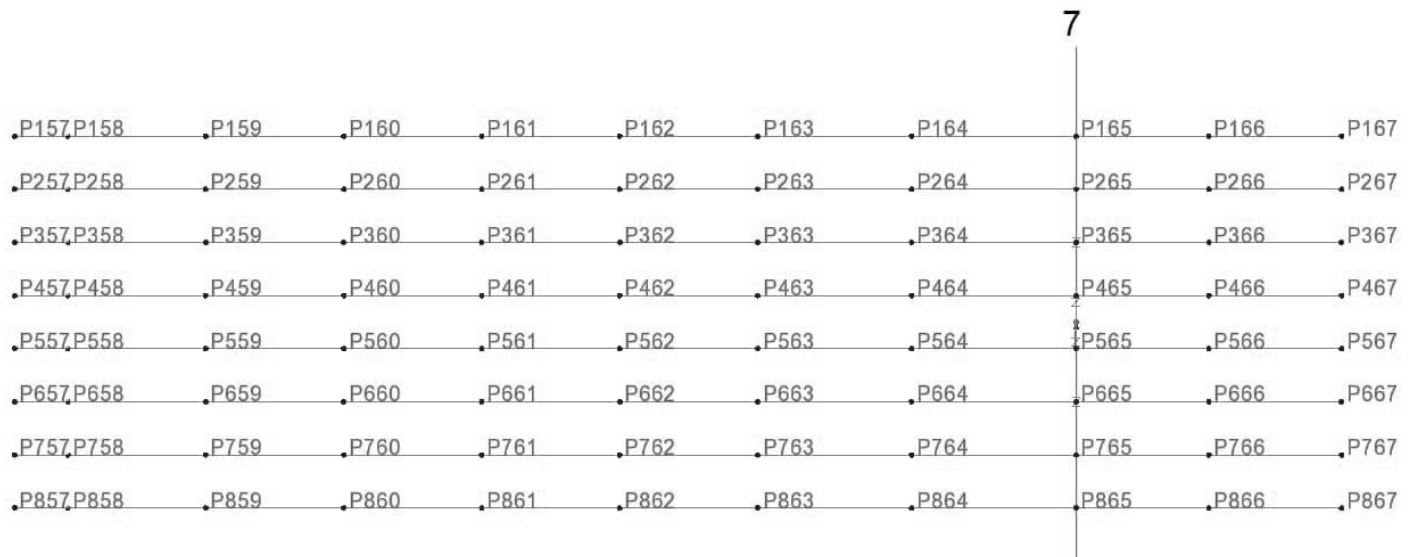


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| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:8 |
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Casting stage 5 - Longitudinal beams (LB):

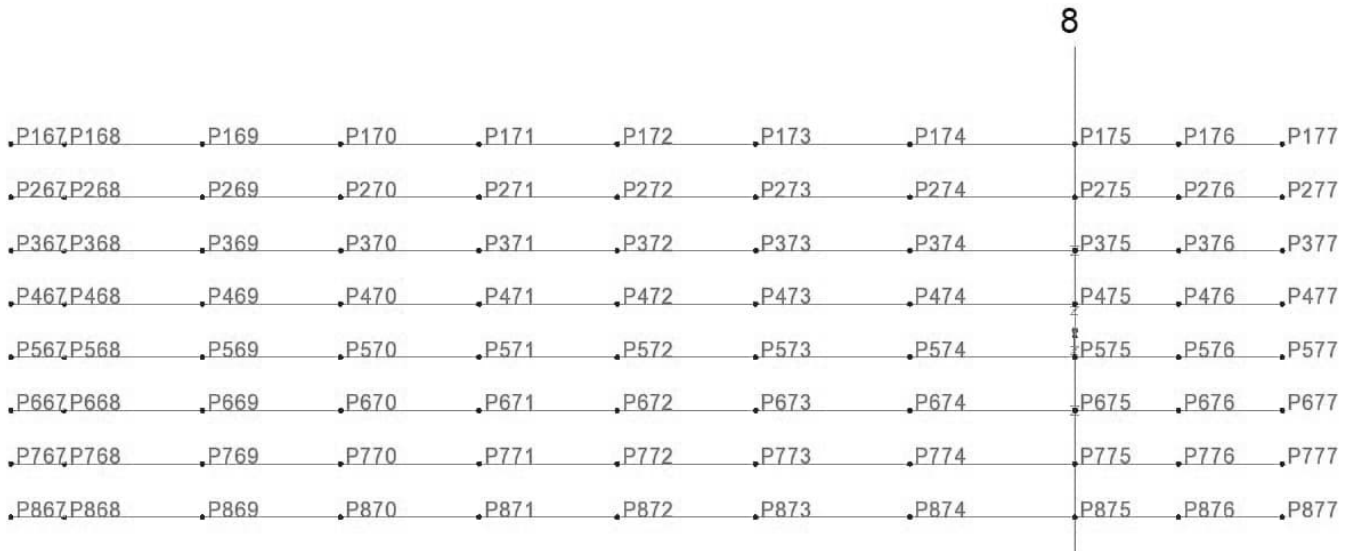


Casting stage 6 - Longitudinal beams (LB):

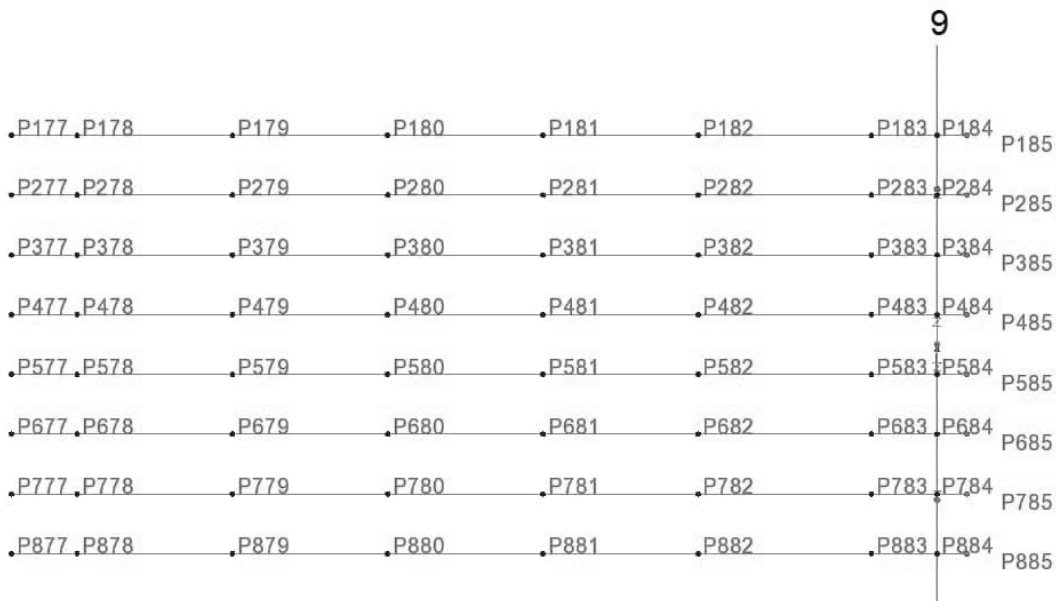


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|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:9 |
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Casting stage 7 - Longitudinal beams (LB):

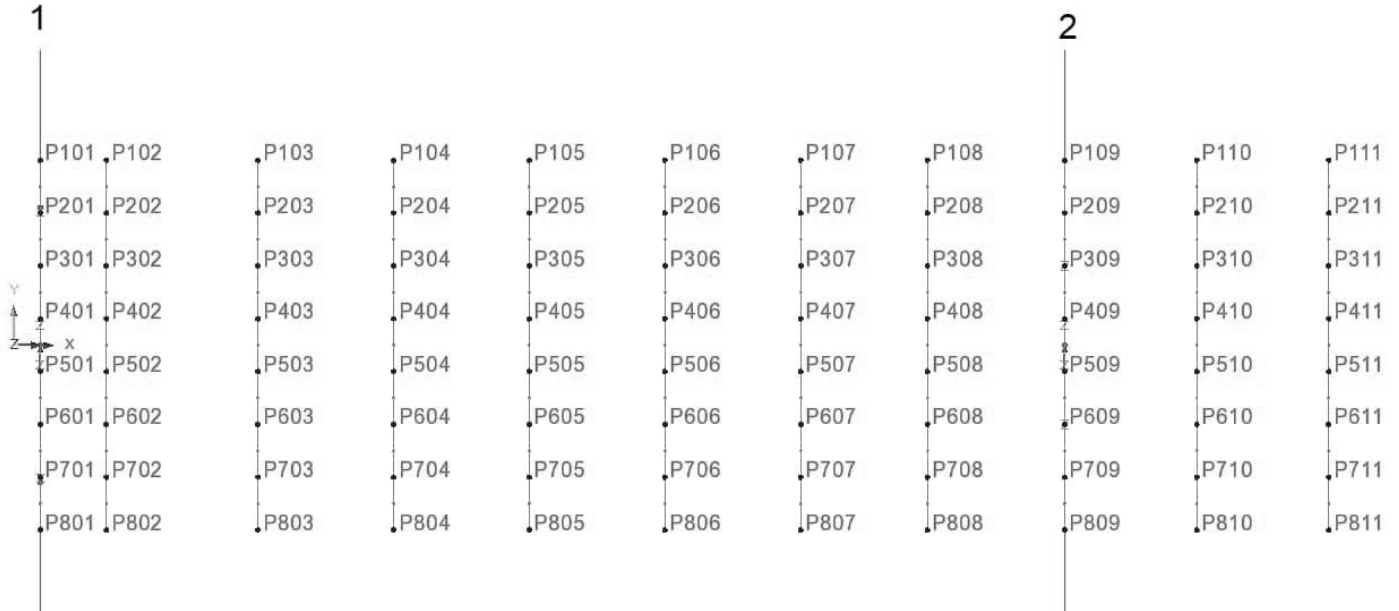


Casting stage 8 - Longitudinal beams (LB):

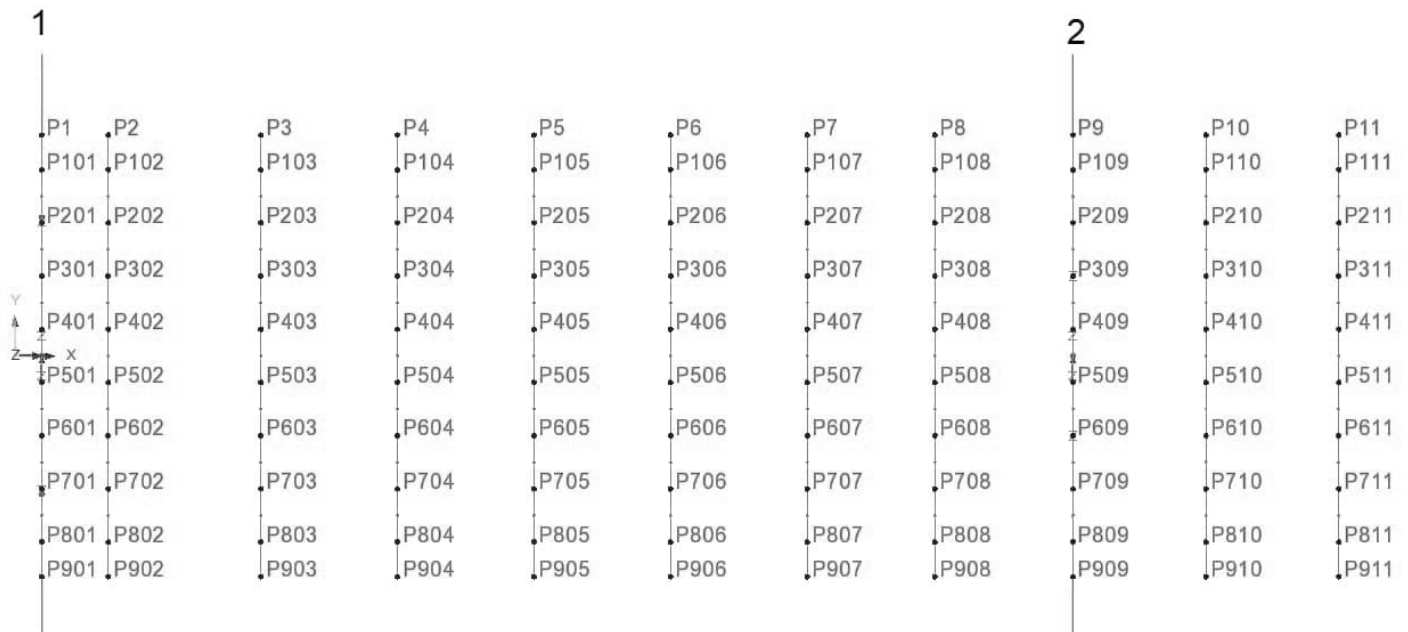


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| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:10 |
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Casting stage 1 - Transversal beams UK (TB-UK):

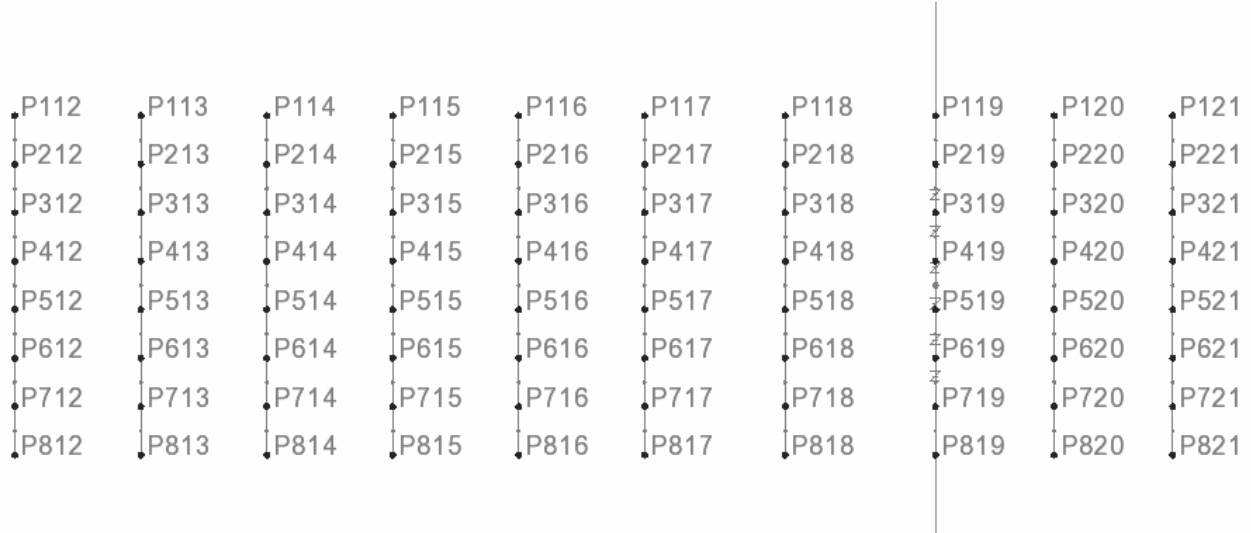


Casting stage 1 - Transversal beams OK (TB-OK) & Edge beams (EB):

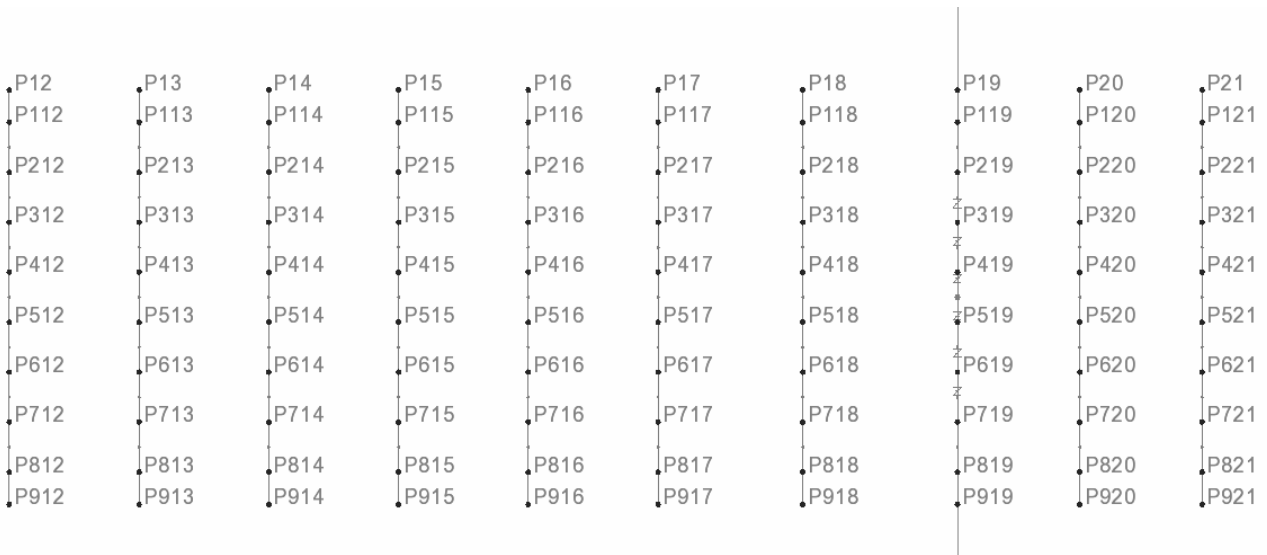


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:11 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 2 - Transversal beams UK (TB-UK):

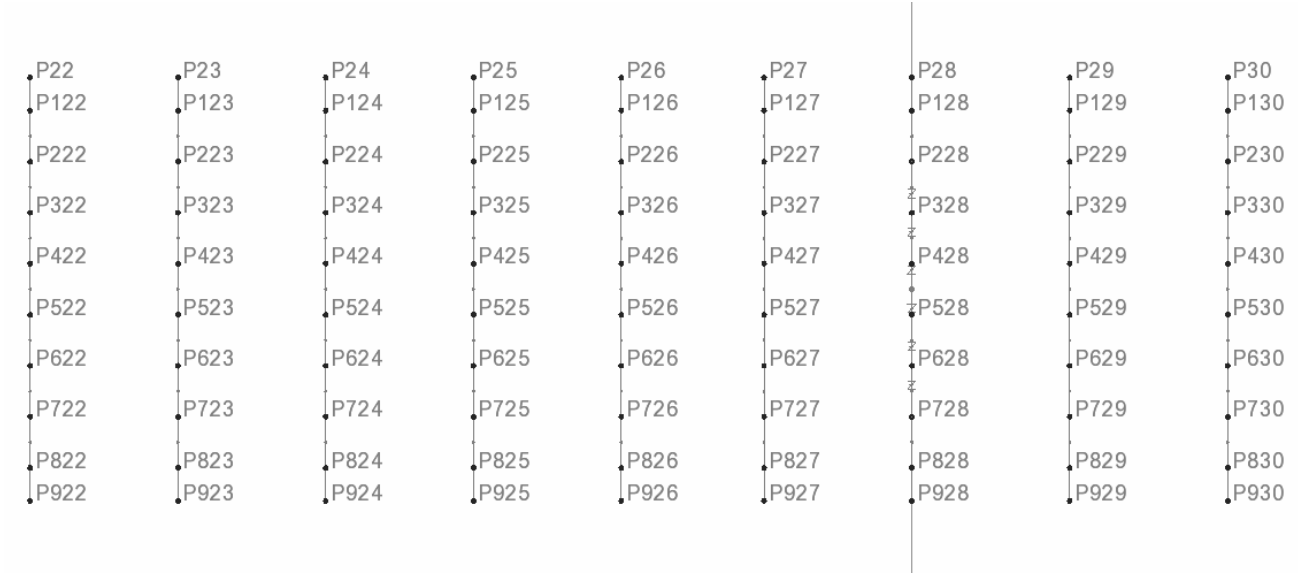


Casting stage 2 - Transversal beams OK (TB-OK) & Edge beams (EB):

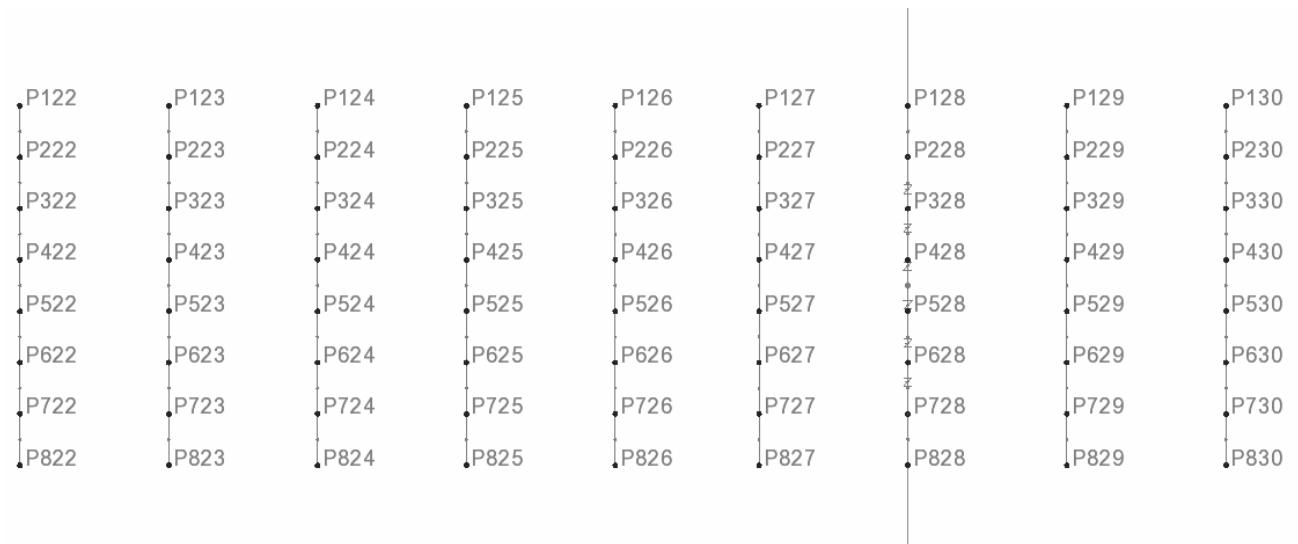


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:12 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 3 - Transversal beams OK (TB-OK) & Edge beams (EB):

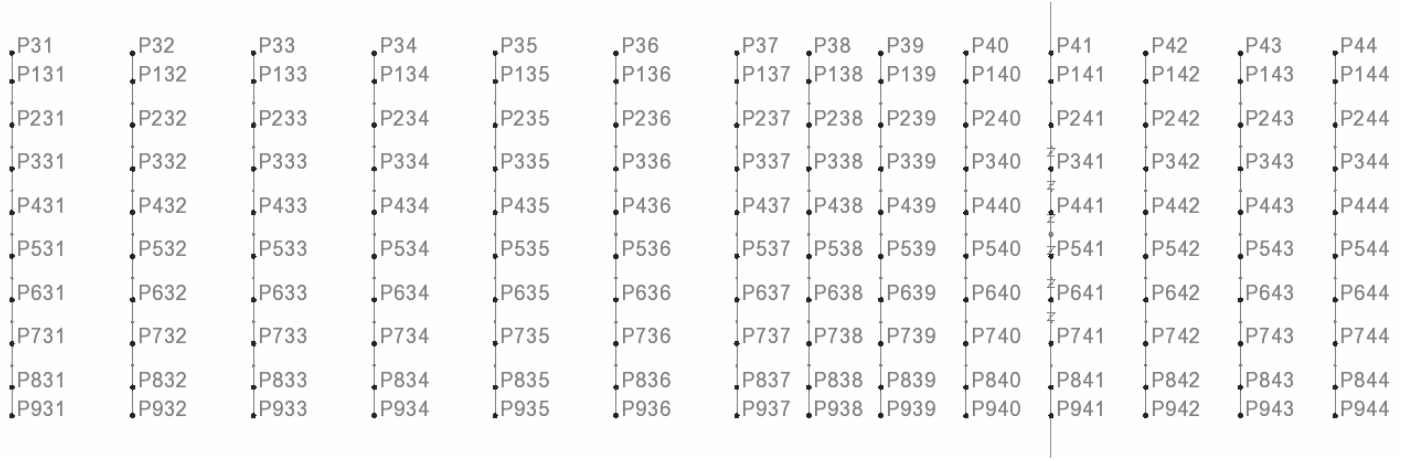


Casting stage 3 - Transversal beams UK (TB-UK):

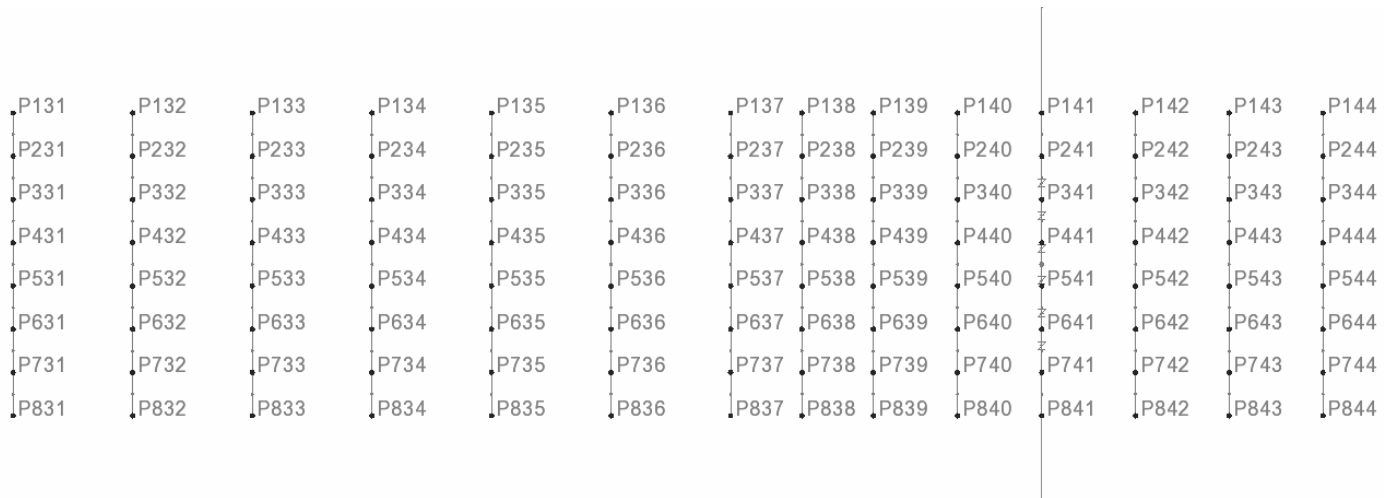


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:13 |
| | | Date : | Created : |

Casting stage 4 - Transversal beams OK (TB-OK) & Edge beams (EB):

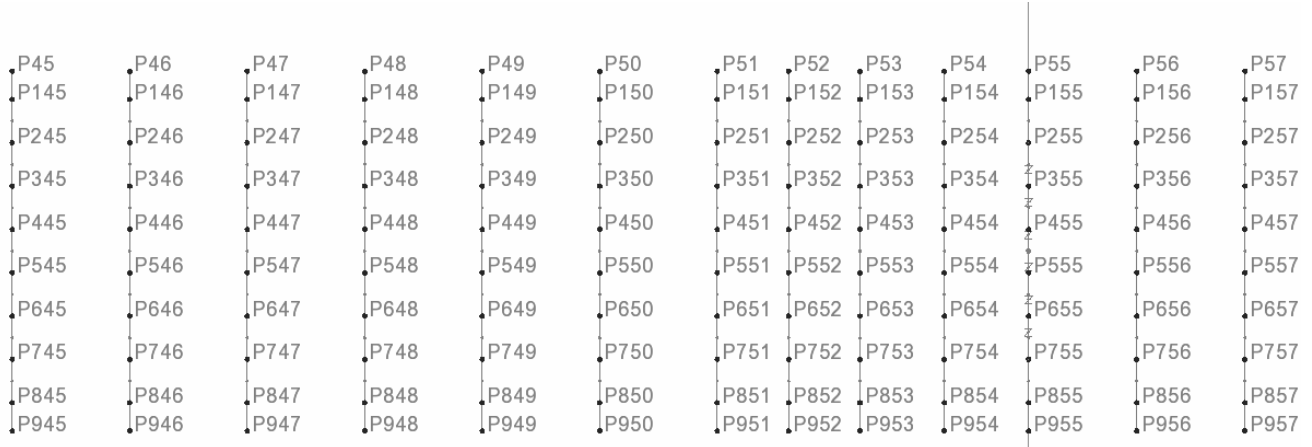


Casting stage 4 - Transversal beams UK (TB-UK):

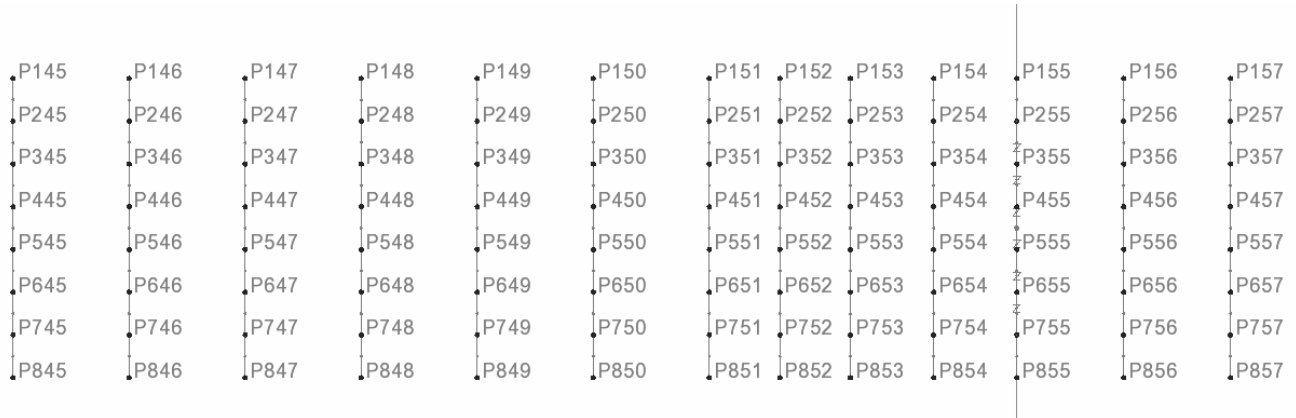


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:14 |
| | | Date : | Created : |

Casting stage 5 - Transversal beams OK (TB-OK) & Edge beams (EB):

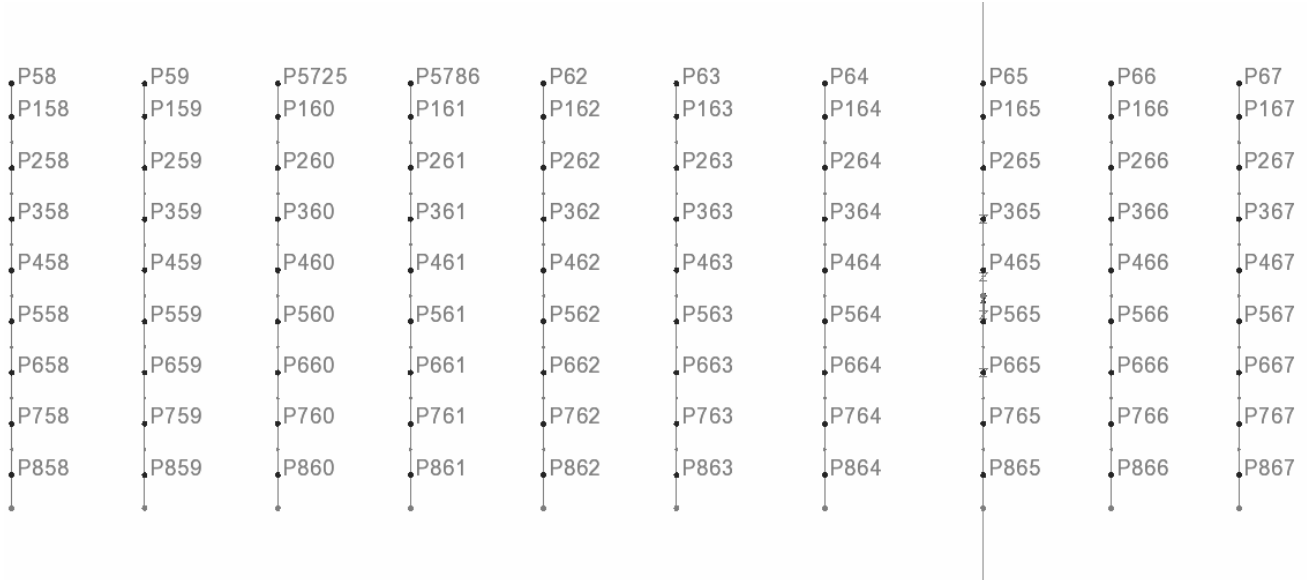


Casting stage 5 - Transversal beams UK (TB-UK):

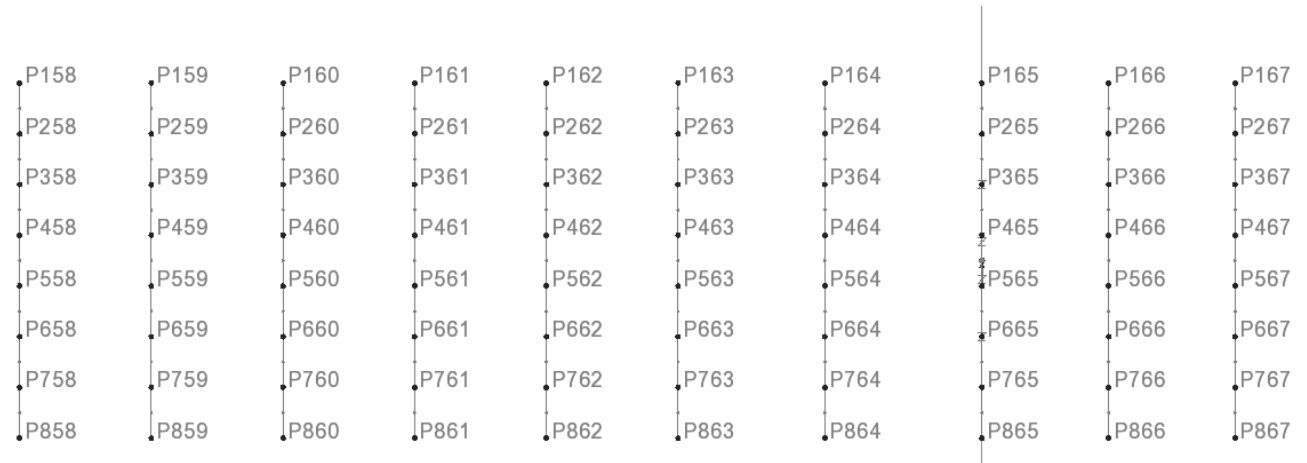


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:15 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 6 - Transversal beams OK (TB-OK) & Edge beams (EB):

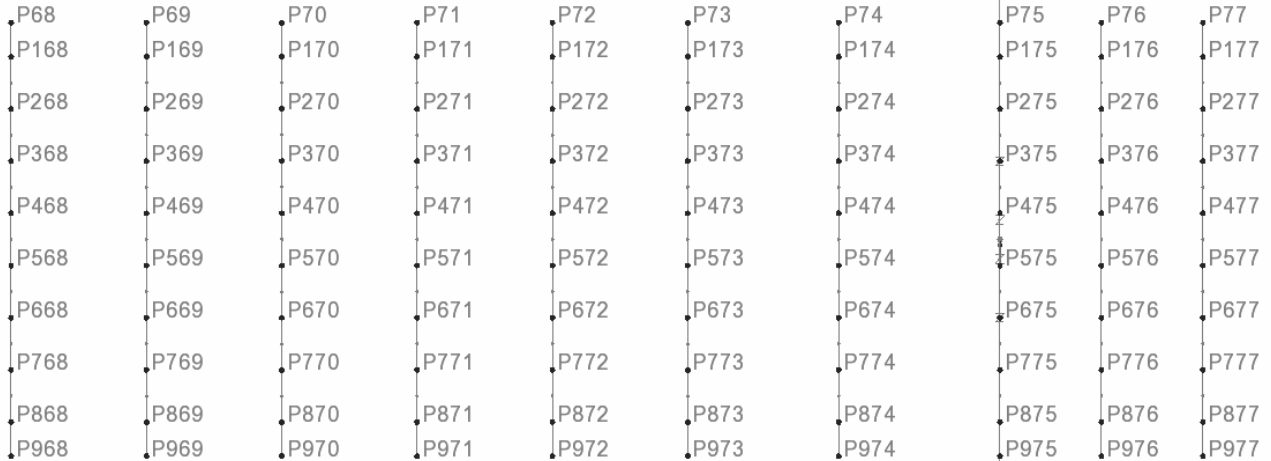


Casting stage 6 - Transversal beams UK (TB-UK):

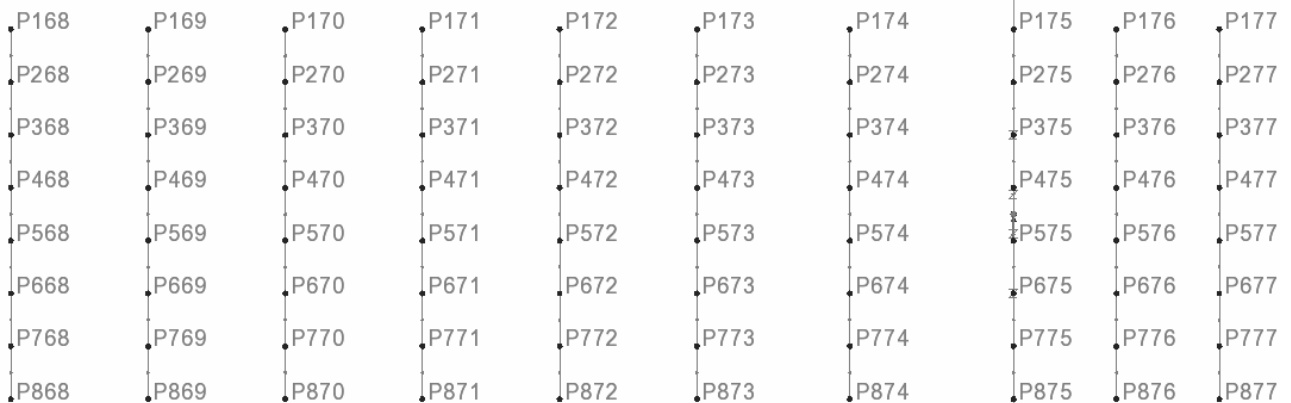


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:16 |
| | | Date : | Created : |

Casting stage 7 - Transversal beams OK (TB-OK) & Edge beams (EB):

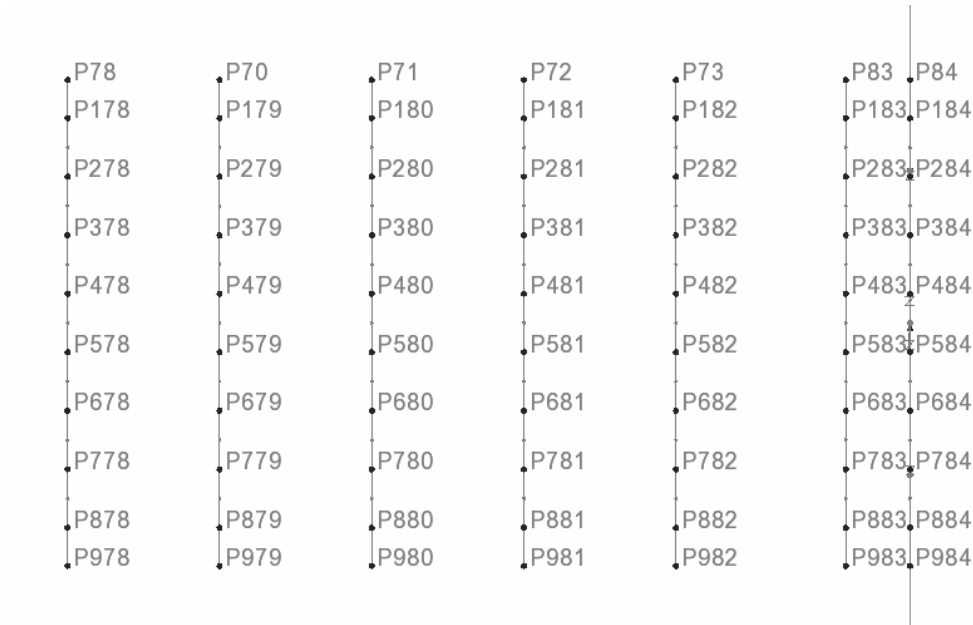


Casting stage 7 - Transversal beams UK (TB-UK):

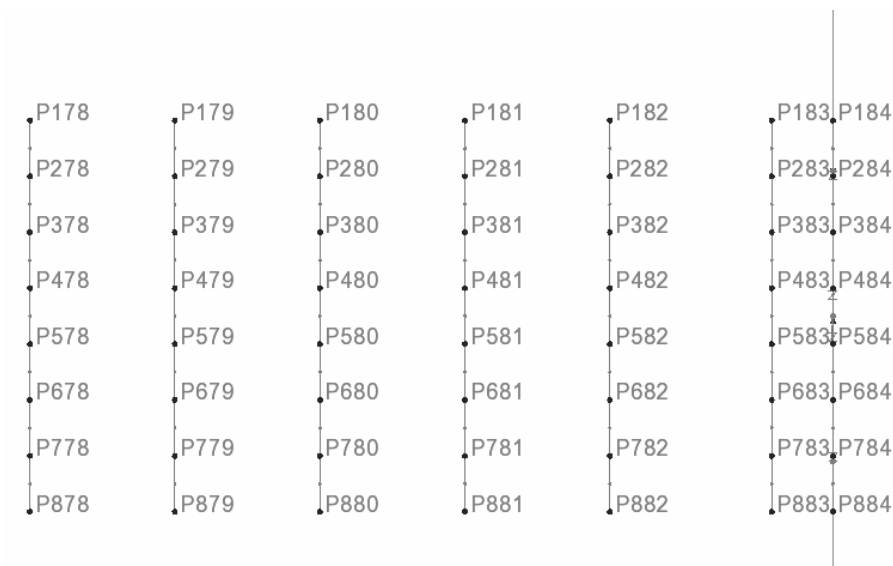


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:17 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 8 - Transversal beams OK (TB-OK) & Edge beams (EB):

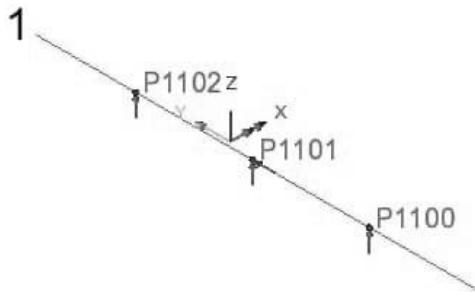
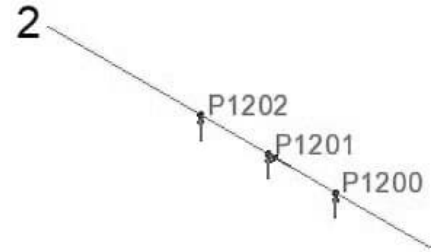


Casting stage 8 - Transversal beams UK (TB-UK):



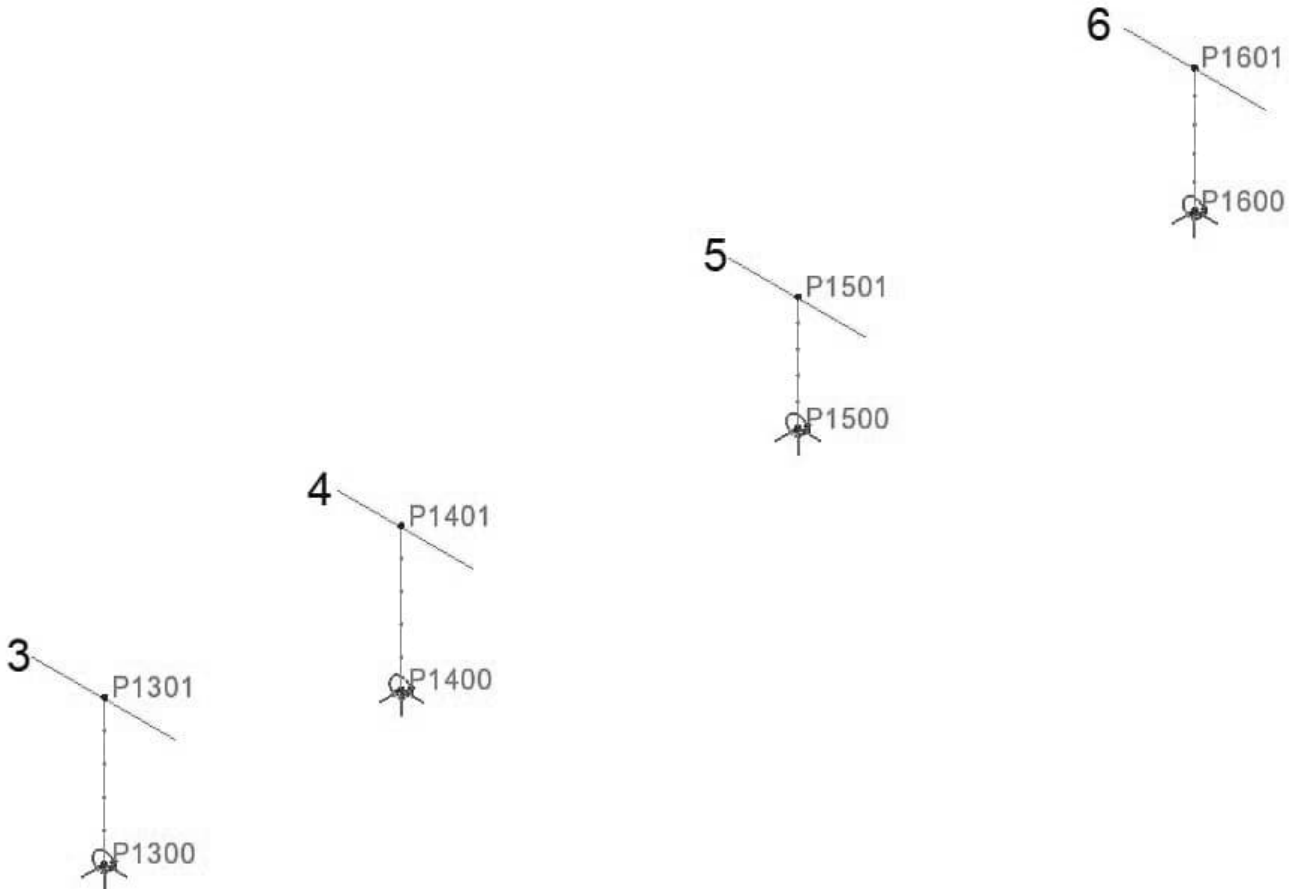
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:18 |
| | | Date : | Created : |

Supernodes & Bearings.: Supports 1-2



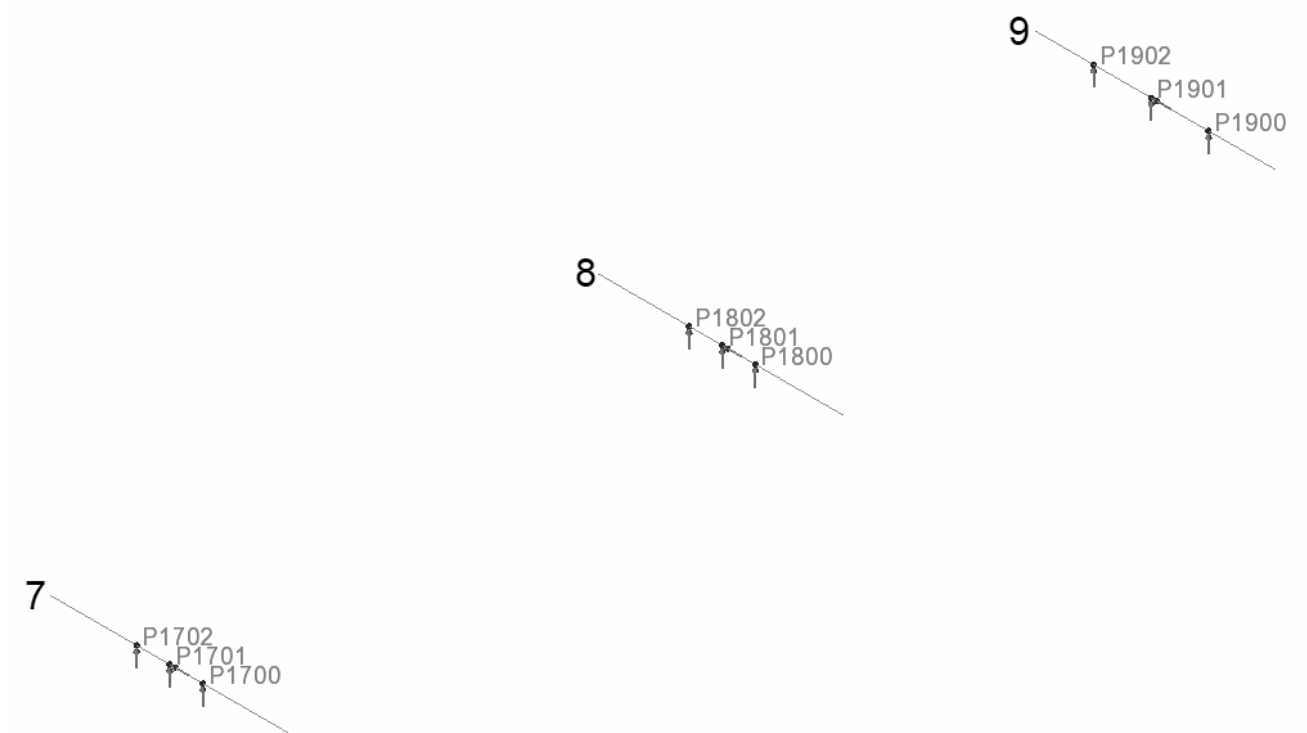
| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:19 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Columns: Supports 3-6



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:20 |
| | | Date : | Created : |

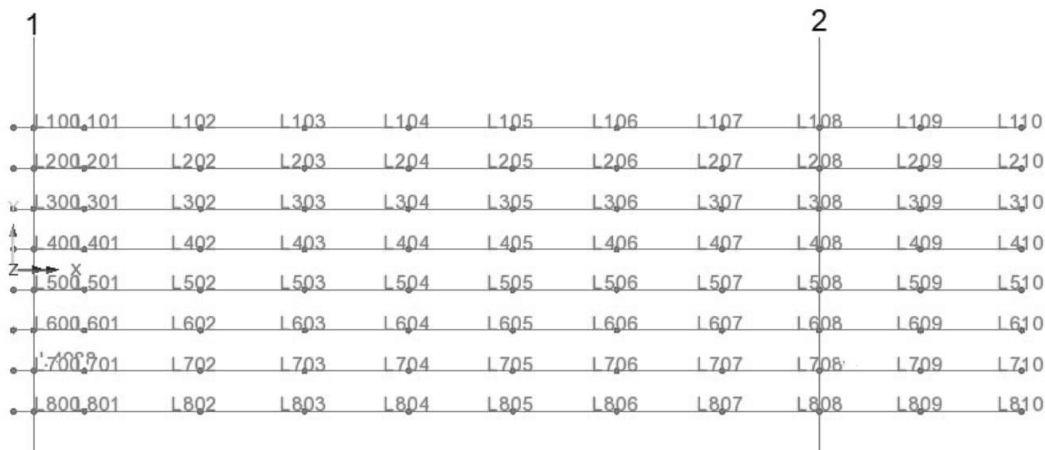
Supernodes & Bearings.: Supports 7-9



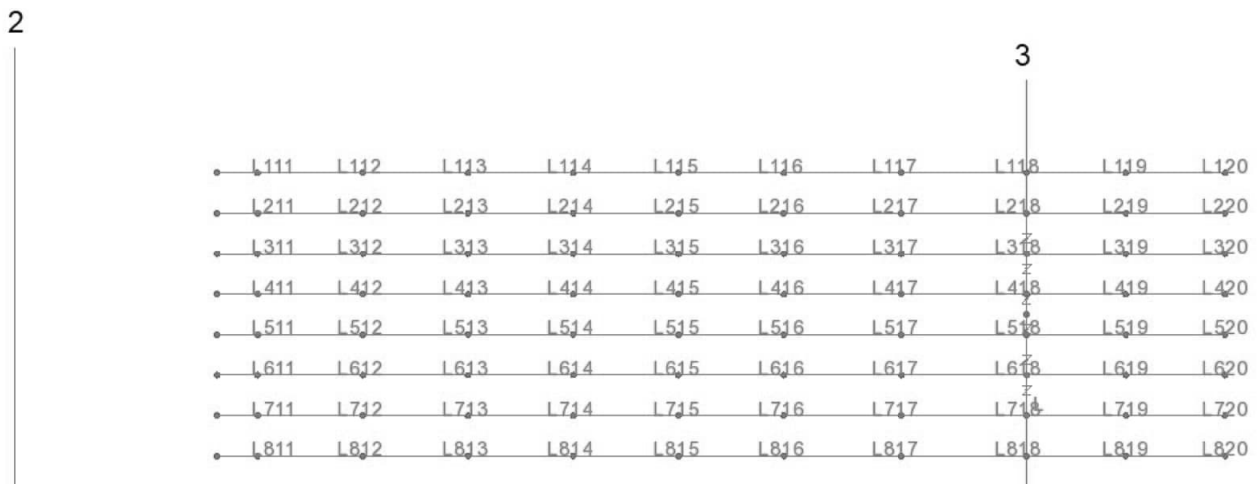
| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:21 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.2.1.2 Geometry : LINES

Casting stage 1 - Longitudinal beams (LB):

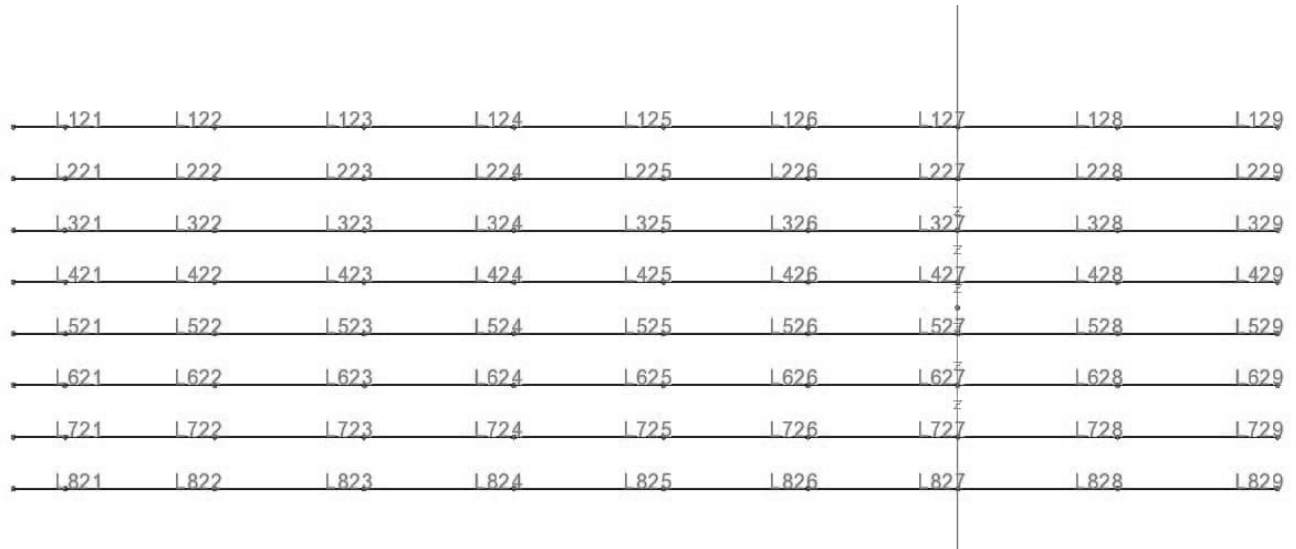


Casting stage2 - Longitudinal beams (LB):

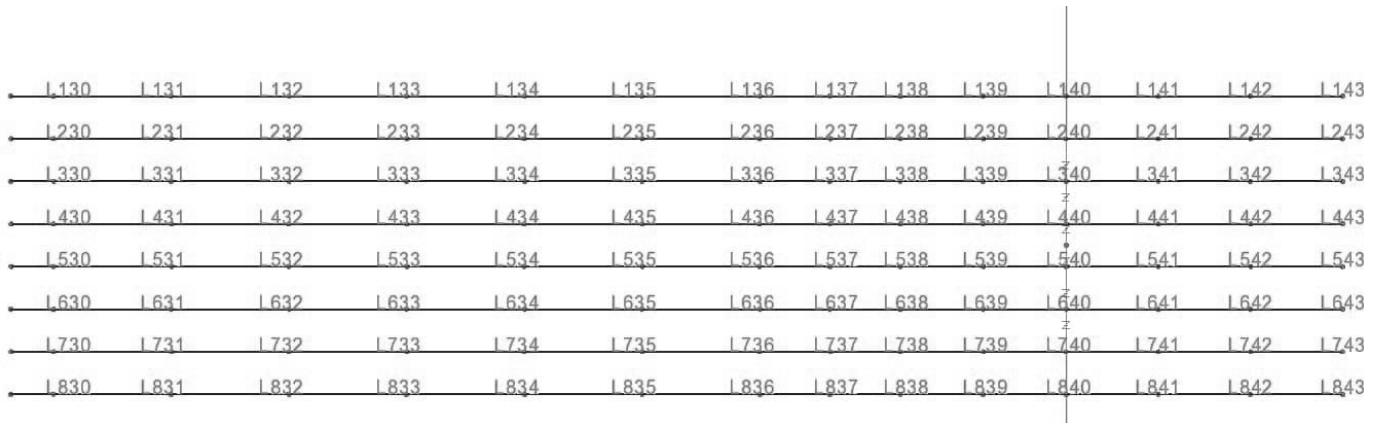


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:22 |
| | | Date : | Created : |

Casting stage 3 - Longitudinal beams (LB):



Casting stage 4 - Longitudinal beams (LB):



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:23 |
| | | Date : | Created : |

Casting stage 5 - Longitudinal beams (LB):

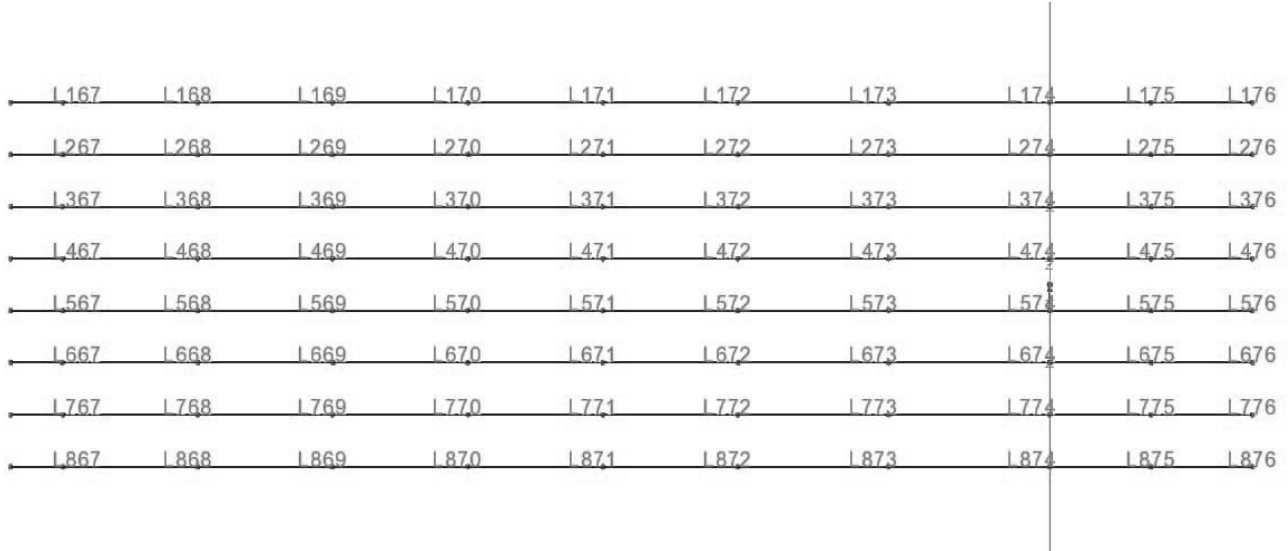
| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.144 | 1.145 | 1.146 | 1.147 | 1.148 | 1.149 | 1.150 | 1.151 | 1.152 | 1.153 | 1.154 | 1.155 | 1.156 |
| 1.244 | 1.245 | 1.246 | 1.247 | 1.248 | 1.249 | 1.250 | 1.251 | 1.252 | 1.253 | 1.254 | 1.255 | 1.256 |
| 1.344 | 1.345 | 1.346 | 1.347 | 1.348 | 1.349 | 1.350 | 1.351 | 1.352 | 1.353 | 1.354 | 1.355 | 1.356 |
| 1.444 | 1.445 | 1.446 | 1.447 | 1.448 | 1.449 | 1.450 | 1.451 | 1.452 | 1.453 | 1.454 | 1.455 | 1.456 |
| 1.544 | 1.545 | 1.546 | 1.547 | 1.548 | 1.549 | 1.550 | 1.551 | 1.552 | 1.553 | 1.554 | 1.555 | 1.556 |
| 1.644 | 1.645 | 1.646 | 1.647 | 1.648 | 1.649 | 1.650 | 1.651 | 1.652 | 1.653 | 1.654 | 1.655 | 1.656 |
| 1.744 | 1.745 | 1.746 | 1.747 | 1.748 | 1.749 | 1.750 | 1.751 | 1.752 | 1.753 | 1.754 | 1.755 | 1.756 |
| 1.844 | 1.845 | 1.846 | 1.847 | 1.848 | 1.849 | 1.850 | 1.851 | 1.852 | 1.853 | 1.854 | 1.855 | 1.856 |

Casting stage 6 - Longitudinal beams (LB):

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.157 | 1.158 | 1.159 | 1.160 | 1.161 | 1.162 | 1.163 | 1.164 | 1.165 | 1.166 |
| 1.257 | 1.258 | 1.259 | 1.260 | 1.261 | 1.262 | 1.263 | 1.264 | 1.265 | 1.266 |
| 1.357 | 1.358 | 1.359 | 1.360 | 1.361 | 1.362 | 1.363 | 1.364 | 1.365 | 1.366 |
| 1.457 | 1.458 | 1.459 | 1.460 | 1.461 | 1.462 | 1.463 | 1.464 | 1.465 | 1.466 |
| 1.557 | 1.558 | 1.559 | 1.560 | 1.561 | 1.562 | 1.563 | 1.564 | 1.565 | 1.566 |
| 1.657 | 1.658 | 1.659 | 1.660 | 1.661 | 1.662 | 1.663 | 1.664 | 1.665 | 1.666 |
| 1.757 | 1.758 | 1.759 | 1.760 | 1.761 | 1.762 | 1.763 | 1.764 | 1.765 | 1.766 |
| 1.857 | 1.858 | 1.859 | 1.860 | 1.861 | 1.862 | 1.863 | 1.864 | 1.865 | 1.866 |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:24 |
| | | Date : | Created : |

Casting stage 7 - Longitudinal beams (LB):

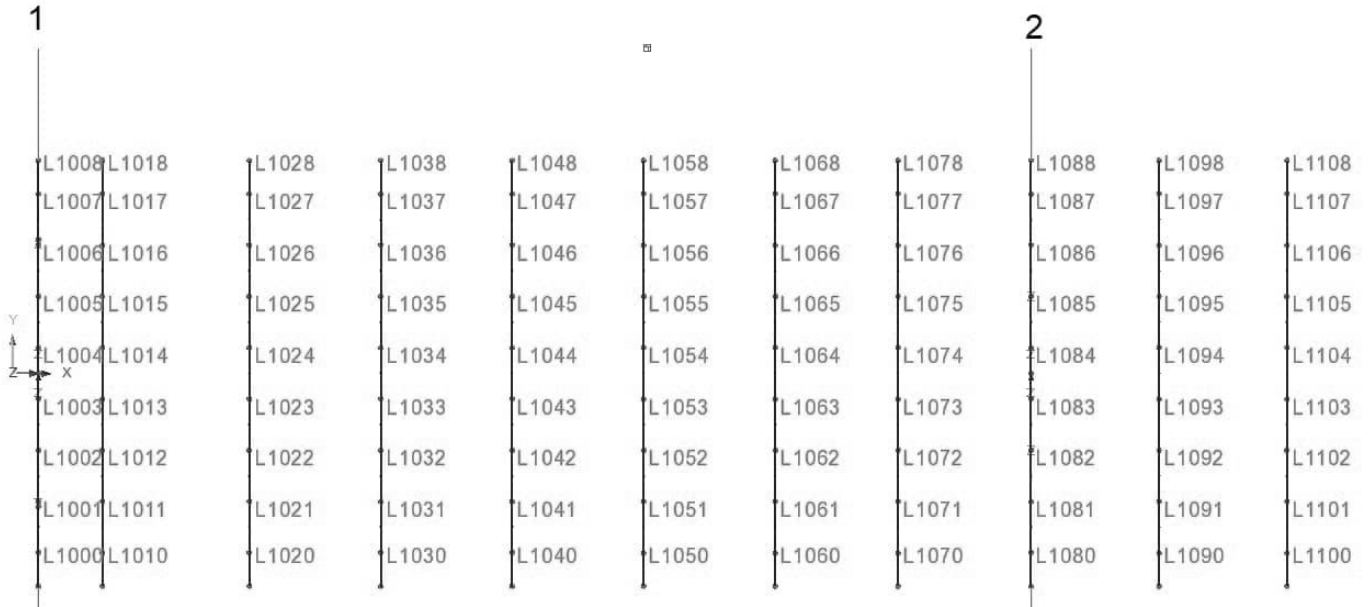


Casting stage 8 - Longitudinal beams (LB):

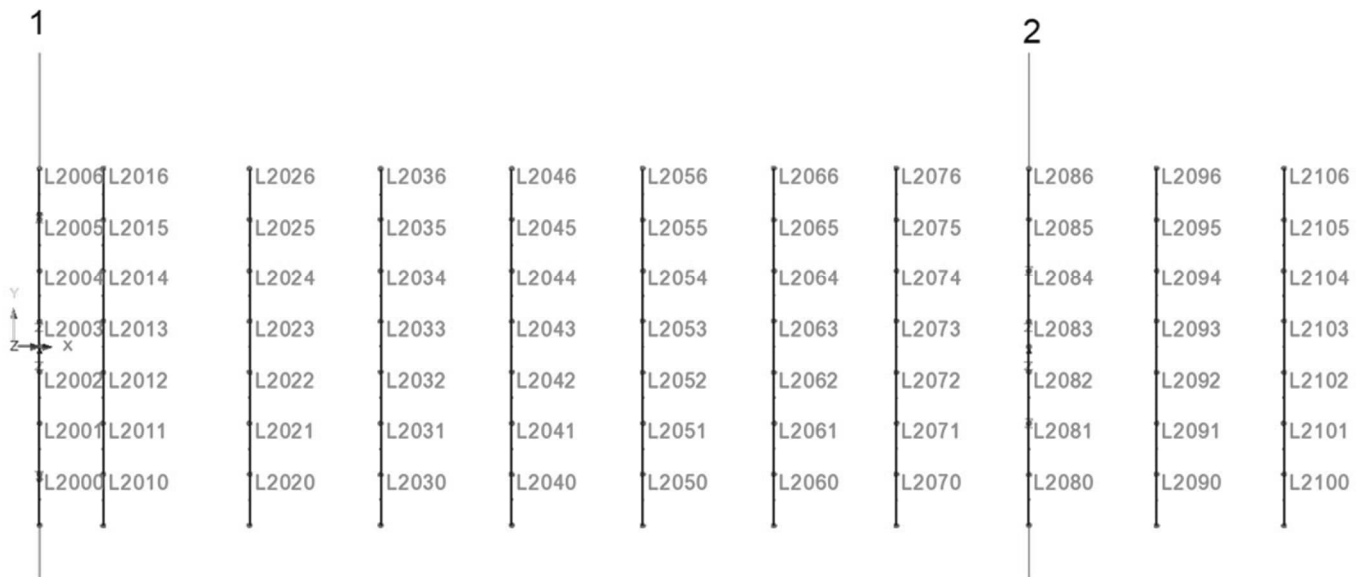


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:25 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 1 - Transversal beams OK (TB-OK) & Edge beams (EB):

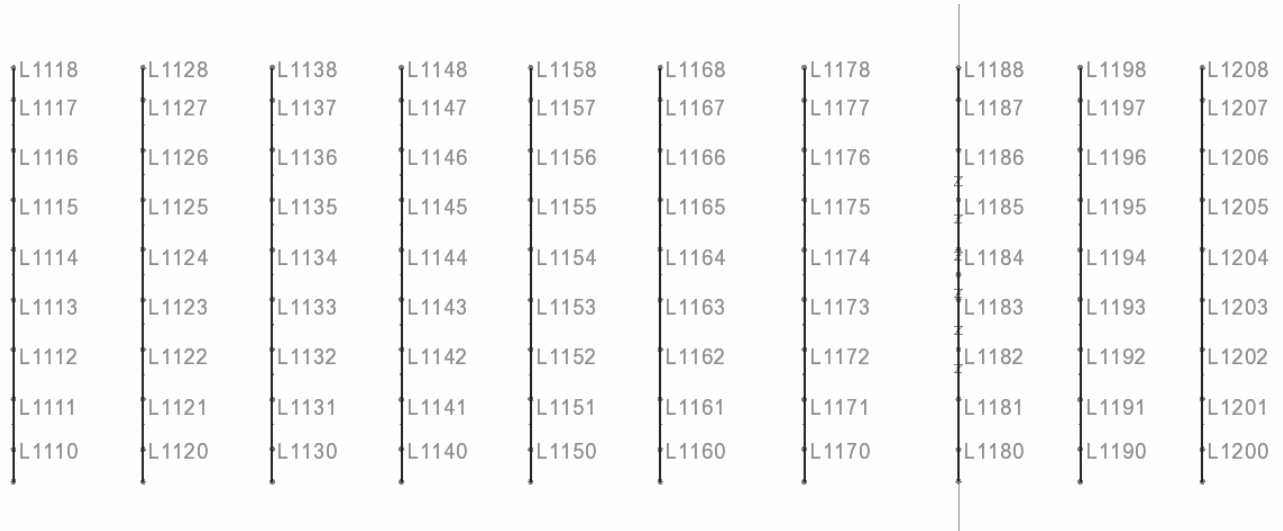


Casting stage 1 - Transversal beams UK (TB-UK):

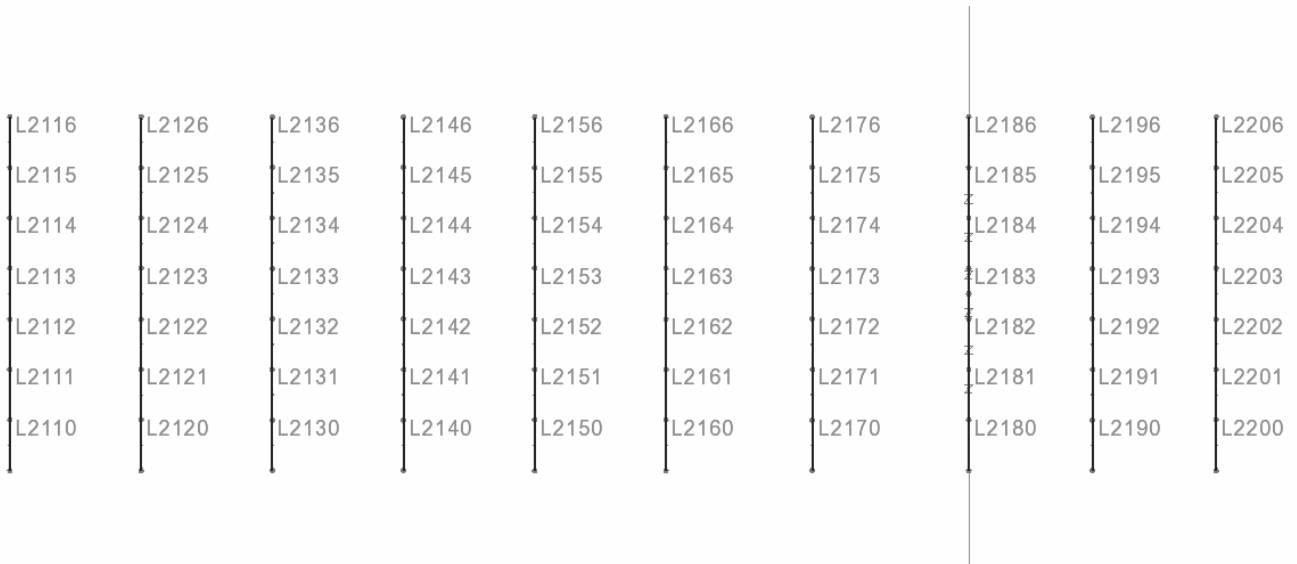


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:26 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 2 - Transversal beams OK (TB-OK) & Edge beams (EB):

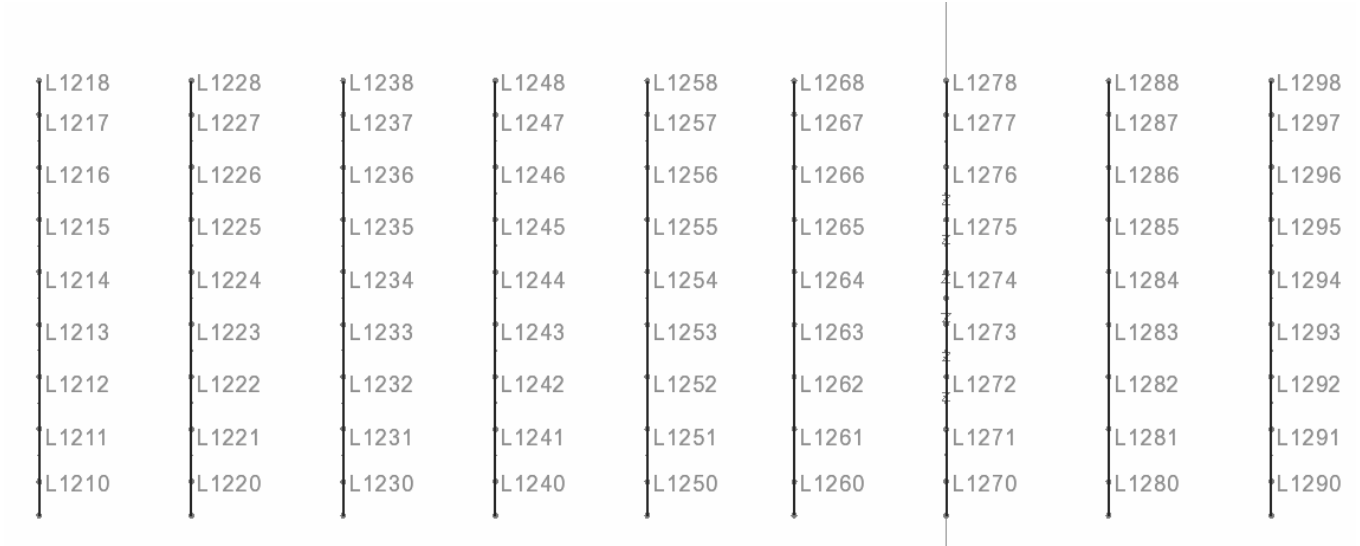


Casting stage 2 - Transversal beams UK (TB-UK):

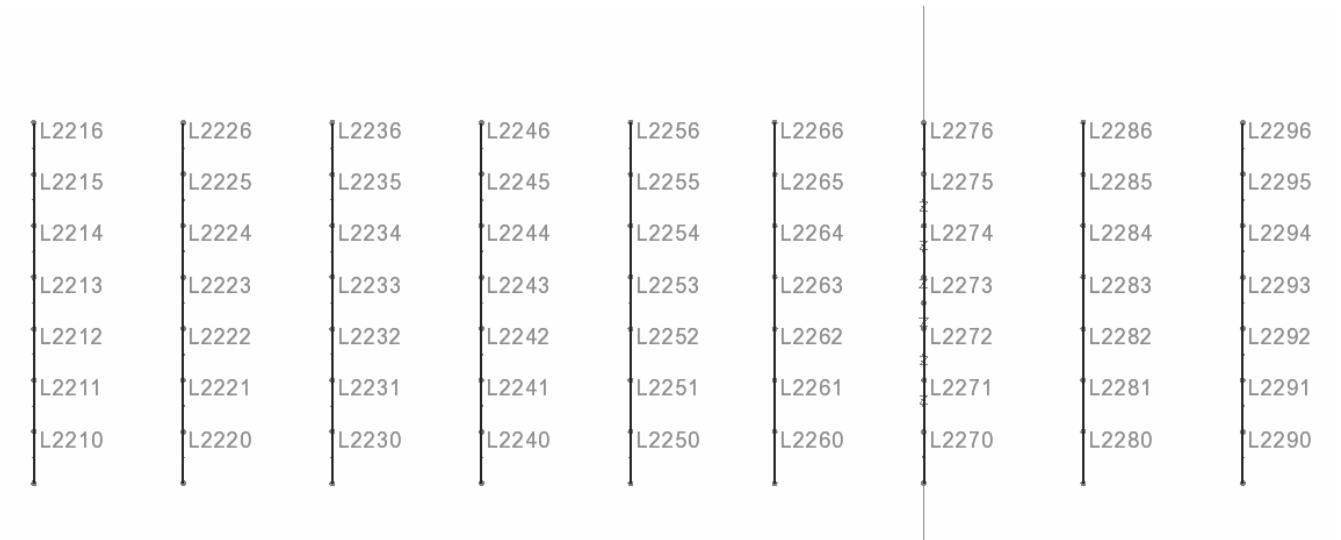


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:27 |
| | | Date : | Created : |

Casting stage 3 - Transversal beams OK (TB-OK) & Edge beams (EB):



Casting stage 3 - Transversal beams UK (TB-UK):



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:28 |
| | | Date : | Created : |

Casting stage 4 - Transversal beams OK (TB-OK) & Edge beams (EB):

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1308 | L1318 | L1328 | L1338 | L1348 | L1358 | L1368 | L1378 | L1388 | L1398 | L1408 | L1418 | L1428 | L1438 |
| L1307 | L1317 | L1327 | L1337 | L1347 | L1357 | L1367 | L1377 | L1387 | L1397 | L1407 | L1417 | L1427 | L1437 |
| L1306 | L1316 | L1326 | L1336 | L1346 | L1356 | L1366 | L1376 | L1386 | L1396 | L1406 | L1416 | L1426 | L1436 |
| L1305 | L1315 | L1325 | L1335 | L1345 | L1355 | L1365 | L1375 | L1385 | L1395 | L1405 | L1415 | L1425 | L1435 |
| L1304 | L1314 | L1324 | L1334 | L1344 | L1354 | L1364 | L1374 | L1384 | L1394 | L1404 | L1414 | L1424 | L1434 |
| L1303 | L1313 | L1323 | L1333 | L1343 | L1353 | L1363 | L1373 | L1383 | L1393 | L1403 | L1413 | L1423 | L1433 |
| L1302 | L1312 | L1322 | L1332 | L1342 | L1352 | L1362 | L1372 | L1382 | L1392 | L1402 | L1412 | L1422 | L1432 |
| L1301 | L1311 | L1321 | L1331 | L1341 | L1351 | L1361 | L1371 | L1381 | L1391 | L1401 | L1411 | L1421 | L1431 |
| L1300 | L1310 | L1320 | L1330 | L1340 | L1350 | L1360 | L1370 | L1380 | L1390 | L1400 | L1410 | L1420 | L1430 |

Casting stage 4 - Transversal beams UK (TB-UK):

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2306 | L2316 | L2326 | L2336 | L2346 | L2356 | L2366 | L2376 | L2386 | L2396 | L2406 | L2416 | L2426 | L2436 |
| L2305 | L2315 | L2325 | L2335 | L2345 | L2355 | L2365 | L2375 | L2385 | L2395 | L2405 | L2415 | L2425 | L2435 |
| L2304 | L2314 | L2324 | L2334 | L2344 | L2354 | L2364 | L2374 | L2384 | L2394 | L2404 | L2414 | L2424 | L2434 |
| L2303 | L2313 | L2323 | L2333 | L2343 | L2353 | L2363 | L2373 | L2383 | L2393 | L2403 | L2413 | L2423 | L2433 |
| L2302 | L2312 | L2322 | L2332 | L2342 | L2352 | L2362 | L2372 | L2382 | L2392 | L2402 | L2412 | L2422 | L2432 |
| L2301 | L2311 | L2321 | L2331 | L2341 | L2351 | L2361 | L2371 | L2381 | L2391 | L2401 | L2411 | L2421 | L2431 |
| L2300 | L2310 | L2320 | L2330 | L2340 | L2350 | L2360 | L2370 | L2380 | L2390 | L2400 | L2410 | L2420 | L2430 |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:29 |
| | | Date : | Created : |

Casting stage 5 - Transversal beams OK (TB-OK) & Edge beams (EB):

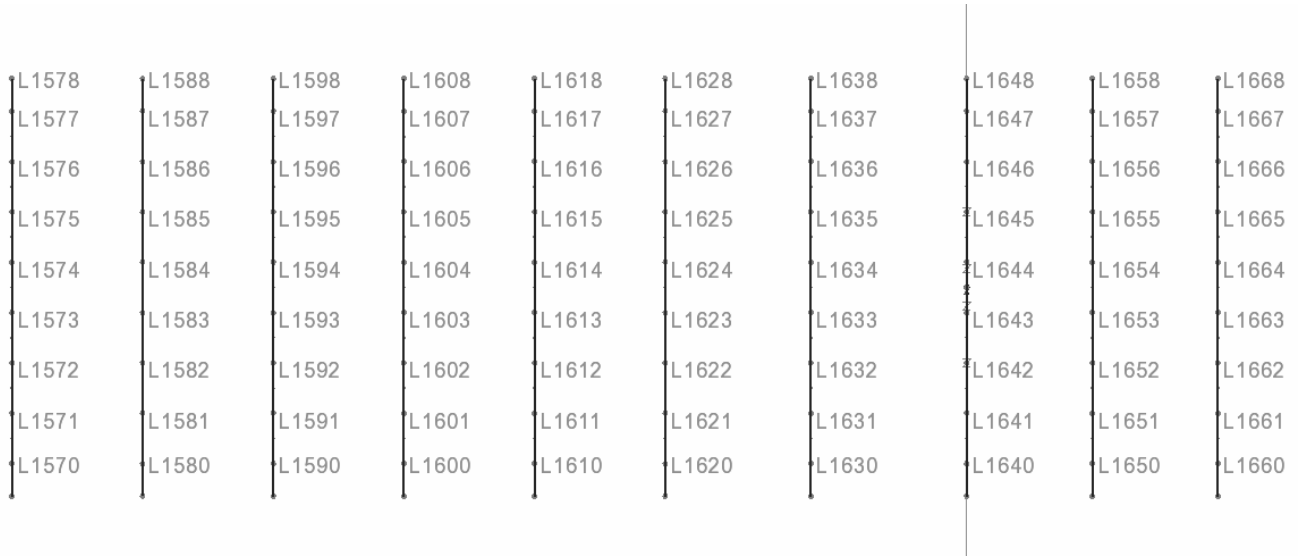
| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1448 | L1458 | L1468 | L1478 | L1488 | L1498 | L1508 | L1518 | L1528 | L1538 | L1548 | L1558 | L1568 |
| L1447 | L1457 | L1467 | L1477 | L1487 | L1497 | L1507 | L1517 | L1527 | L1537 | L1547 | L1557 | L1567 |
| L1446 | L1456 | L1466 | L1476 | L1486 | L1496 | L1506 | L1516 | L1526 | L1536 | L1546 | L1556 | L1566 |
| L1445 | L1455 | L1465 | L1475 | L1485 | L1495 | L1505 | L1515 | L1525 | L1535 | L1545 | L1555 | L1565 |
| L1444 | L1454 | L1464 | L1474 | L1484 | L1494 | L1504 | L1514 | L1524 | L1534 | L1544 | L1554 | L1564 |
| L1443 | L1453 | L1463 | L1473 | L1483 | L1493 | L1503 | L1513 | L1523 | L1533 | L1543 | L1553 | L1563 |
| L1442 | L1452 | L1462 | L1472 | L1482 | L1492 | L1502 | L1512 | L1522 | L1532 | L1542 | L1552 | L1562 |
| L1441 | L1451 | L1461 | L1471 | L1481 | L1491 | L1501 | L1511 | L1521 | L1531 | L1541 | L1551 | L1561 |
| L1440 | L1450 | L1460 | L1470 | L1480 | L1490 | L1500 | L1510 | L1520 | L1530 | L1540 | L1550 | L1560 |

Casting stage 5 - Transversal beams UK (TB-UK):

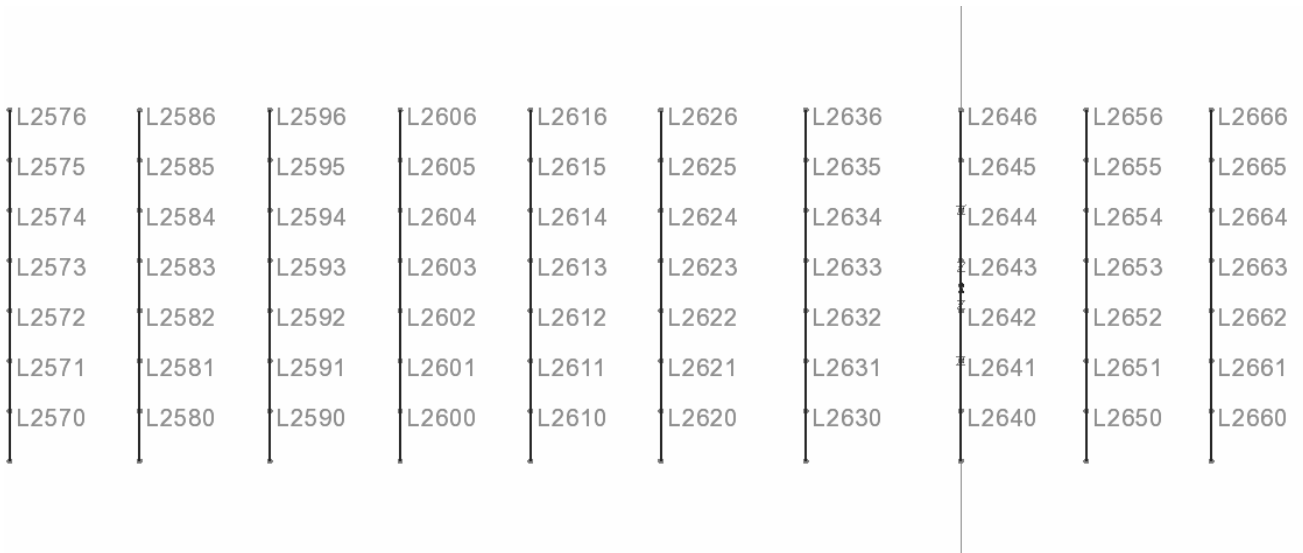
| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L2446 | L2456 | L2466 | L2476 | L2486 | L2496 | L2506 | L2516 | L2526 | L2536 | L2546 | L2556 | L2566 |
| L2445 | L2455 | L2465 | L2475 | L2485 | L2495 | L2505 | L2515 | L2525 | L2535 | L2545 | L2555 | L2565 |
| L2444 | L2454 | L2464 | L2474 | L2484 | L2494 | L2504 | L2514 | L2524 | L2534 | L2544 | L2554 | L2564 |
| L2443 | L2453 | L2463 | L2473 | L2483 | L2493 | L2503 | L2513 | L2523 | L2533 | L2543 | L2553 | L2563 |
| L2442 | L2452 | L2462 | L2472 | L2482 | L2492 | L2502 | L2512 | L2522 | L2532 | L2542 | L2552 | L2562 |
| L2441 | L2451 | L2461 | L2471 | L2481 | L2491 | L2501 | L2511 | L2521 | L2531 | L2541 | L2551 | L2561 |
| L2440 | L2450 | L2460 | L2470 | L2480 | L2490 | L2500 | L2510 | L2520 | L2530 | L2540 | L2550 | L2560 |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:30 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 6 - Transversal beams OK (TB-OK) & Edge beams (EB):



Casting stage 6 - Transversal beams UK (TB-UK):

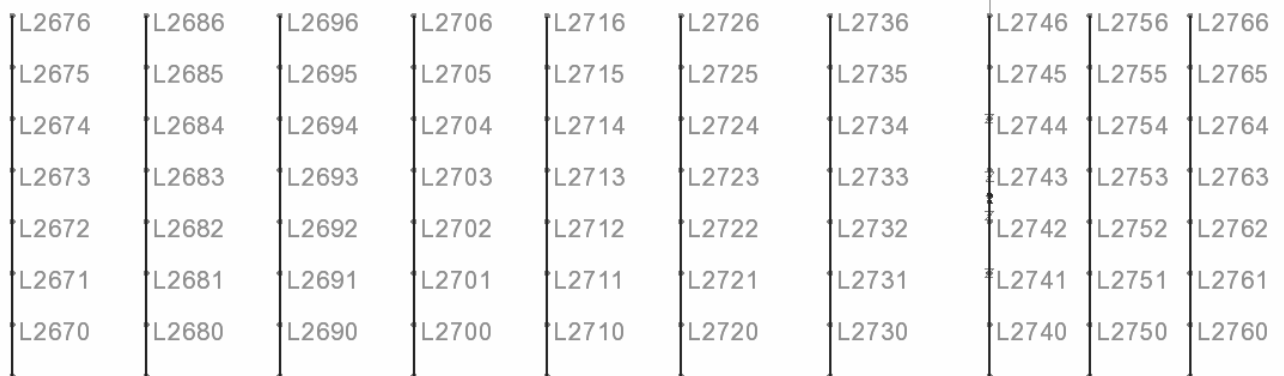


| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:31 |
| | | Date : | Created : |

Casting stage 7 - Transversal beams OK (TB-OK) & Edge beams (EB):

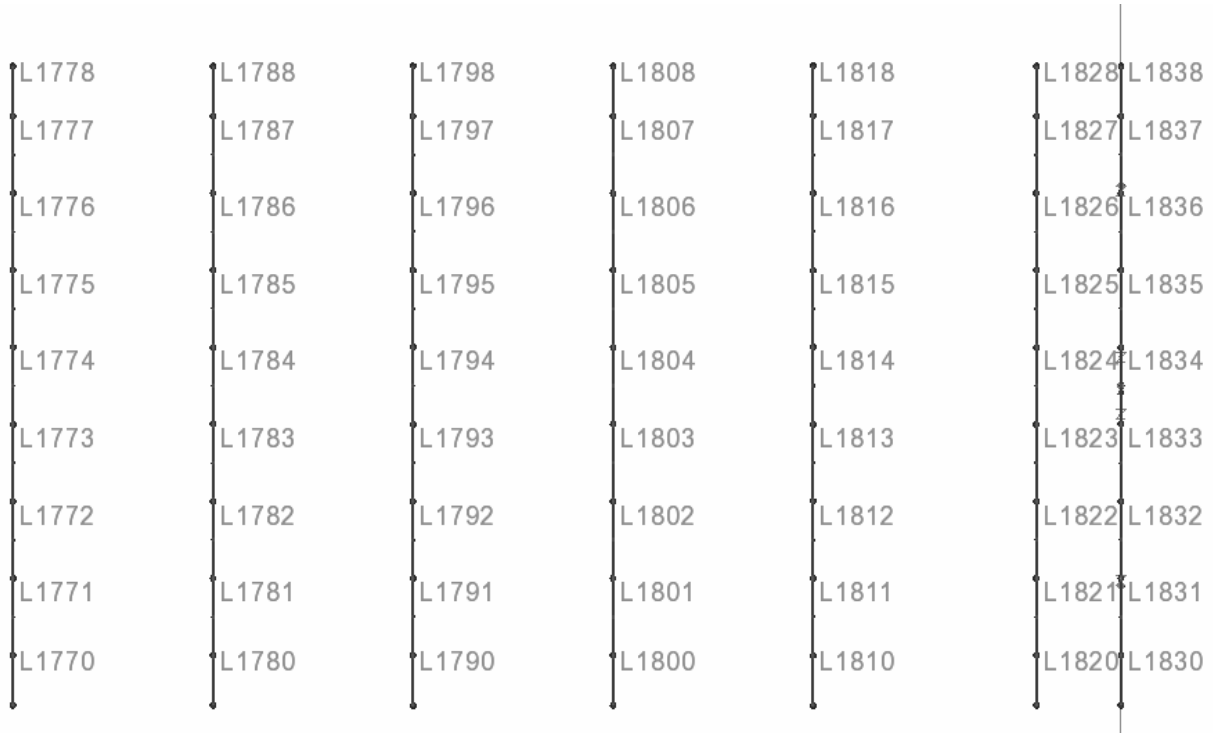


Casting stage 7 - Transversal beams UK (TB-UK):

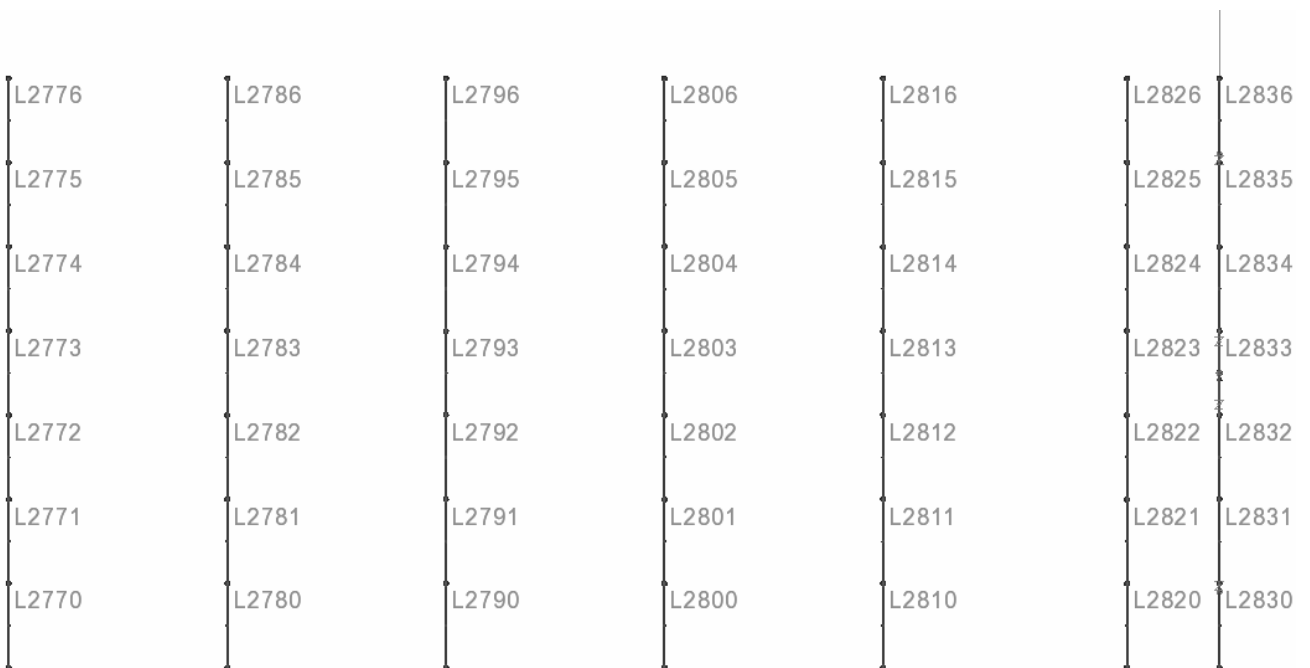


| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:32 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 8 - Transversal beams OK (TB-OK) & Edge beams (EB):

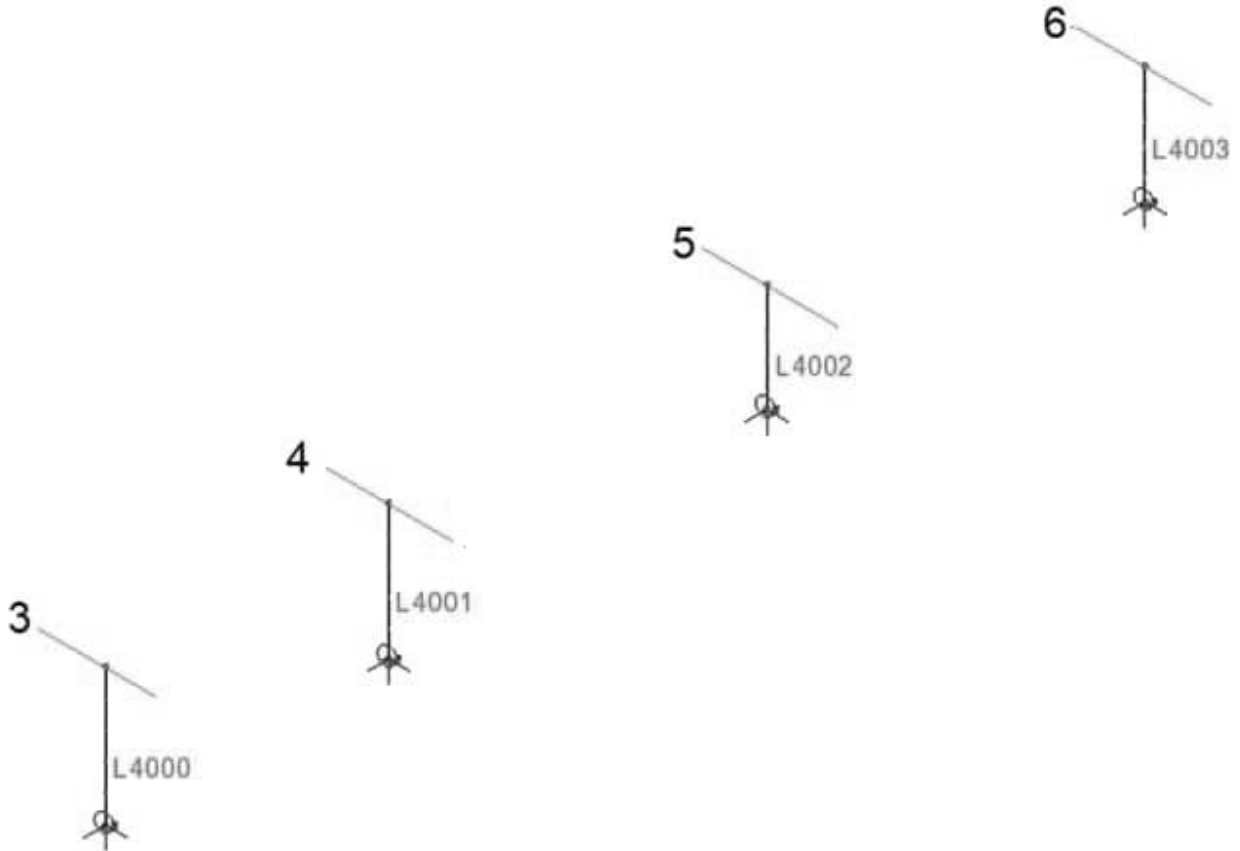


Casting stage 8 - Transversal beams UK (TB-UK):



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:33 |
| | | Date : | Created : |

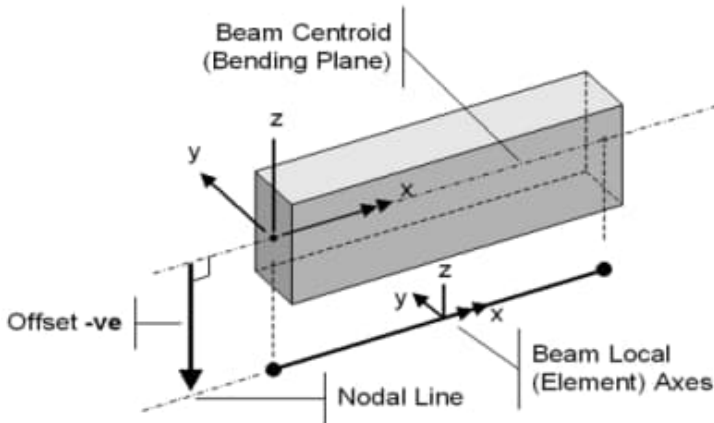
Columns: Supports 3-6



| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:34 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3 CROSS SECTION PROPERTIES

Principal sketch of geometry associated to 3D beam ("Thick beam" / BMS3) elements are seen below.



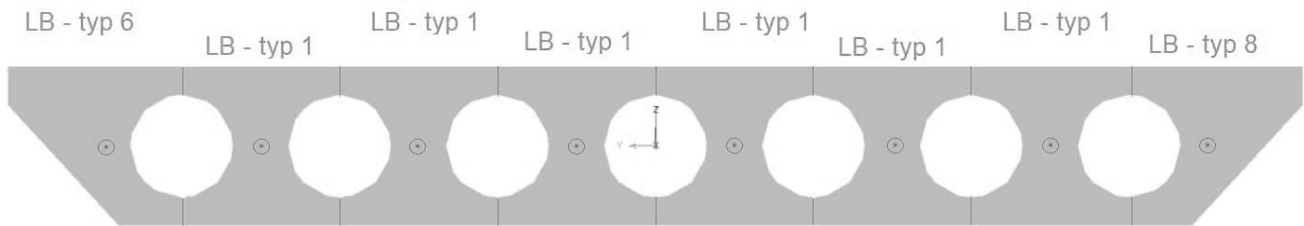
| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:35 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1 Longitudinal beams (LB)

There are a total of 8 different types according to the reporting below.

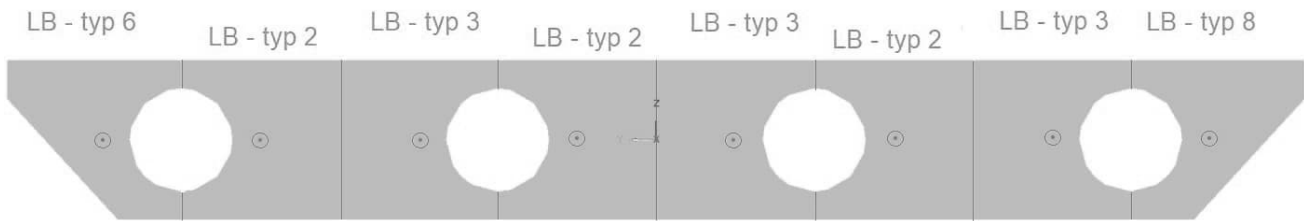
The main beams are defined with a cross-section labeled “Arbitrary Section.” Cross-section constants are determined using the function “*Section Property Calculator.*”

In order to avoid torsion in the beam, a fictitious torsional stiffness corresponding to $K_v = 10^{-6} \text{ m}^4$ is manually introduced.



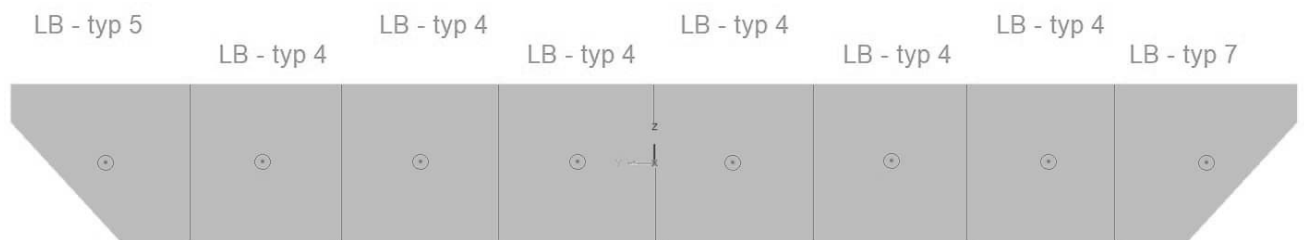
TYPE SECTION 1

Cross section with 8 void tubes.



TYPE SECTION 2

Cross section with 4 void tubes.

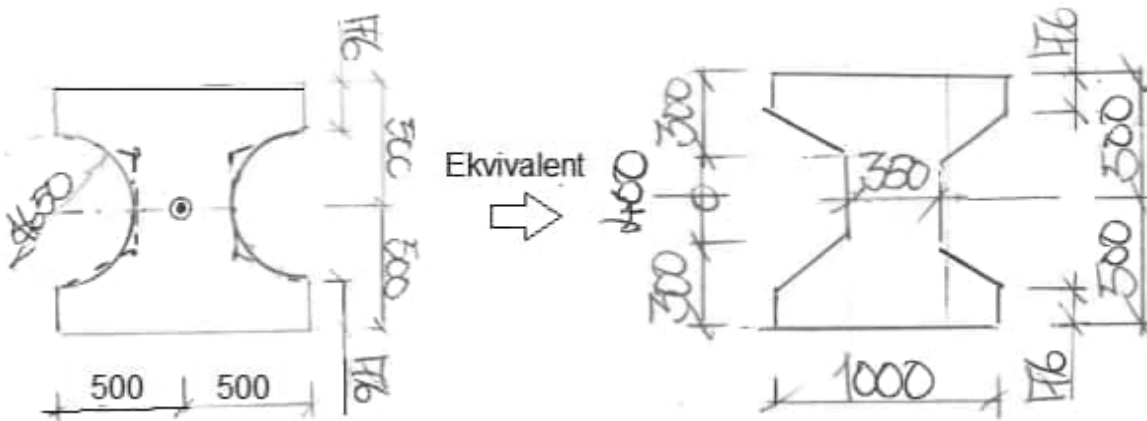


TYPE SECTION 3

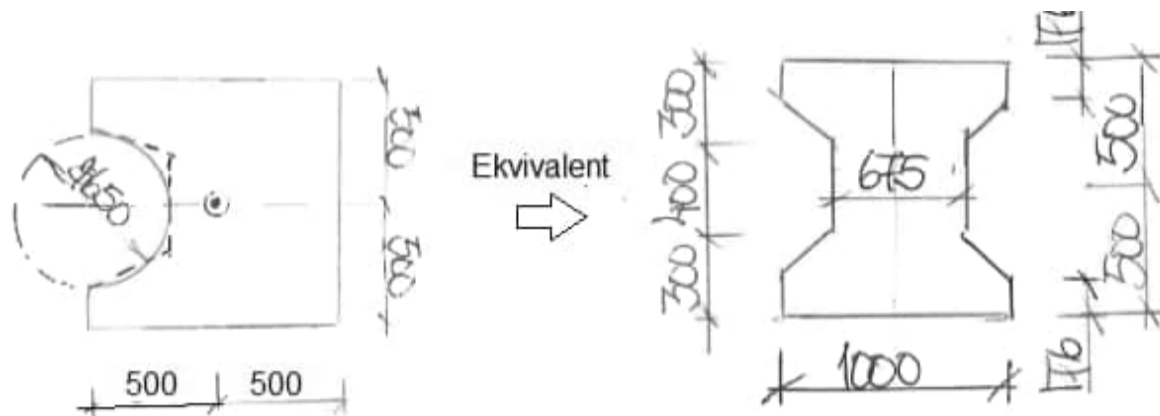
Massive cross section.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:36 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

The geometry of these beams is presented below. In the check of resistance, however, simplified equivalent cross sections are applied.

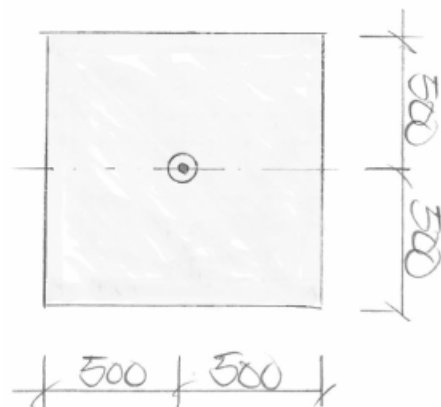


LB – type 1



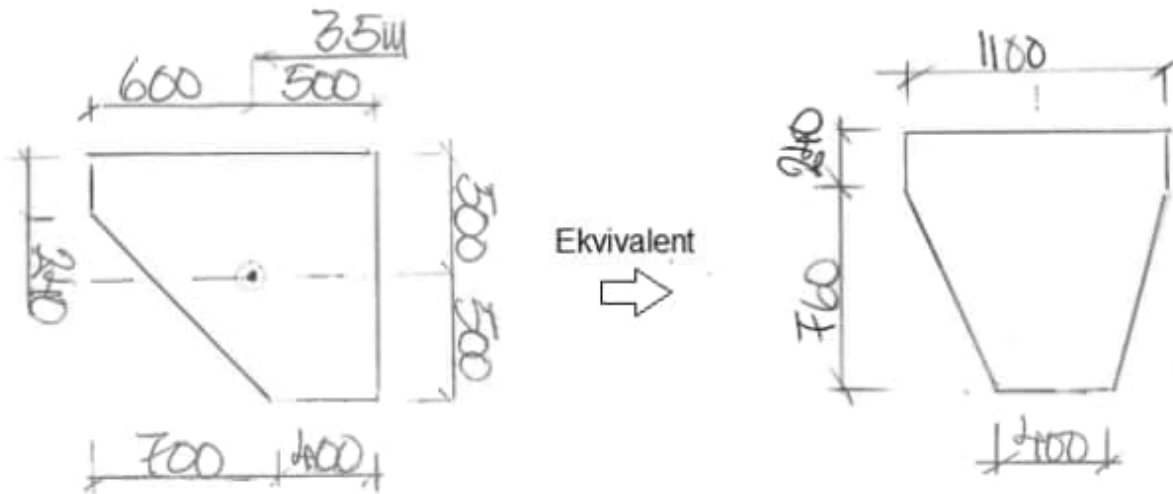
LB – type 2

Measurements same for LB – typ 3



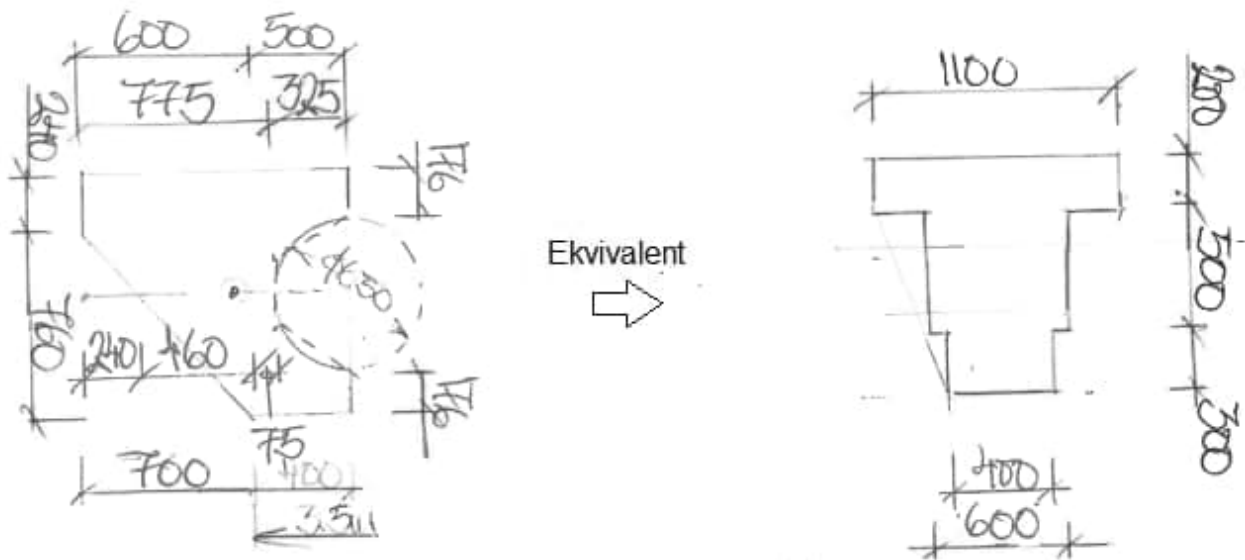
LB – type 4

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:37 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



LB – type 5

Measurements same as LB – typ 7

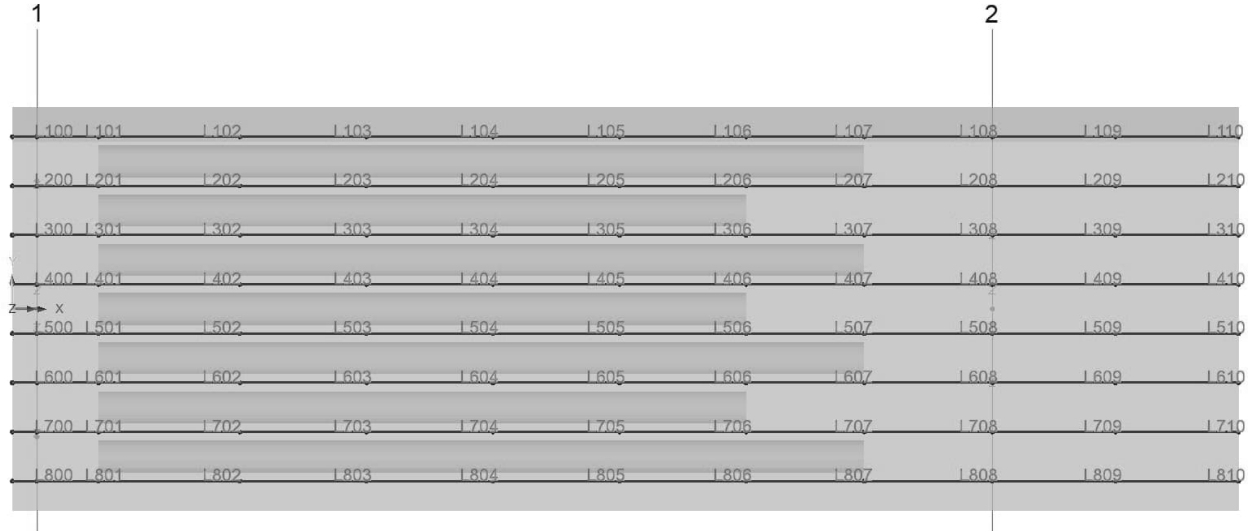


LB – type 6

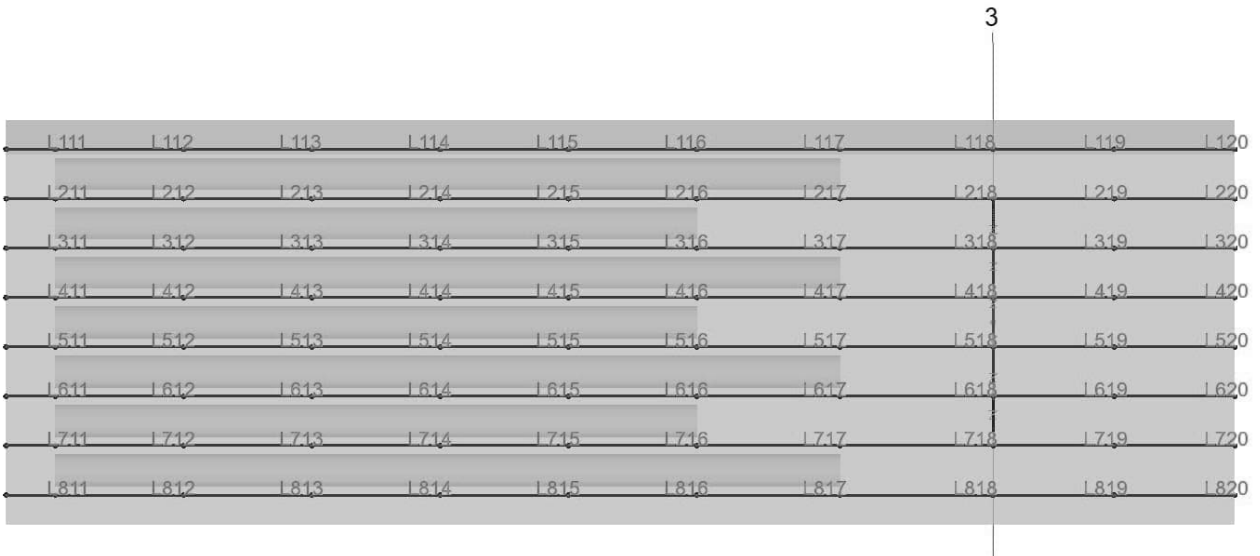
Measurements as LB – type 8

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:38 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 1 - Longitudinal beams (LB):



Casting stage 2 - Longitudinal beams (LB):



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:39 |
| | | Date : | Created : |

Casting stage 3 - Longitudinal beams (LB):

4

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.121 | 1.122 | 1.123 | 1.124 | 1.125 | 1.126 | 1.127 | 1.128 | 1.129 |
| 1.221 | 1.222 | 1.223 | 1.224 | 1.225 | 1.226 | 1.227 | 1.228 | 1.229 |
| 1.321 | 1.322 | 1.323 | 1.324 | 1.325 | 1.326 | 1.327 | 1.328 | 1.329 |
| 1.421 | 1.422 | 1.423 | 1.424 | 1.425 | 1.426 | 1.427 | 1.428 | 1.429 |
| 1.521 | 1.522 | 1.523 | 1.524 | 1.525 | 1.526 | 1.527 | 1.528 | 1.529 |
| 1.621 | 1.622 | 1.623 | 1.624 | 1.625 | 1.626 | 1.627 | 1.628 | 1.629 |
| 1.721 | 1.722 | 1.723 | 1.724 | 1.725 | 1.726 | 1.727 | 1.728 | 1.729 |
| 1.821 | 1.822 | 1.823 | 1.824 | 1.825 | 1.826 | 1.827 | 1.828 | 1.829 |

Casting stage 4 - Longitudinal beams (LB):

5

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.130 | 1.131 | 1.132 | 1.133 | 1.134 | 1.135 | 1.136 | 1.137 | 1.138 | 1.139 | 1.140 | 1.141 | 1.142 | 1.143 |
| 1.230 | 1.231 | 1.232 | 1.233 | 1.234 | 1.235 | 1.236 | 1.237 | 1.238 | 1.239 | 1.240 | 1.241 | 1.242 | 1.243 |
| 1.330 | 1.331 | 1.332 | 1.333 | 1.334 | 1.335 | 1.336 | 1.337 | 1.338 | 1.339 | 1.340 | 1.341 | 1.342 | 1.343 |
| 1.430 | 1.431 | 1.432 | 1.433 | 1.434 | 1.435 | 1.436 | 1.437 | 1.438 | 1.439 | 1.440 | 1.441 | 1.442 | 1.443 |
| 1.530 | 1.531 | 1.532 | 1.533 | 1.534 | 1.535 | 1.536 | 1.537 | 1.538 | 1.539 | 1.540 | 1.541 | 1.542 | 1.543 |
| 1.630 | 1.631 | 1.632 | 1.633 | 1.634 | 1.635 | 1.636 | 1.637 | 1.638 | 1.639 | 1.640 | 1.641 | 1.642 | 1.643 |
| 1.730 | 1.731 | 1.732 | 1.733 | 1.734 | 1.735 | 1.736 | 1.737 | 1.738 | 1.739 | 1.740 | 1.741 | 1.742 | 1.743 |
| 1.830 | 1.831 | 1.832 | 1.833 | 1.834 | 1.835 | 1.836 | 1.837 | 1.838 | 1.839 | 1.840 | 1.841 | 1.842 | 1.843 |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:40 |
| | | Date : | Created : |

Casting stage 5 - Longitudinal beams (LB):

6

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L144 | L145 | L146 | L147 | L148 | L149 | L150 | L151 | L152 | L153 | L154 | L155 | L156 |
| L244 | L245 | L246 | L247 | L248 | L249 | L250 | L251 | L252 | L253 | L254 | L255 | L256 |
| L344 | L345 | L346 | L347 | L348 | L349 | L350 | L351 | L352 | L353 | L354 | L355 | L356 |
| L444 | L445 | L446 | L447 | L448 | L449 | L450 | L451 | L452 | L453 | L454 | L455 | L456 |
| L544 | L545 | L546 | L547 | L548 | L549 | L550 | L551 | L552 | L553 | L554 | L555 | L556 |
| L644 | L645 | L646 | L647 | L648 | L649 | L650 | L651 | L652 | L653 | L654 | L655 | L656 |
| L744 | L745 | L746 | L747 | L748 | L749 | L750 | L751 | L752 | L753 | L754 | L755 | L756 |
| L844 | L845 | L846 | L847 | L848 | L849 | L850 | L851 | L852 | L853 | L854 | L855 | L856 |

Casting stage 6 - Longitudinal beams (LB):

7

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| L157 | L158 | L159 | L160 | L161 | L162 | L163 | L164 | L165 | L166 |
| L257 | L258 | L259 | L260 | L261 | L262 | L263 | L264 | L265 | L266 |
| L357 | L358 | L359 | L360 | L361 | L362 | L363 | L364 | L365 | L366 |
| L457 | L458 | L459 | L460 | L461 | L462 | L463 | L464 | L465 | L466 |
| L557 | L558 | L559 | L560 | L561 | L562 | L563 | L564 | L565 | L566 |
| L657 | L658 | L659 | L660 | L661 | L662 | L663 | L664 | L665 | L666 |
| L757 | L758 | L759 | L760 | L761 | L762 | L763 | L764 | L765 | L766 |
| L857 | L858 | L859 | L860 | L861 | L862 | L863 | L864 | L865 | L866 |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:41 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 7 - Longitudinal beams (LB):

8

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.167 | 1.168 | 1.169 | 1.170 | 1.171 | 1.172 | 1.173 | 1.174 | 1.175 | 1.176 |
| 1.267 | 1.268 | 1.269 | 1.270 | 1.271 | 1.272 | 1.273 | 1.274 | 1.275 | 1.276 |
| 1.367 | 1.368 | 1.369 | 1.370 | 1.371 | 1.372 | 1.373 | 1.374 | 1.375 | 1.376 |
| 1.467 | 1.468 | 1.469 | 1.470 | 1.471 | 1.472 | 1.473 | 1.474 | 1.475 | 1.476 |
| 1.567 | 1.568 | 1.569 | 1.570 | 1.571 | 1.572 | 1.573 | 1.574 | 1.575 | 1.576 |
| 1.667 | 1.668 | 1.669 | 1.670 | 1.671 | 1.672 | 1.673 | 1.674 | 1.675 | 1.676 |
| 1.767 | 1.768 | 1.769 | 1.770 | 1.771 | 1.772 | 1.773 | 1.774 | 1.775 | 1.776 |
| 1.867 | 1.868 | 1.869 | 1.870 | 1.871 | 1.872 | 1.873 | 1.874 | 1.875 | 1.876 |

Casting stage 8 - Longitudinal beams (LB):

9

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.177 | 1.178 | 1.179 | 1.180 | 1.181 | 1.182 | 1.183 | 1.184 |
| 1.277 | 1.278 | 1.279 | 1.280 | 1.281 | 1.282 | 1.283 | 1.284 |
| 1.377 | 1.378 | 1.379 | 1.380 | 1.381 | 1.382 | 1.383 | 1.384 |
| 1.477 | 1.478 | 1.479 | 1.480 | 1.481 | 1.482 | 1.483 | 1.484 |
| 1.577 | 1.578 | 1.579 | 1.580 | 1.581 | 1.582 | 1.583 | 1.584 |
| 1.677 | 1.678 | 1.679 | 1.680 | 1.681 | 1.682 | 1.683 | 1.684 |
| 1.777 | 1.778 | 1.779 | 1.780 | 1.781 | 1.782 | 1.783 | 1.784 |
| 1.877 | 1.878 | 1.879 | 1.880 | 1.881 | 1.882 | 1.883 | 1.884 |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:42 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.1 LB – Type 1

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.500 | 0.500 |
| A2 | 0.500 | 0.500 |
| A3 | 0.500 | -0.500 |
| A4 | -0.500 | -0.500 |
| A5 | 0.175 | 0 |
| - | m | m |

| Punkt | y | z |
|-------|--------|--------|
| A6 | -0.175 | 0 |
| A7 | 0.500 | 0.325 |
| A8 | -0.500 | 0.325 |
| A9 | 0.500 | -0.325 |
| A10 | -0.500 | -0.325 |
| - | | |

Analysis category: 3D

Definition

From library / calculator
 Rotation about centroid: 0
 Mirrored about axis: None

Enter properties
 Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid, ey origin: Same as e:

| Value |
|--------------|
| 0.66817 |
| 0.0745729 |
| 0.0373876 |
| -62.5131E-15 |
| 1,0E-6 |
| 0.544981 |
| 0.353281 |
| 0.0 |
| 0.0 |

Buttons: Visualise..., Tapering >>, Section details...

Name: LB - Typ 1 (5)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:43 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.2 LB – Type 2

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.428 | 0.500 |
| A2 | 0.572 | 0.500 |
| A3 | 0.572 | -0.500 |
| A4 | -0.428 | -0.500 |
| - | m | m |

| Punkt | y | z |
|-------|-------|--------|
| A5 | 0.572 | 0.325 |
| A6 | 0.572 | -0.325 |
| A7 | 0.247 | 0 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator
Rotation about centroid: 0
Mirrored about axis: None

Enter properties
Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid ey origin: Same as e:

| | |
|---|-------------|
| Cross sectional area (A) | 0,834085 |
| Second moment of area about y axis (Iyy) | 0,078953 |
| Second moment of area about z axis (Izz) | 0,0560347 |
| Product moment of area (Iyz) | 2,06602E-12 |
| Torsional constant (J) | 1,0E-6 |
| Effective shear area in y direction (Asy) | 0,691516 |
| Effective shear area in z direction (Asz) | 0,558568 |
| Eccentricity in y direction (ey) | 0,072 |
| Eccentricity in z direction (ez) | 0,0 |

Arbitrary Sections

6:LB - Typ 2

| Value |
|-------------|
| 0,834085 |
| 0,078953 |
| 0,0560347 |
| 2,06602E-12 |
| 1,0E-6 |
| 0,691516 |
| 0,558568 |
| 0,072 |
| 0,0 |

Name: LB - Typ 2 (6)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:44 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.3 LB – Type 3

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.572 | 0.500 |
| A2 | 0.428 | 0.500 |
| A3 | 0.428 | -0.500 |
| A4 | -0.572 | -0.500 |
| - | m | m |

| Punkt | y | z |
|-------|--------|--------|
| A5 | -0.572 | 0.325 |
| A6 | -0.572 | -0.325 |
| A7 | -0.247 | 0 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator
 Rotation about centroid: 0
 Mirrored about axis: None

Enter properties
 Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid ey origin: Same as e.

| | Value |
|---|---------------|
| Cross sectional area (A) | 0.834085 |
| Second moment of area about y axis (Iyy) | 0.0789532 |
| Second moment of area about z axis (Izz) | 0.056035 |
| Product moment of area (Iyz) | -0.551257E-12 |
| Torsional constant (J) | 1.0E-6 |
| Effective shear area in y direction (Asy) | 0.691558 |
| Effective shear area in z direction (Asz) | 0.55857 |
| Eccentricity in y direction (ey) | -0.072 |
| Eccentricity in z direction (ez) | 0.0 |

Section details...

Name: LB - Typ 3 (7)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:45 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.4 LB – Type 4

| Punkt | y | z |
|-------|--------|--------|
| S1 | -0.500 | 0.500 |
| S2 | 0.500 | 0.500 |
| S3 | 0.500 | -0.500 |
| S4 | -0.500 | -0.500 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator
 Rotation about centroid: 0
 Mirrored about axis: None

Enter properties
 Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid, ey origin: Same as e:

| | Value |
|---|-----------|
| Cross sectional area (A) | 1,0 |
| Second moment of area about y axis (Iyy) | 0,0833333 |
| Second moment of area about z axis (Izz) | 0,0833333 |
| Product moment of area (Iyz) | 0,0 |
| Torsional constant (J) | 1,0E-6 |
| Effective shear area in y direction (Asy) | 0,833423 |
| Effective shear area in z direction (Asz) | 0,833423 |
| Eccentricity in y direction (ey) | 0,0 |
| Eccentricity in z direction (ez) | 0,0 |

Buttons: Visualise..., Tapering >>, Section details...

Name: LB - Typ 4 (45)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:46 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.5 LB – Type 5

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.449 | 0.421 |
| A2 | 0.651 | 0.421 |
| A3 | -0.049 | -0.579 |
| A4 | -0.449 | -0.579 |
| A5 | 0.651 | 0.181 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator

Rotation about centroid: 0 °

Mirrored about axis: None

Enter properties

Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid, ey origin: Same as e:

| Property | Value |
|---|-----------|
| Cross sectional area (A) | 0,834 |
| Second moment of area about y axis (Iyy) | 0,0617844 |
| Second moment of area about z axis (Izz) | 0,0684942 |
| Product moment of area (Iyz) | 0,0234736 |
| Torsional constant (J) | 1,0E-6 |
| Effective shear area in y direction (Asy) | 0,658068 |
| Effective shear area in z direction (Asz) | 0,650074 |
| Eccentricity in y direction (ey) | 0,051 |
| Eccentricity in z direction (ez) | -0,079 |

Buttons: Visualise..., Tapering >>, Section details...

Name: LB - Typ 5 (9)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:47 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.6 LB – Type 6

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.526 | 0.402 |
| A2 | 0.574 | 0.402 |
| A3 | -0.126 | -0.598 |
| A4 | -0.526 | -0.598 |
| - | m | m |

| Punkt | y | z |
|-------|--------|--------|
| A5 | 0.574 | 0.162 |
| A6 | -0.526 | 0.227 |
| A7 | -0.526 | -0.423 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator

Rotation about centroid: 0

Mirrored about axis: None

Enter properties

Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid | ey origin: Same as e:

| | |
|---|-----------|
| Cross sectional area (A) | 0,668086 |
| Second moment of area about y axis (Iyy) | 0,0561226 |
| Second moment of area about z axis (Izz) | 0,0472308 |
| Product moment of area (Iyz) | 0,0184055 |
| Torsional constant (J) | 1,0E-6 |
| Effective shear area in y direction (Asy) | 0,50467 |
| Effective shear area in z direction (Asz) | 0,365593 |
| Eccentricity in y direction (ey) | -0,026 |
| Eccentricity in z direction (ez) | -0,098 |

Buttons: Visualise... | Tapering >> | Section details...

EU Sections

HE Shapes (EN53-62)

HE 1000 M

| Property | Value |
|---|-----------|
| Cross sectional area (A) | 0,668086 |
| Second moment of area about y axis (Iyy) | 0,0561226 |
| Second moment of area about z axis (Izz) | 0,0472308 |
| Product moment of area (Iyz) | 0,0184055 |
| Torsional constant (J) | 1,0E-6 |
| Effective shear area in y direction (Asy) | 0,50467 |
| Effective shear area in z direction (Asz) | 0,365593 |
| Eccentricity in y direction (ey) | -0,026 |
| Eccentricity in z direction (ez) | -0,098 |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:48 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.7 LB – Type 7

| Punkt | y | Z |
|-------|--------|--------|
| A1 | -0.449 | 0.421 |
| A2 | 0.651 | 0.421 |
| A3 | -0.049 | -0.579 |
| A4 | -0.449 | -0.579 |
| A5 | 0.651 | 0.181 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator
 Rotation about centroid: 0 °
 Mirrored about axis: None

Enter properties
 Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid, ey origin: Same as e.

| | Value |
|---|------------|
| Cross sectional area (A) | 0.834 |
| Second moment of area about y axis (Iyy) | 0.0617844 |
| Second moment of area about z axis (Izz) | 0.0684942 |
| Product moment of area (Iyz) | -0.0234736 |
| Torsional constant (J) | 1.0E-6 |
| Effective shear area in y direction (Asy) | 0.658068 |
| Effective shear area in z direction (Asz) | 0.650074 |
| Eccentricity in y direction (ey) | -0.051 |
| Eccentricity in z direction (ez) | -0.079 |

Name: LB - Typ 7 (11)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:49 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.1.8 LB – Type 8

| Punkt | y | z |
|-------|--------|--------|
| A1 | -0.526 | 0.402 |
| A2 | 0.574 | 0.402 |
| A3 | -0.126 | -0.598 |
| A4 | -0.526 | -0.598 |
| - | m | m |

| Punkt | y | z |
|-------|--------|--------|
| A5 | 0.574 | 0.162 |
| A6 | -0.526 | 0.227 |
| A7 | -0.526 | -0.423 |
| - | m | m |

Analysis category: 3D

Definition

From library / calculator
 Rotate about centroid: 0
 Mirrored about axis: None

Enter properties
 Usage: 3D Thick Beam (Any beam)

Reinforcement (only used for RC design checks): None

ez origin: Centroid | ey origin: Same as e:

| | Value |
|---|------------|
| Cross sectional area (A) | 0.668086 |
| Second moment of area about y axis (Iyy) | 0.0561226 |
| Second moment of area about z axis (Izz) | 0.0472308 |
| Product moment of area (Iyz) | -0.0184055 |
| Torsional constant (J) | 1.0E-6 |
| Effective shear area in y direction (Asy) | 0.504675 |
| Effective shear area in z direction (Asz) | 0.365593 |
| Eccentricity in y direction (ey) | 0.026 |
| Eccentricity in z direction (ez) | -0.098 |

Diagram showing a cross-section of a hollow deck with points A1 through A7. Dimensions include a total width of 600, a depth of 500, and a hole diameter of 26. A vertical offset of 98 is also shown.

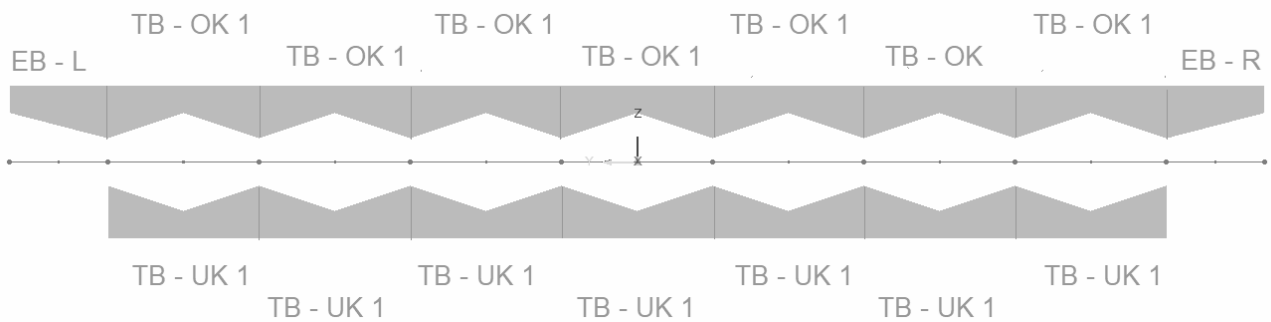
Buttons: Visualise... | Tapering >> | Section details...

Name: LB - Typ 8 (12)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:50 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

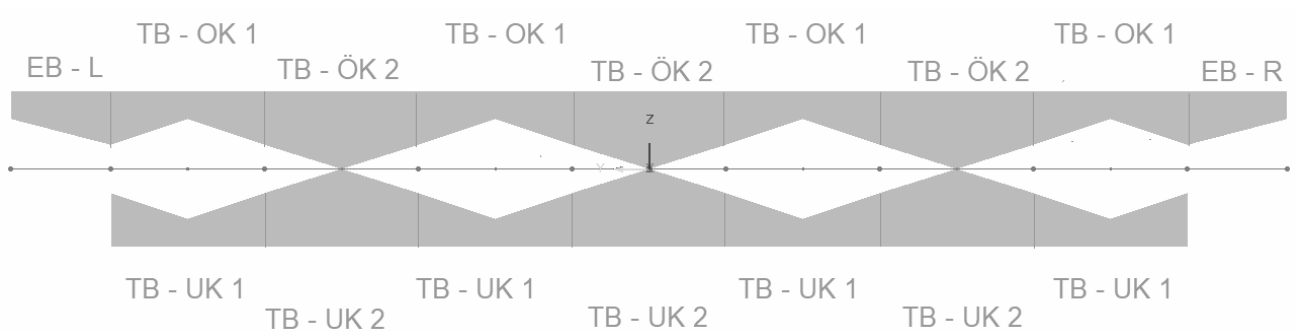
2.3.2 Transversal beams (TB)

There are a total of 8 different types according to the reporting below.



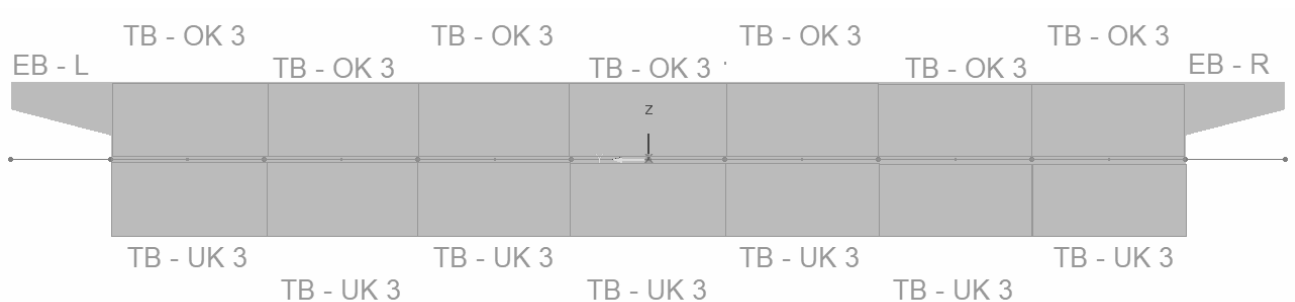
TYPE SECTION 1

Cross section with 8 void tubes.



TYPE SECTION 2

Cross section with 4 void tubes.

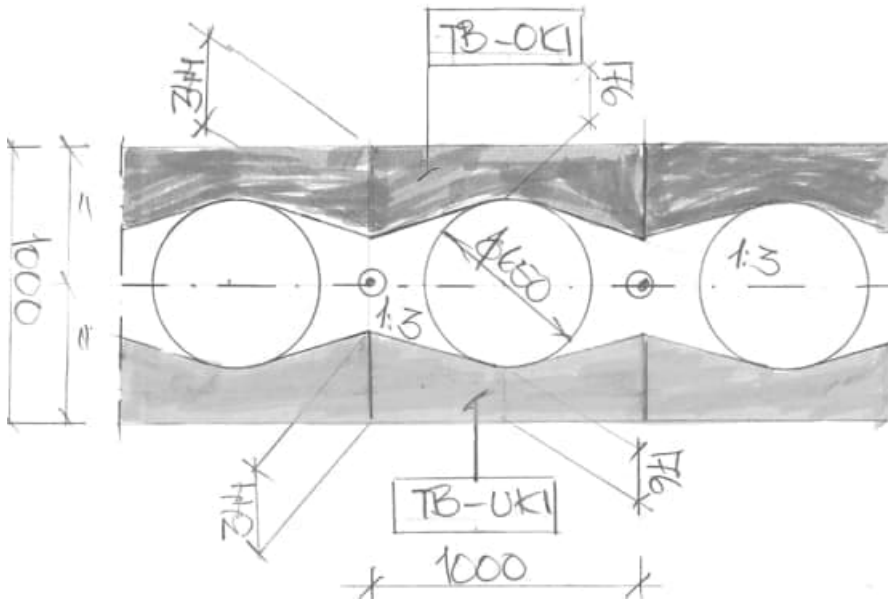


TYPE SECTION 3

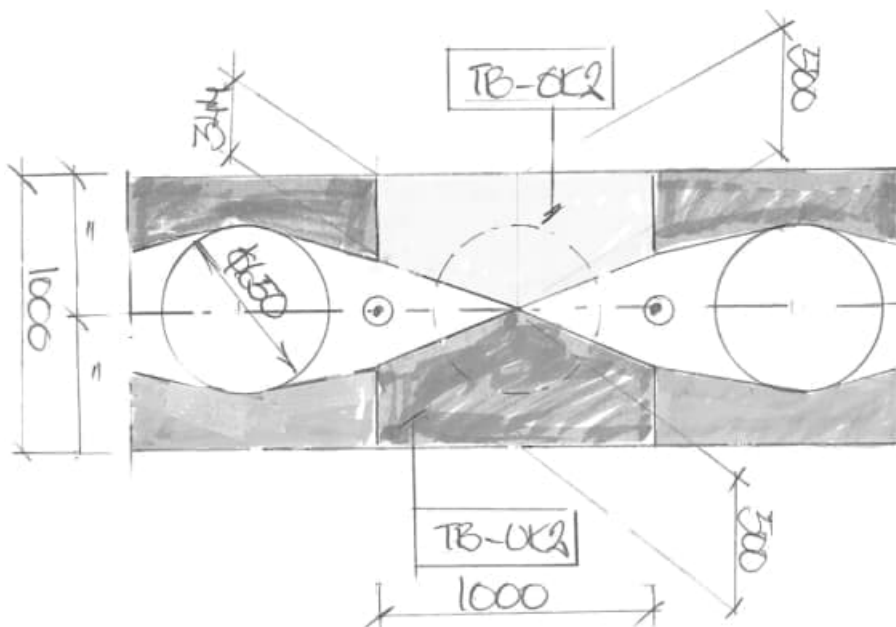
Massive cross section.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:51 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.1 Thickness transversal beams

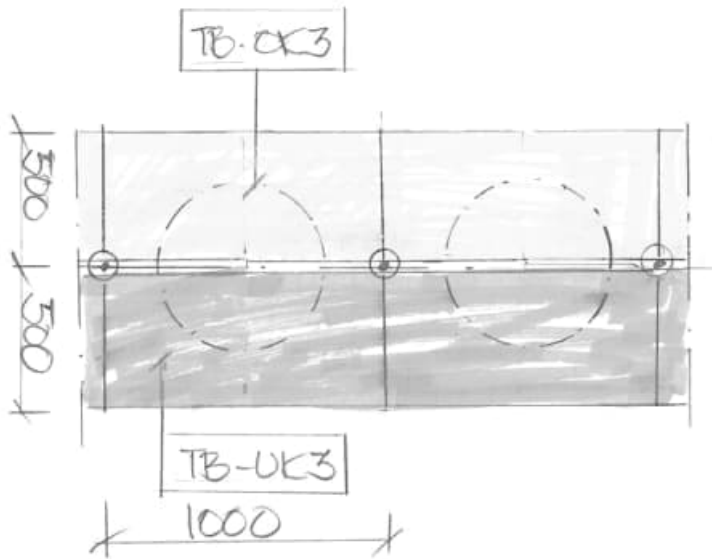


TB - OK 1 & TB - UK 1

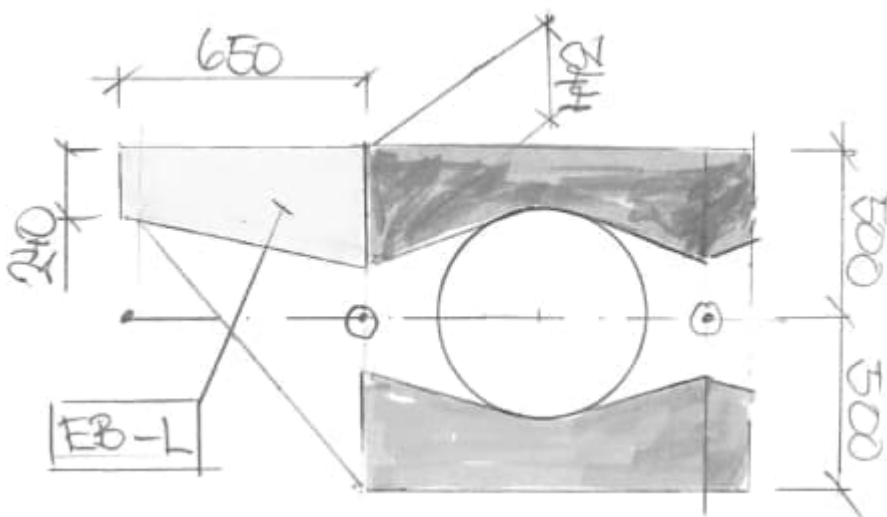


TB - OK 2 & TB - UK 2

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:52 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



TB - OK 3 & TB - UK 3



EB - L

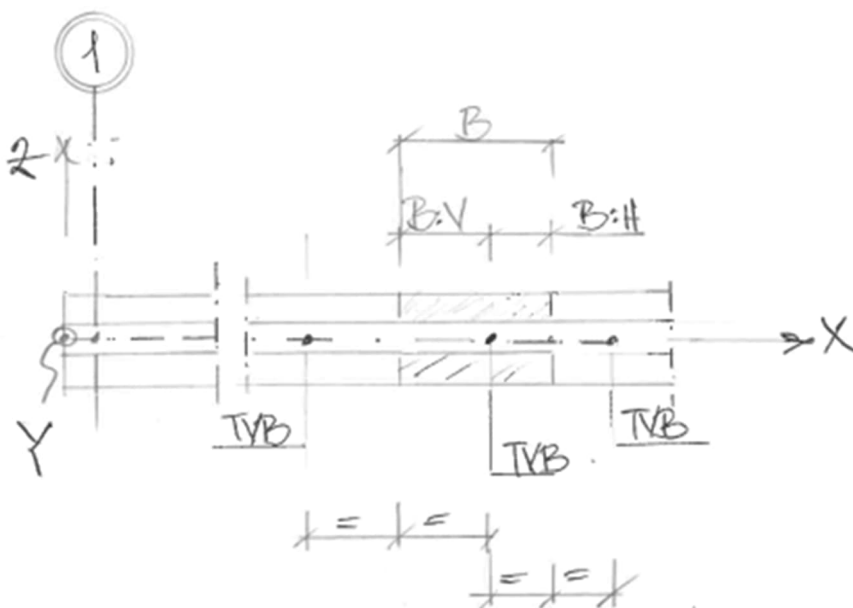
Mått gäller även EB - R

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:53 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.2 Width transversal beams

The fictitious transverse beams have different widths depending on the distance at which they are located from each other.

A review of how the total width (denoted "B:TOT") is distributed for each transverse beam. A simplified width is then chosen (denoted "Selected B"). In total, 5 different simplified widths are applied for the fictitious transverse beams (B = 1.0 m; B = 1.50 m; B = 2.0 m; B = 2.5 m; B = 3.0 m).



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:54 |
| | | Date : | Created : |

Casting stage 1:

| X | B:V | B:H | B:TOT | TVB | Remark |
|-------|-------|-------|-------|-----|---------------|
| 0 | x | x | x | No | Bridge end |
| 0,50 | 0,500 | 0,625 | 1,13 | Yes | Support 1 |
| 1,75 | 0,625 | 1,435 | 2,06 | Yes | - |
| 4,62 | 1,435 | 1,285 | 2,72 | Yes | - |
| 7,19 | 1,285 | 1,285 | 2,57 | Yes | - |
| 9,76 | 1,285 | 1,285 | 2,57 | Yes | - |
| 12,33 | 1,285 | 1,285 | 2,57 | Yes | - |
| 14,90 | 1,285 | 1,300 | 2,59 | Yes | - |
| 17,50 | 1,300 | 1,200 | 2,50 | Yes | - |
| 19,90 | 1,200 | 1,250 | 2,45 | Yes | Support 2 |
| 22,40 | 1,250 | 1,250 | 2,50 | Yes | - |
| 24,90 | 1,250 | 0,500 | 1,75 | Yes | Casting joint |
| m | m | m | m | | - |

→

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 1,0 | 3 |
| 2,0 | 3 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 2 |
| 2,5 | 3 |
| 2,5 | 3 |
| 2,0 | 3 |
| m | - |

Casting stage 2:

| X | B:V | B:H | B:TOT | TVB | Remark |
|-------|-------|-------|-------|-----|---------------|
| 24,90 | x | x | x | No | Casting joint |
| 25,90 | 0,500 | 1,300 | 1,80 | Yes | Support 2 |
| 28,50 | 1,300 | 1,300 | 2,60 | Yes | - |
| 31,10 | 1,300 | 1,300 | 2,60 | Yes | - |
| 33,70 | 1,300 | 1,300 | 2,60 | Yes | - |
| 36,30 | 1,300 | 1,300 | 2,60 | Yes | - |
| 38,90 | 1,300 | 1,450 | 2,75 | Yes | - |
| 41,80 | 1,450 | 1,550 | 3,00 | Yes | - |
| 44,90 | 1,550 | 1,225 | 2,78 | Yes | Support 3 |
| 47,35 | 1,225 | 1,225 | 2,45 | Yes | - |
| 49,80 | 1,225 | 0,500 | 1,73 | Yes | Casting joint |
| m | m | m | m | - | - |

→

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 3,0 | 2 |
| 3,0 | 3 |
| 2,5 | 3 |
| 1,5 | 3 |
| m | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:55 |
| | | Date : | Created : |

Casting stage 3:

| X | B:V | B:H | B:TOT | TVB | Remark |
|-------|-------|-------|-------|-----|---------------|
| 49,80 | x | x | x | No | Casting joint |
| 50,80 | 0,500 | 1,450 | 1,95 | Yes | - |
| 53,70 | 1,450 | 1,450 | 2,90 | Yes | - |
| 56,60 | 1,450 | 1,450 | 2,90 | Yes | - |
| 59,50 | 1,450 | 1,450 | 2,90 | Yes | - |
| 62,40 | 1,450 | 1,400 | 2,85 | Yes | - |
| 65,20 | 1,400 | 1,450 | 2,85 | Yes | - |
| 68,10 | 1,450 | 1,550 | 3,00 | Yes | Support 4 |
| 71,20 | 1,550 | 1,550 | 3,10 | Yes | - |
| 74,30 | 1,550 | 0,400 | 1,95 | Yes | Casting joint |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 2 |
| 3,0 | 3 |
| 3,0 | 3 |
| 2,0 | 3 |
| m | - |

→

Casting stage 4:

| X | B:V | B:H | B:TOT | TVB | Remark |
|--------|-------|-------|-------|-----|---------------|
| 74,30 | x | x | x | No | Casting joint |
| 75,30 | 0,500 | 1,385 | 1,89 | Yes | - |
| 78,07 | 1,385 | 1,380 | 2,77 | Yes | - |
| 80,83 | 1,380 | 1,385 | 2,77 | Yes | - |
| 83,60 | 1,385 | 1,385 | 2,77 | Yes | - |
| 86,37 | 1,385 | 1,380 | 2,77 | Yes | - |
| 89,13 | 1,380 | 1,385 | 2,77 | Yes | - |
| 91,90 | 1,385 | 0,825 | 2,21 | Yes | - |
| 93,55 | 0,825 | 0,825 | 1,65 | Yes | - |
| 95,20 | 0,825 | 0,975 | 1,80 | Yes | - |
| 97,15 | 0,975 | 0,975 | 1,95 | Yes | - |
| 99,10 | 0,975 | 1,085 | 2,06 | Yes | Support 5 |
| 101,27 | 1,085 | 1,080 | 2,17 | Yes | - |
| 103,43 | 1,080 | 1,085 | 2,17 | Yes | - |
| 105,60 | 1,085 | 0,500 | 1,58 | Yes | Casting stage |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 2,0 | 1 |
| 1,5 | 2 |
| 2,0 | 2 |
| 2,0 | 3 |
| 2,0 | 3 |
| 2,0 | 3 |
| 1,5 | 3 |
| m | - |

→

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:56 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 5:

| X | B:V | B:H | B:TOT | TVB | Remark |
|--------|-------|-------|-------|-----|---------------|
| 105,60 | x | x | x | No | Casting stage |
| 106,60 | 0,500 | 1,360 | 1,86 | Yes | - |
| 109,32 | 1,360 | 1,355 | 2,72 | Yes | - |
| 112,03 | 1,355 | 1,360 | 2,72 | Yes | - |
| 114,75 | 1,360 | 1,360 | 2,72 | Yes | - |
| 117,47 | 1,360 | 1,355 | 2,72 | Yes | - |
| 120,18 | 1,355 | 1,360 | 2,72 | Yes | - |
| 122,90 | 1,360 | 0,825 | 2,19 | Yes | - |
| 124,55 | 0,825 | 0,825 | 1,65 | Yes | - |
| 126,20 | 0,825 | 0,975 | 1,80 | Yes | - |
| 128,15 | 0,975 | 0,975 | 1,95 | Yes | - |
| 130,10 | 0,975 | 1,250 | 2,22 | Yes | Support 6 |
| 132,60 | 1,250 | 1,250 | 2,50 | Yes | - |
| 135,10 | 1,250 | 0,500 | 1,75 | Yes | Casting stage |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 3,0 | 1 |
| 2,0 | 1 |
| 1,5 | 2 |
| 2,0 | 2 |
| 2,0 | 3 |
| 2,0 | 3 |
| 2,5 | 3 |
| 1,5 | 3 |
| m | - |

Casting stage 6:

| X | B:V | B:H | B:TOT | TVB | Remark |
|--------|-------|-------|-------|-----|---------------|
| 135,10 | x | x | x | No | Casting stage |
| 136,10 | 0,500 | 1,300 | 1,80 | Yes | - |
| 138,70 | 1,300 | 1,300 | 2,60 | Yes | - |
| 141,30 | 1,300 | 1,300 | 2,60 | Yes | - |
| 143,90 | 1,300 | 1,300 | 2,60 | Yes | - |
| 146,50 | 1,300 | 1,300 | 2,60 | Yes | - |
| 149,10 | 1,300 | 1,450 | 2,75 | Yes | - |
| 152,00 | 1,450 | 1,550 | 3,00 | Yes | - |
| 155,10 | 1,550 | 1,250 | 2,80 | Yes | Support 7 |
| 157,60 | 1,250 | 1,250 | 2,50 | Yes | - |
| 160,10 | 1,250 | 0,500 | 1,75 | Yes | Casting stage |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 3,0 | 1 |
| 3,0 | 2 |
| 3,0 | 3 |
| 2,5 | 3 |
| 1,5 | 3 |
| m | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:57 |
| | | Date : | Created : |

Casting stage 7:

| X | B:V | B:H | B:TOT | TVB | Remark |
|--------|-------|-------|-------|-----|---------------|
| 160,10 | x | x | x | No | Casting stage |
| 161,10 | 0,500 | 1,300 | 1,80 | Yes | - |
| 163,70 | 1,300 | 1,300 | 2,60 | Yes | - |
| 166,30 | 1,300 | 1,300 | 2,60 | Yes | - |
| 168,90 | 1,300 | 1,300 | 2,60 | Yes | - |
| 171,50 | 1,300 | 1,300 | 2,60 | Yes | - |
| 174,10 | 1,300 | 1,450 | 2,75 | Yes | - |
| 177,00 | 1,450 | 1,550 | 3,00 | Yes | - |
| 180,10 | 1,550 | 0,975 | 2,53 | Yes | Support 8 |
| 182,05 | 0,975 | 0,975 | 1,95 | Yes | - |
| 184,00 | 0,975 | 0,550 | 1,52 | Yes | Casting stage |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 3,0 | 1 |
| 3,0 | 2 |
| 2,5 | 3 |
| 2,0 | 3 |
| 1,5 | 3 |
| m | - |

→

Casting stage 8:

| X | B:V | B:H | B:TOT | TVB | Remark |
|--------|-------|-------|-------|-----|---------------|
| 184,00 | x | x | x | No | Casting stage |
| 185,10 | 0,550 | 1,300 | 1,85 | Yes | - |
| 187,70 | 1,300 | 1,300 | 2,60 | Yes | - |
| 190,30 | 1,300 | 1,300 | 2,60 | Yes | - |
| 192,90 | 1,300 | 1,300 | 2,60 | Yes | - |
| 195,50 | 1,300 | 1,450 | 2,75 | Yes | - |
| 198,40 | 1,450 | 0,550 | 2,00 | Yes | - |
| 199,50 | 0,550 | 0,500 | 1,05 | Yes | Support 9 |
| 200,00 | x | x | x | No | Broände |
| m | m | m | m | - | - |

| Chosen B | Section type |
|----------|--------------|
| x | x |
| 2,0 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,5 | 1 |
| 2,0 | 1 |
| 1,0 | 3 |
| x | x |
| m | - |

→

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:58 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.3 Defintion transversal beams

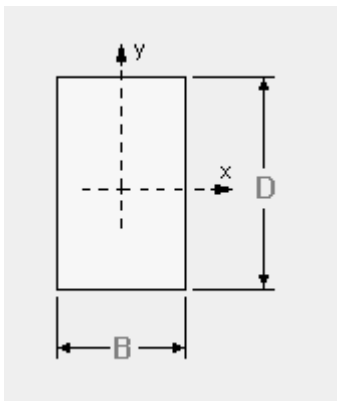
The occurring fictitious beams are both of even thickness and tapered.

The tapered beams are designated as "Multiple Varying Section".

These are either tapered with two break points (designated "2 sections") or three break points (designated "sections").

Determination of cross-sectional constants is carried out by the "Section property calculator". In this case, only solid rectangular cross-sections occur (designated "RSS" or "Rectangular Solid Section").

The rectangular cross-sections are defined by thickness (designated "D") and width (designated "B").



| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:59 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.1 TB – OK1

This transversal beam is designated 'Multiple varying: 3 sections' with geometry as below.

TB – OK 1_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| 2 | 0.176 | 1.500 | RSS D = 0.176 B = 1.5 |
| 3 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path

| | Section | Shape Interpolation | Distance | Edit... |
|---|----------------------------------|---------------------|----------|---------|
| 1 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Start | 0,0 | Insert |
| 2 | 1,50 x 0,176 (RSS D=0,176 B=1,5) | Linear | 0,5 | Delete |
| 3 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Linear | 1,0 | Flip |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:
Align all sections to section:
Interpolation of properties:

Name: (2)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:60 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 1_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| 2 | 0.176 | 2.000 | RSS D = 0.176 B = 2.0 |
| 3 | 0.344 | 2.000 | RSS D = 0.500 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ×

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 2.00 X 0.344 (RSS D=0.344 B=2) | Start | 0.0 |
| 2 | 2.00 x 0.176 (RSS D=0.176 B=2) | Linear | 0.5 |
| 3 | 2.00 X 0.344 (RSS D=0.344 B=2) | Linear | 1.0 |

Buttons: Edit..., Insert, Delete, Flip

Alignment:
Vertical: Top to top (ey origin: Same as ez)
Horizontal: Centre to centre (ez origin: Centroid)
Align all sections to section: 2
Interpolation of properties: Use Section Calculator

Section 1-1 Section 2-2 Section 3-3

Name: TB - OK 1_2000 (3)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:61 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 1_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| 2 | 0.176 | 2.500 | RSS D = 0.176 B = 2.5 |
| 3 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section



Analysis category

Specify shape interpolation
 Symmetric section

Distance interpretation

Scaled to fit each line individually
 Along reference path

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 2.50 X 0.344 (RSS D=0.344 B=2.5) | Start | 0.0 |
| 2 | 2.50 x 0.176 (RSS D=0.176 B=2.5) | Linear | 0.5 |
| 3 | 2.50 X 0.344 (RSS D=0.344 B=2.5) | Linear | 1.0 |

Alignment

Vertical ey origin Align all sections to section

Horizontal ez origin Interpolation of properties

Section 1-1
Section 2-2
Section 3-3

Name (4)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:62 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB - OK 1_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| 2 | 0.176 | 3.000 | RSS D = 0.176 B = 3.0 |
| 3 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 3,00 X 0,344 (RSS D=0,344 B=3) | Start | 0,0 |
| 2 | 3,00 x 0,176 (RSS D=0,176 B=3) | Linear | 0,5 |
| 3 | 3,00 X 0,344 (RSS D=0,344 B=3) | Linear | 1,0 |

Edit...

Insert

Delete

Flip

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

1 2 100% 3

1 2 3

Section 1-1 Section 2-2 Section 3-3

Name (5)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:63 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.2 TB – OK2

This transversal beam is designated 'Multiple varying: 3 sections' with geometry as below.

TB – OK 2_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| 2 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| 3 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | |
|---|----------------------------------|---------------------|----------|---------|
| 1 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Start | 0,0 | Edit... |
| 2 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Linear | 0,5 | Insert |
| 3 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Linear | 1,0 | Delete |

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Section 1-1
Section 2-2
Section 3-3

Name: (19)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:64 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 2_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| 2 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| 3 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 2.00 X 0.344 (RSS D=0.344 B=2) | Start | 0.0 |
| 2 | 2.00 x 0.50 (RSS D=0.5 B=2) | Linear | 0.5 |
| 3 | 2.00 X 0.344 (RSS D=0.344 B=2) | Linear | 1.0 |

Edit...
 Insert
 Delete
 Flip

Alignment:
 Vertical: Top to top (ey origin: Same as ez)
 Horizontal: Centre to centre (ez origin: Centroid)

Align all sections to section: 2
 Interpolation of properties: Use Section Calculator

1 2 3 100%

Section 1-1 Section 2-2 Section 3-3

Name: TB - OK 2_2000 (20)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:65 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB - OK 2_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| 2 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| 3 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ×

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 2,50 X 0,344 (RSS D=0,344 B=2,5) | Start | 0,0 |
| 2 | 2,50 x 0,50 (RSS D=0,5 B=2,5) | Linear | 0,5 |
| 3 | 2,00 X 0,344 (RSS D=0,344 B=2) | Linear | 1,0 |

Buttons: Edit... Insert Delete Flip

Alignment:
Vertical: Top to top ey origin: Same as ez Align all sections to section: 2
Horizontal: Centre to centre ez origin: Centroid Interpolation of properties: Use Section Calculator

Section 1-1 Section 2-2 Section 3-3

Name: TB - OK 2_2500 (21)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:66 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB - OK 2_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| 2 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| 3 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 3,00 X 0,344 (RSS D=0,344 B=3) | Start | 0,0 |
| 2 | 3,00 x 0,50 (RSS D=0,5 B=3) | Linear | 0,5 |
| 3 | 1,00 x 0,344 (RSS D=0,344 B=1) | Linear | 1,0 |

Buttons: Edit... Insert Delete Flip

Alignment:
Vertical: Top to top ey origin: Same as ez Align all sections to section: 2
Horizontal: Centre to centre ez origin: Centroid Interpolation of properties: Use Section Calculator

Section 1-1 Section 2-2 Section 3-3

Name: TB - OK 2_3000 (22)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:67 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.3 TB – OK3

This transversal beam is designated 'Multiple varying: 2 sections' with geometry as below.

TB – OK 3_1000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 1.000 | RSS D = 0.500 B = 1.0 |
| 2 | 0.500 | 1.000 | RSS D = 0.500 B = 1.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 1,00 x 0,50 (RSS D=0,5 B=1) | Start | 0,0 |
| 2 | 1,00 x 0,50 (RSS D=0,5 B=1) | Linear | 1,0 |

Buttons: Edit... Insert Delete Flip

Alignment:
Vertical: Top to top ey origin: Same as ez
Horizontal: Centre to centre ez origin: Centroid
Align all sections to section: 2
Interpolation of properties: Use Section Calculator

Name: TB - OK 3_1000 (23)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:68 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 3_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| 2 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | |
|---|-------------------------------|---------------------|----------|---------|
| 1 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Start | 0,0 | Edit... |
| 2 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Linear | 1,0 | Insert |
| | | | | Delete |
| | | | | Flip |

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Name (24)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:69 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 3_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| 2 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section ×

Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path:

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 2.00 x 0.50 (RSS D=0.5 B=2) | Start | 0.0 |
| 2 | 2.00 x 0.50 (RSS D=0.5 B=2) | Linear | 1.0 |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:

Align all sections to section:
Interpolation of properties:

1 100% 2

Section 1-1 Section 2-2

Name: (25)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:70 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB - OK 3_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| 2 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section
✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | Edit... |
|---|-------------------------------|---------------------|----------|---------|
| 1 | 2.50 x 0.50 (RSS D=0.5 B=2.5) | Start | 0.0 | Insert |
| 2 | 2.50 x 0.50 (RSS D=0.5 B=2.5) | Linear | 1.0 | Delete |

Flip

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Section 1-1
Section 2-2

Name (26)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:71 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – OK 3_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| 2 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.250 m

Multiple Varying Section
✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 3,00 x 0,50 (RSS D=0,5 B=3) | Start | 0,0 |
| 2 | 3,00 x 0,50 (RSS D=0,5 B=3) | Linear | 1,0 |

Edit...

Insert

Delete

Flip

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Name (27)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:72 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.4 TB – UK1

This transversal beam is designated 'Multiple varying: 3 sections' with geometry as below.

TB – UK 1_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| 2 | 0.176 | 1.500 | RSS D = 0.176 B = 1.5 |
| 3 | 0.344 | 1.500 | RSS D = 0.500 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.412 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Start | 0,0 |
| 2 | 1,50 x 0,176 (RSS D=0,176 B=1,5) | Linear | 0,5 |
| 3 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Linear | 1,0 |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:
Align all sections to section:
Interpolation of properties:

Name: (29)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:73 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 1_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| 2 | 0.176 | 2.000 | RSS D = 0.176 B = 2.0 |
| 3 | 0.344 | 2.000 | RSS D = 0.500 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.412 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 2.00 X 0.344 (RSS D=0.344 B=2) | Start | 0.0 |
| 2 | 2.00 x 0.176 (RSS D=0.176 B=2) | Linear | 0.5 |
| 3 | 2.00 X 0.344 (RSS D=0.344 B=2) | Linear | 1.0 |

Alignment:
Vertical: Bottom to bottom, ey origin: Same as ez
Horizontal: Centre to centre, ez origin: Centroid
Align all sections to section: 2
Interpolation of properties: Use Section Calculator

Section 1-1 Section 2-2 Section 3-3

Name: TB - UK 1_2000 (30)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:74 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 1_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| 2 | 0.176 | 2.500 | RSS D = 0.176 B = 2.5 |
| 3 | 0.344 | 2.500 | RSS D = 0.500 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.412 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 2,50 X 0,344 (RSS D=0,344 B=2,5) | Start | 0,0 |
| 2 | 2,50 x 0,176 (RSS D=0,176 B=2,5) | Linear | 0,5 |
| 3 | 2,50 X 0,344 (RSS D=0,344 B=2,5) | Linear | 1,0 |

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Section 1-1
Section 2-2
Section 3-3

Name:

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:75 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 1_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| 2 | 0.176 | 3.000 | RSS D = 0.176 B = 3.0 |
| 3 | 0.344 | 3.000 | RSS D = 0.500 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.412 m

Multiple Varying Section



Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | |
|---|--------------------------------|---------------------|----------|---------|
| 1 | 3,00 X 0,344 (RSS D=0,344 B=3) | Start | 0,0 | Edit... |
| 2 | 3,00 x 0,176 (RSS D=0,176 B=3) | Linear | 0,5 | Insert |
| 3 | 3,00 X 0,344 (RSS D=0,344 B=3) | Linear | 1,0 | Delete |

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Section 1-1

Section 2-2

Section 3-3

Name (32)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:76 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.5 TB – UK2

This transversal beam is designated 'Multiple varying: 3 sections' with geometry as below.

TB – UK 2_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| 2 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| 3 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.250 m

Multiple Varying Section ✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | |
|---|----------------------------------|---------------------|----------|---------|
| 1 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Start | 0,0 | Edit... |
| 2 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Linear | 0,5 | Insert |
| 3 | 1,50 X 0,344 (RSS D=0,344 B=1,5) | Linear | 1,0 | Delete |

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Section 1-1
Section 2-2
Section 3-3

Name (34)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:77 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 2_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| 2 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| 3 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.250 m

Multiple Varying Section



Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path:

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 2.00 X 0.344 (RSS D=0.344 B=2) | Start | 0.0 |
| 2 | 2.00 x 0.50 (RSS D=0.5 B=2) | Linear | 0.5 |
| 3 | 2.00 X 0.344 (RSS D=0.344 B=2) | Linear | 1.0 |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:

Align all sections to section:
Interpolation of properties:

Name: (35)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:78 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 2_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| 2 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| 3 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.250 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 2,50 X 0,344 (RSS D=0,344 B=2,5) | Start | 0,0 |
| 2 | 2,50 x 0,50 (RSS D=0,5 B=2,5) | Linear | 0,5 |
| 3 | 2,50 X 0,344 (RSS D=0,344 B=2,5) | Linear | 1,0 |

Buttons: Edit... Insert Delete Flip

Alignment:
Vertical: Bottom to bottom (ey origin: Same as ez)
Horizontal: Centre to centre (ez origin: Centroid)
Align all sections to section: 2
Interpolation of properties: Use Section Calculator

Name: TB - UK 2_2500 (24)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:79 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 2_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| 2 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| 3 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.250 m

Multiple Varying Section ✕

Analysis category: 3D

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 3,00 X 0,344 (RSS D=0,344 B=3) | Start | 0,0 |
| 2 | 3,00 x 0,50 (RSS D=0,5 B=3) | Linear | 0,5 |
| 3 | 3,00 X 0,344 (RSS D=0,344 B=3) | Linear | 1,0 |

Alignment:
Vertical: Bottom to bottom | ey origin: Same as ez
Horizontal: Centre to centre | ez origin: Centroid

Align all sections to section: 2
Interpolation of properties: Use Section Calculator

Section 1-1 Section 2-2 Section 3-3

Name: TB - UK 2_3000 (37)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:80 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.6 TB – UK3

This transversal beam is designated 'Multiple varying: 2 sections' with geometry as below.

TB – UK 3_1000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 1.000 | RSS D = 0.500 B = 1.0 |
| 2 | 0.500 | 1.000 | RSS D = 0.500 B = 1.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.25 m

Multiple Varying Section
✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path Centerline

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 1,00 x 0,50 (RSS D=0,5 B=1) | Start | 0,0 |
| 2 | 1,00 x 0,50 (RSS D=0,5 B=1) | Linear | 1,0 |

Alignment

Vertical Individual eccentricitie ey origin Same as ez

Horizontal Centre to centre ez origin Centroid

Align all sections to section 2

Interpolation of properties Use Section Calculato

The diagram shows a horizontal beam with two sections, labeled 1 and 2. Section 1 is on the left and Section 2 is on the right. Below the beam, two cross-sections are shown: Section 1-1 on the left and Section 2-2 on the right. The beam is labeled with '1' at the left end and '2' at the right end. A '100%' scale indicator is present at the top right of the beam diagram.

Name TB - UK 3_1000 (38)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:81 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 3_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| 2 | 0.500 | 1.500 | RSS D = 0.500 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.25 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path

| | Section | Shape Interpolation | Distance |
|---|-------------------------------|---------------------|----------|
| 1 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Start | 0,0 |
| 2 | 1,50 x 0,50 (RSS D=0,5 B=1,5) | Linear | 1,0 |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:

Align all sections to section:
Interpolation of properties:

1 100% 2

1 2

Section 1-1 Section 2-2

Name: (39)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:82 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 3_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| 2 | 0.500 | 2.000 | RSS D = 0.500 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.25 m

Multiple Varying Section



Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 2,00 x 0,50 (RSS D=0,5 B=2) | Start | 0,0 |
| 2 | 2,00 x 0,50 (RSS D=0,5 B=2) | Linear | 1,0 |

Edit...

Insert

Delete

Flip

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Section 1-1 Section 2-2

Name (40)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:83 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 3_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| 2 | 0.500 | 2.500 | RSS D = 0.500 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): +0.25 m

Multiple Varying Section
✕

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|-------------------------------|---------------------|----------|
| 1 | 2.50 x 0.50 (RSS D=0.5 B=2.5) | Start | 0.0 |
| 2 | 2.50 x 0.50 (RSS D=0.5 B=2.5) | Linear | 1.0 |

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Name (41)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:84 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

TB – UK 3_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| 2 | 0.500 | 3.000 | RSS D = 0.500 B = 3.0 |
| - | m | m | - |

Multiple Varying Section



Analysis category: 3D

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path: Centerline

| | Section | Shape Interpolation | Distance |
|---|-----------------------------|---------------------|----------|
| 1 | 3,00 x 0,50 (RSS D=0,5 B=3) | Start | 0,0 |
| 2 | 3,00 x 0,50 (RSS D=0,5 B=3) | Linear | 1,0 |

Buttons: Edit..., Insert, Delete, Flip

Alignment

Vertical: Individual eccentricity, ey origin: Same as ez

Horizontal: Centre to centre, ez origin: Centroid

Align all sections to section: 2

Interpolation of properties: Use Section Calculator

Name: TB - UK 3_3000 (42)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:85 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.7 EB – L

This transversal beam is designated 'Multiple varying: 2 sections' with geometry as below.

EB – L_1000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.000 | RSS D = 0.344 B = 1.0 |
| 2 | 0.176 | 1.000 | RSS D = 0.176 B = 1.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path:

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 1,00 x 0,344 (RSS D=0,344 B=1) | Start | 0,0 |
| 2 | 1,00 x 0,176 (RSS D=0,176 B=1) | Linear | 0,65 |

Alignment:
Vertical: ey origin:
Horizontal: ez origin:

Align all sections to section:
Interpolation of properties:

Name: (new)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:86 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - L_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| 2 | 0.176 | 1.500 | RSS D = 0.176 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section

Analysis category

Distance interpretation
 Scaled to fit each line individually
 Along reference path Centerline

Specify shape interpolation
 Symmetric section

| | Section | Shape Interpolation | Distance | Edit... |
|---|----------------------------------|--|----------|---------|
| 1 | 1.50 X 0.344 (RSS D=0.344 B=1.5) | Start | 0.0 | Insert |
| 2 | 1.50 x 0.176 (RSS D=0.176 B=1.5) | <input checked="" type="checkbox"/> Linear | 0.65 | Delete |

Alignment

Vertical Top to top ey origin Same as ez Align all sections to section 2

Horizontal Centre to centre ez origin Centroid Interpolation of properties Use Section Calculato

Name EB - L_1500 (new)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:87 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - L_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| 2 | 0.176 | 2.000 | RSS D = 0.176 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ×

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | Edit... |
|---|--------------------------------|---------------------|----------|---------|
| 1 | 2.00 x 0.344 (RSS D=0.344 B=2) | Start | 0.0 | Insert |
| 2 | 2.00 x 0.176 (RSS D=0.176 B=2) | Linear | 0.65 | Delete |

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Name (43)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:88 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - L_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| 2 | 0.176 | 2.500 | RSS D = 0.176 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ✕

Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path:

| | Section | Shape Interpolation | Distance | Edit... |
|---|----------------------------------|---------------------|----------|---------|
| 1 | 2.50 X 0,344 (RSS D=0,344 B=2.5) | Start | 0,0 | Insert |
| 2 | 2.50 x 0,176 (RSS D=0,176 B=2.5) | Linear | 0,65 | Delete |

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Name: (44)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:89 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - L_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| 2 | 0.176 | 3.000 | RSS D = 0.176 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ×

Analysis category

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | Edit... |
|---|--------------------------------|---------------------|----------|---------|
| 1 | 3.00 X 0.344 (RSS D=0.344 B=3) | Start | 0.0 | Insert |
| 2 | 3.00 x 0.176 (RSS D=0.176 B=3) | Linear | 0.65 | Delete |

Flip

Alignment

Vertical ey origin

Horizontal ez origin

Align all sections to section

Interpolation of properties

Name (45)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:90 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.2.8 EB – R

This transversal beam is designated 'Multiple varying: 2 sections' with geometry as below.

EB – L_1000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.176 | 1.000 | RSS D = 0.176 B = 1.0 |
| 2 | 0.344 | 1.000 | RSS D = 0.344 B = 1.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section
✕

Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 1,00 x 0,176 (RSS D=0,176 B=1) | Start | 0,0 |
| 2 | 1,00 x 0,344 (RSS D=0,344 B=1) | Linear | 0,65 |

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Name: (46)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:91 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB – R_1500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.176 | 1.500 | RSS D = 0.176 B = 1.5 |
| 2 | 0.344 | 1.500 | RSS D = 0.344 B = 1.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section



Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation:

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance | Edit... |
|---|----------------------------------|---------------------|----------|---------|
| 1 | 1,50 x 0,176 (RSS D=0,176 B=1,5) | Start | 0,0 | Insert |
| 2 | 1,50 x 0,344 (RSS D=0,344 B=1,5) | Linear | 0,65 | Delete |

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Section 1-1 Section 2-2

Name: (47)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:92 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - R_2000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.176 | 2.000 | RSS D = 0.176 B = 2.0 |
| 2 | 0.344 | 2.000 | RSS D = 0.344 B = 2.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section

Analysis category
Distance interpretation

Specify shape interpolation
 Symmetric section

Scaled to fit each line individually
 Along reference path Centerline

| | Section | Shape Interpolation | Distance | Edit... |
|---|--------------------------------|---------------------|----------|---------|
| 1 | 2.00 x 0.176 (RSS D=0.176 B=2) | Start | 0.0 | Insert |
| 2 | 2.00 X 0.344 (RSS D=0.344 B=2) | Linear | 0.65 | Delete |

Alignment

Vertical Top to top ey origin Same as ez Align all sections to section 2

Horizontal Centre to centre ez origin Centroid Interpolation of properties Use Section Calculato

Section 1-1

Section 2-2

Name EB - R_2000 (48)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:93 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - R_2500:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.176 | 2.500 | RSS D = 0.176 B = 2.5 |
| 2 | 0.344 | 2.500 | RSS D = 0.344 B = 2.5 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section ×

Analysis category:

Specify shape interpolation

Symmetric section

Distance interpretation

Scaled to fit each line individually

Along reference path

| | Section | Shape Interpolation | Distance |
|---|----------------------------------|---------------------|----------|
| 1 | 2.50 x 0.176 (RSS D=0.176 B=2.5) | Start | 0,0 |
| 2 | 2.50 x 0.344 (RSS D=0.344 B=2.5) | Linear | 0,65 |

Edit...
Insert
Delete
Flip

Alignment

Vertical: ey origin:

Horizontal: ez origin:

Align all sections to section:

Interpolation of properties:

Name: (49)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:94 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

EB - R_3000:

| Section | D | B | Section |
|---------|-------|-------|-----------------------|
| 1 | 0.176 | 3.000 | RSS D = 0.176 B = 3.0 |
| 2 | 0.344 | 3.000 | RSS D = 0.344 B = 3.0 |
| - | m | m | - |

Eccentricity in z direction (ez): -0.412 m

Multiple Varying Section



Analysis category:

Specify shape interpolation
 Symmetric section

Distance interpretation:
 Scaled to fit each line individually
 Along reference path:

| | Section | Shape Interpolation | Distance |
|---|--------------------------------|---------------------|----------|
| 1 | 3,00 x 0,176 (RSS D=0,176 B=3) | Start | 0,0 |
| 2 | 3,00 X 0,344 (RSS D=0,344 B=3) | Linear | 0,65 |

Edit...
Insert
Delete
Flip

Alignment:
Vertical: ey origin:
Horizontal: ez origin:

Align all sections to section:
Interpolation of properties:

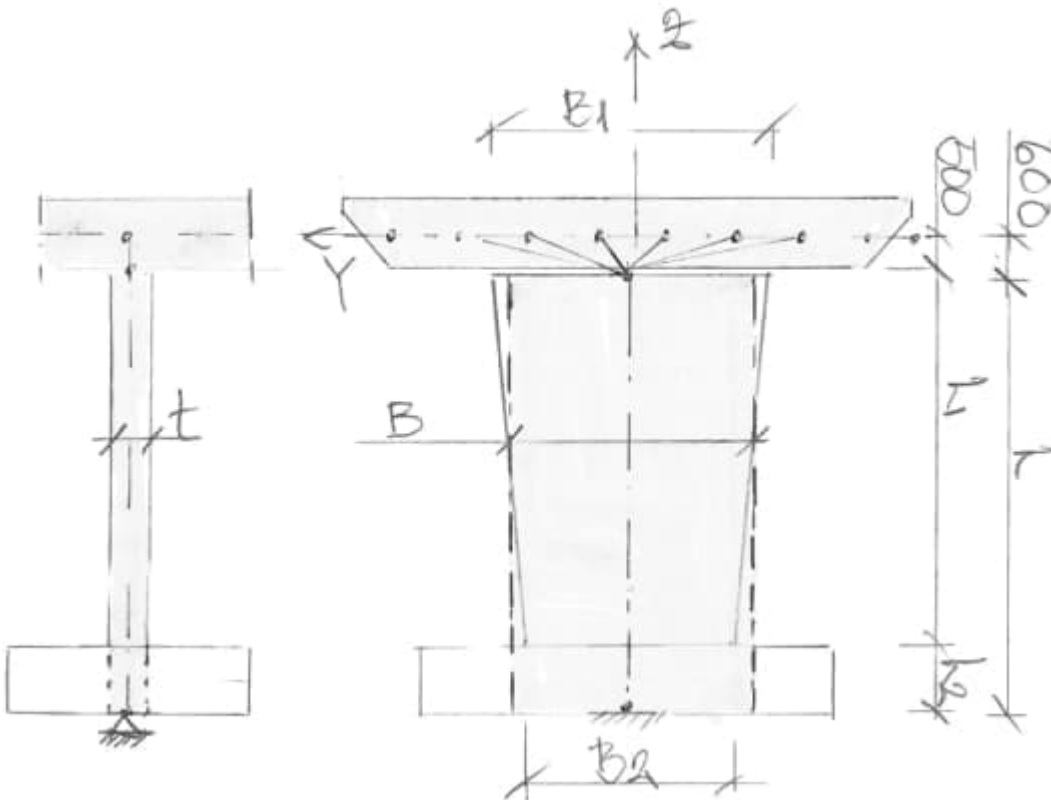
Name: (50)

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:95 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.3.3 Column (CL)

There are a total of 4 pillars belonging to Support 3-6. These have varying lengths, but they are modeled with a constant simplified geometry B x L x t as shown below. This simplification is considered possible because the pillars have significant slenderness in the length direction. The existing boundary conditions also contribute to this.

| B | L | t |
|------|-------|------|
| 3.90 | 12.67 | 0.60 |
| 3.90 | 11.48 | 0.60 |
| 3.90 | 9.32 | 0.60 |
| 3.90 | 10.08 | 0.60 |
| m | m | m |



Simplified cross section.

| Section | D | B | Section |
|---------|-------|-------|---------------------|
| 4 | 0.600 | 3.900 | RSS D = 0.6 B = 3.9 |
| - | m | m | - |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:96 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Geometric Line



Analysis category

Definition

From library / calculator

Rotation about centroid °

Mirrored about axis

Enter properties

Usage

Parametric Sections

Rectangular Sections

100%

Reinforcement (only used for RC design checks)

ez origin ey origin

| | Value |
|---|----------|
| Cross sectional area (A) | 2,34 |
| Second moment of area about y axis (Iyy) | 0,0702 |
| Second moment of area about z axis (Izz) | 2,96595 |
| Product moment of area (Iyz) | 0,0 |
| Torsional constant (J) | 0,253592 |
| Effective shear area in y direction (Asy) | 1,95003 |
| Effective shear area in z direction (Asz) | 1,95125 |
| Eccentricity in y direction (ey) | 0,0 |
| Eccentricity in z direction (ez) | 0,0 |

Visualise... Tapering >> Section details...

Name (17)

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:97 |
| | | Date : | Created : |

2.4 MATERIAL

According to common calculation practice, prestressed structural elements shall be given higher stiffness than non-prestressed ones. In the calculation, non-prestressed structural elements are assumed to be cracked, which results in reduced stiffness. In the calculation, the E-modulus for non-prestressed structural elements is reduced to $0.6E_{ck} = 20400 \text{ MPa}$.

The longitudinal beams (LB) are modeled as uncracked and with weight.

Other beams are modeled as cracked and weightless.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:98 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.4.1 Material longitudinal beams (uncracked)

Isotropic

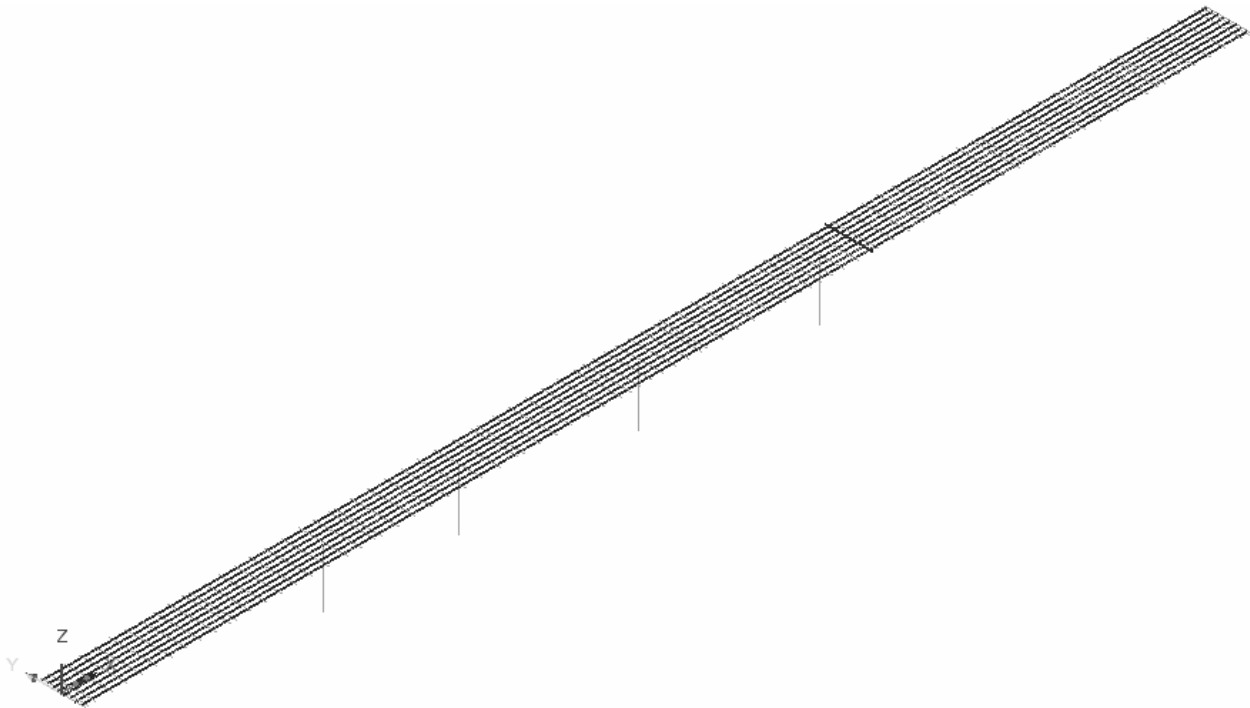
Plastic
 Creep
 Damage
 Shrinkage
 Viscous
 Two phase
 Ko Initialisation

Elastic

Dynamic properties
 Thermal expansion

| | Value |
|----------------------------------|---------|
| Young's modulus | 34.0E6 |
| Poisson's ratio | 0.2 |
| Mass density | 2.4 |
| Coefficient of thermal expansion | 10.0E-6 |

Name (4)



| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:99 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

2.4.2 Material transversal beams (cracked)

Isotropic

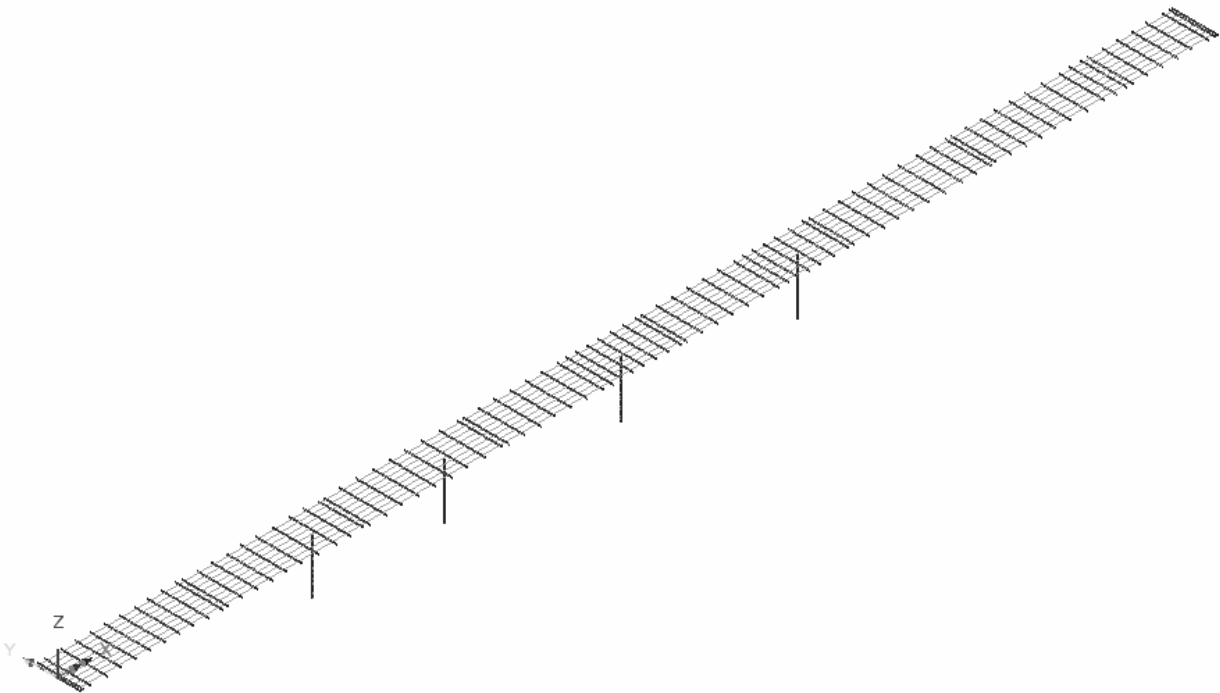
Plastic
 Creep
 Damage
 Shrinkage
 Viscous
 Two phase
 Ko Initialisation

Elastic

Dynamic properties
 Thermal expansion

| | Value |
|----------------------------------|---------|
| Young's modulus | 20,42E6 |
| Poisson's ratio | 0,2 |
| Mass density | 1,0E-3 |
| Coefficient of thermal expansion | 10,0E-6 |

Name (5)



| | | | |
|--|---------------------------------------|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:100 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

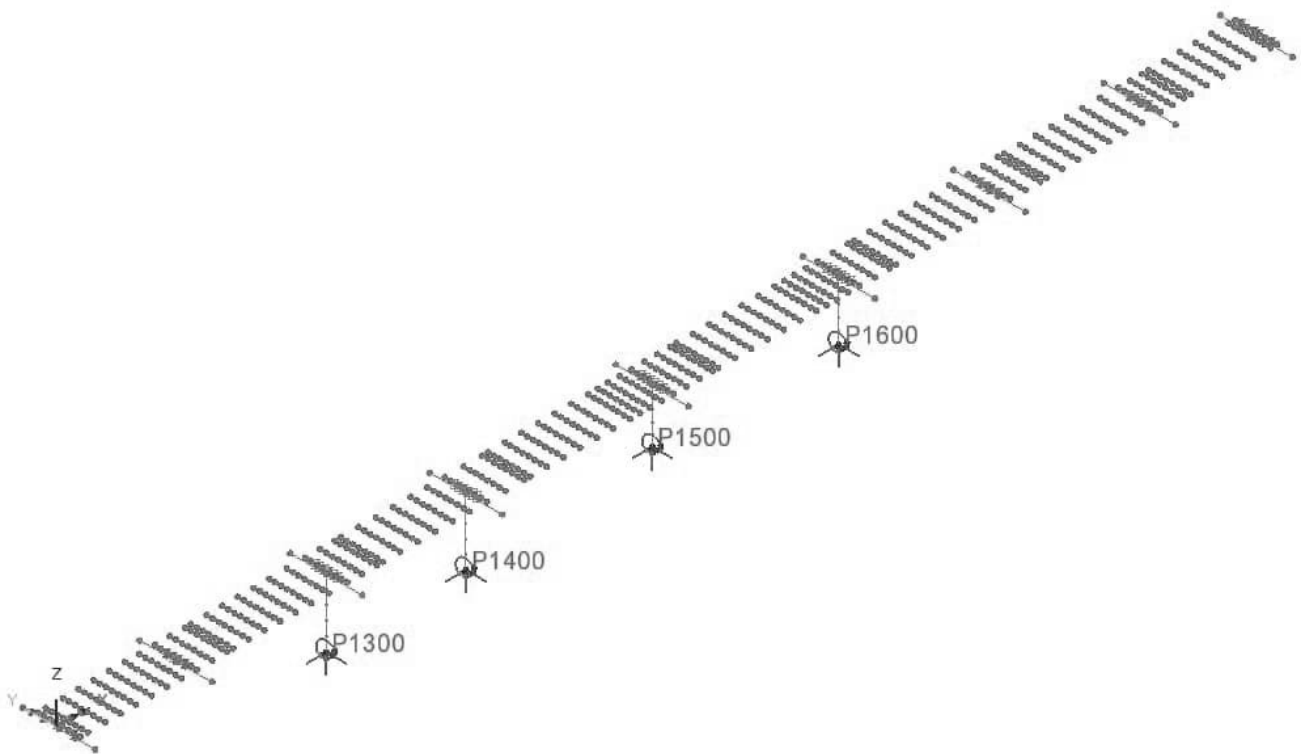
2.5 BOUNDARY CONDITIONS

2.5.1 Foundation

Support 3-6 är modellerad med *Point Supports*.

The boundary conditions in these “super-nodes” are modelled according to global coordinate system as shown in sketch.

| Support | Point | Direction | TX | TY | TZ | RX | RY | RZ |
|---------|-------|-----------|-------|-------|-------|---------|---------|---------|
| 3 | P1300 | Global | Fixed | Fixed | Fixed | Fixed | Free | Free |
| 4 | P1400 | Global | Fixed | Fixed | Fixed | Fixed | Free | Free |
| 5 | P1500 | Global | Fixed | Fixed | Fixed | Fixed | Free | Free |
| 6 | P1600 | Global | Fixed | Fixed | Fixed | Fixed | Free | Free |
| - | - | - | kN/m | kN/m | kN/m | kNm/rad | kNm/rad | kNm/rad |

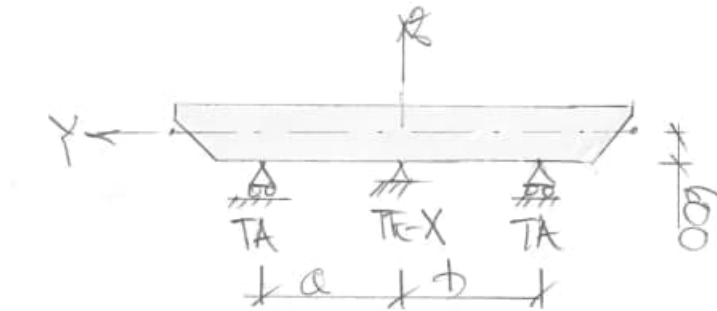


Overview

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:101 |
| | | Date : | Created : |

2.5.2 Bearings

Bearings at support 1, 2, 7, 8 and 9 are modeled with *Point Supports*. A total of 3 are present at each support with appearance as shown below.



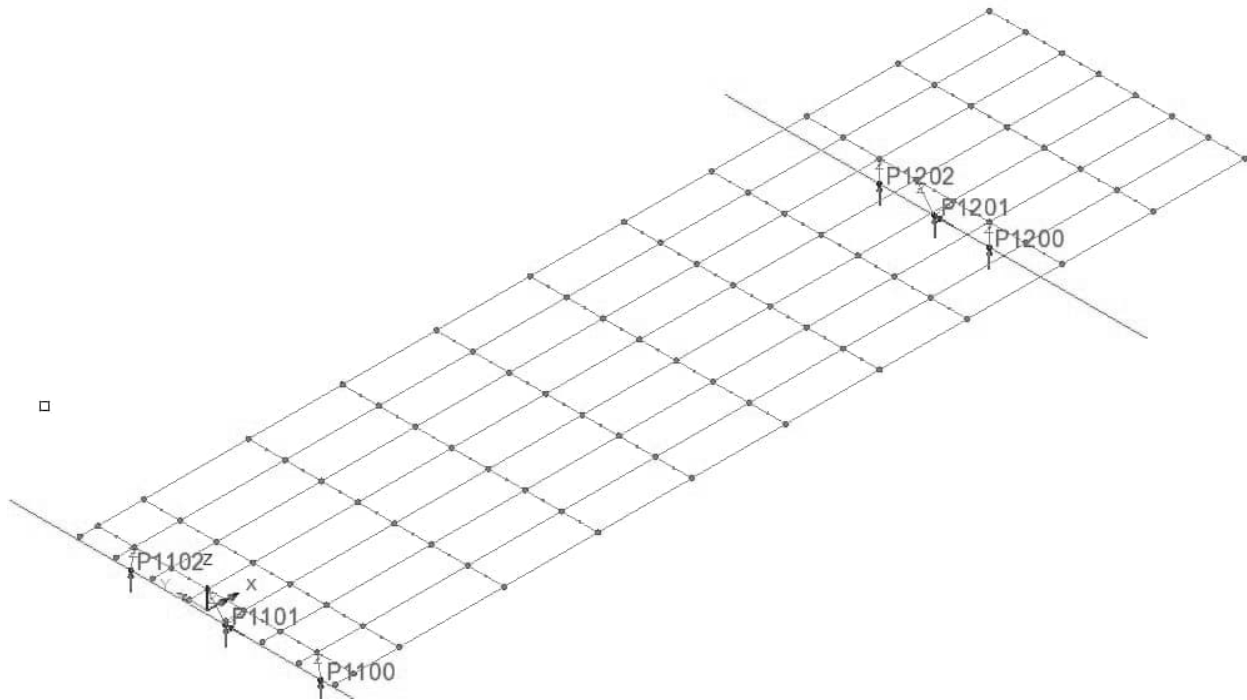
| Support | a | b |
|---------|------|------|
| 1 | 2600 | 2600 |
| 2 | 1500 | 1500 |
| 7 | 1500 | 1500 |
| 8 | 1500 | 1500 |
| 9 | 2600 | 2600 |
| - | mm | mm |

These layers are modeled in the global coordinate system with boundary conditions as described below.

| Bearing | Direction | TX | TY | TZ | RX | RY | RZ |
|---------|-----------|------|-------|-------|---------|---------|---------|
| TA | Global | Free | Free | Fixed | Free | Free | Free |
| TE-X | Global | Free | Fixed | Fixed | Free | Free | Free |
| - | - | kN/m | kN/m | kN/m | kNm/rad | kNm/rad | kNm/rad |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:102 |
| | | Date : | Created : |

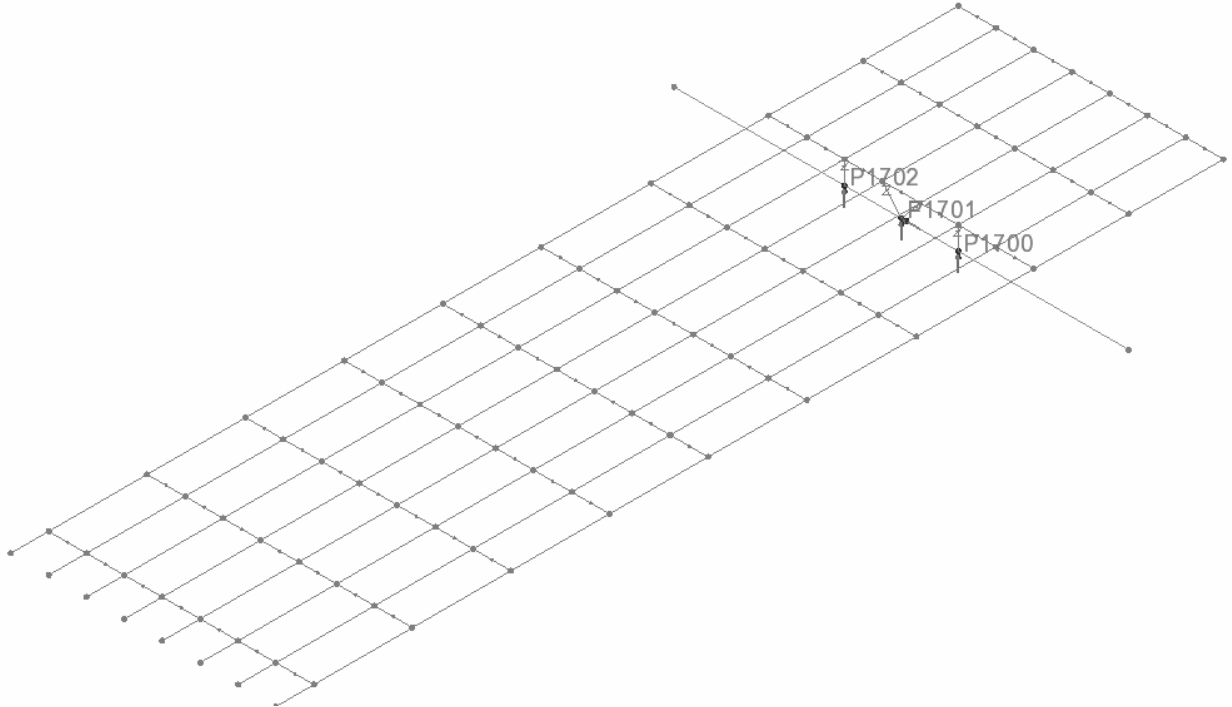
Overview of bearings at casting stage 1:
Support 1 & 2



| Support | Typ | Point |
|---------|------|-------|
| 1 | TA | P1100 |
| 1 | TE-X | P1101 |
| 1 | TA | P1102 |
| 2 | TA | P1200 |
| 2 | TE-X | P1201 |
| 2 | TA | P1202 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:103 |
| | | Date : | Created : |

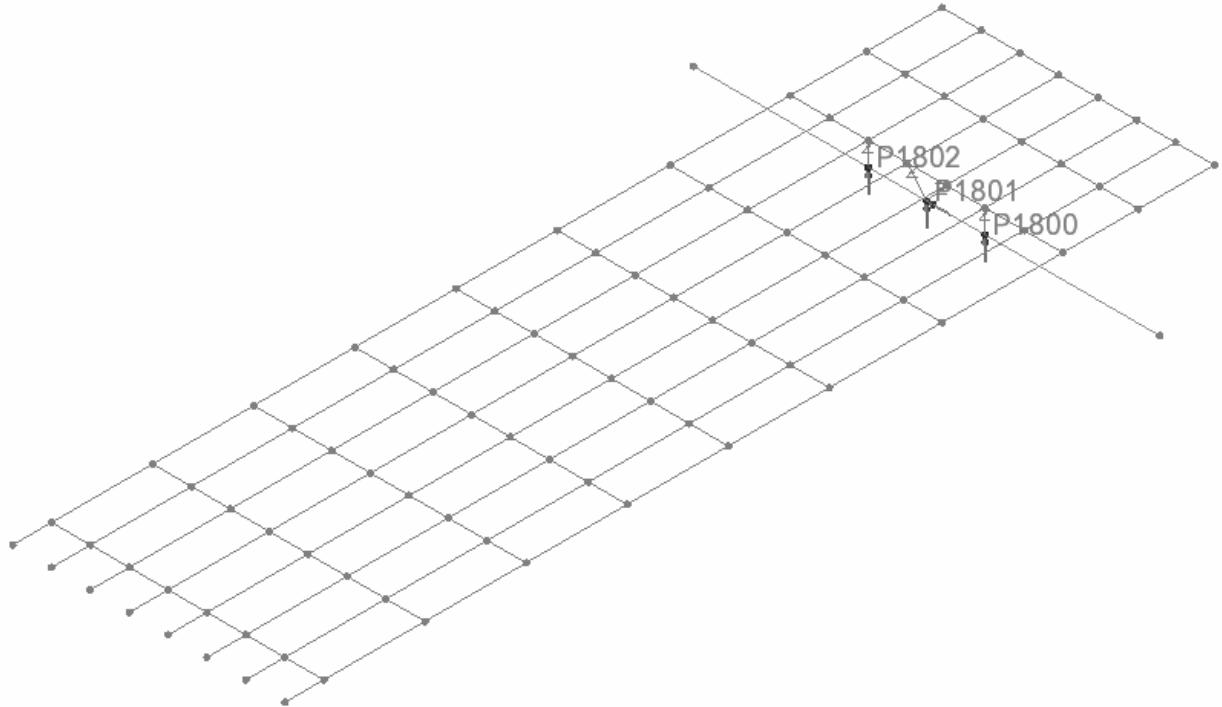
Overview of bearings at casting stage 6:
Support 7



| Support | Typ | Point |
|---------|------|-------|
| 7 | TA | P1700 |
| 7 | TE-X | P1701 |
| 7 | TA | P1702 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:104 |
| | | Date : | Created : |

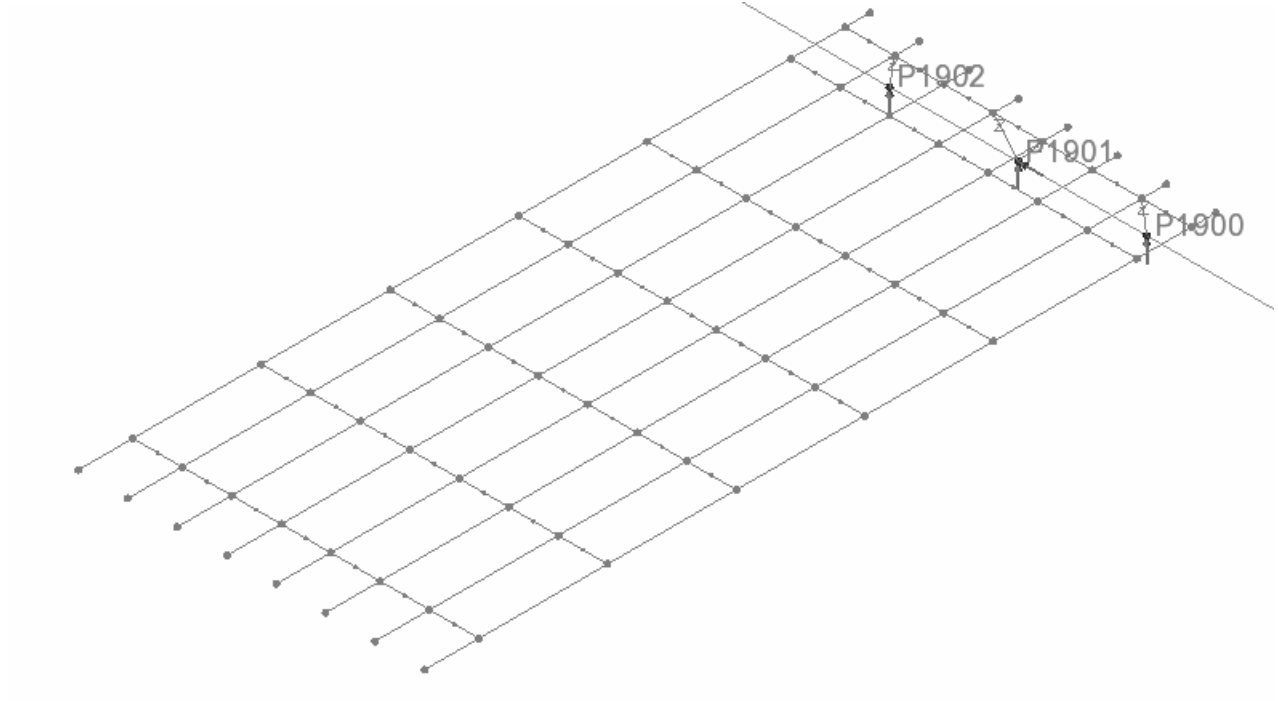
Overview of bearings at casting stage 7:
Support 8



| Support | Typ | Point |
|---------|------|-------|
| 8 | TA | P1800 |
| 8 | TE-X | P1801 |
| 8 | TA | P1802 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:105 |
| | | Date : | Created : |

Overview of bearings at casting stage 8:
Support 9



| Support | Typ | Point |
|---------|------|-------|
| 9 | TA | P1900 |
| 9 | TE-X | P1901 |
| 9 | TA | P1902 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:106 |
| | | Date : | Created : |

2.6 MESH

In the model, 3D beam elements (BMI21) and Joint elements (JSH4) are used. The latter are used to connect columns to the bridge deck at Support 3-6 to the bridge deck.

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:107 |
| | | Date : | Created : |

2.6.1 Beam element (BMI21)

Longitudinal beams, transversal beams, and columns are modeled as 3D beam elements.

The beam elements are modeled with varying node division within each subarea according to the presentation below.

| Name | Divisions | End release: Start | End release: End | Structure |
|-----------|-----------|-----------------------|---------------------|-----------|
| Element 1 | 1 | None | None | LB |
| Element 2 | 2 | None | None | TB & EB |
| Element 5 | 5 | None | None | Pelare |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:108 |
| | | Date : | Created : |

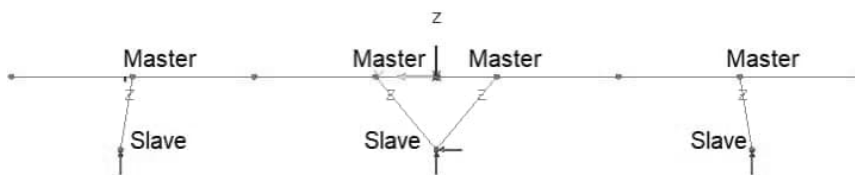
2.6.2 Joint element (JSH4): rigid link from bearing to longitudinal beams

Nodes for bearings are rigidly connected to the longitudinal girders (LB) of the bridge deck.

The controlling node is designated “Master” while the adapting node is designated “Slave”.

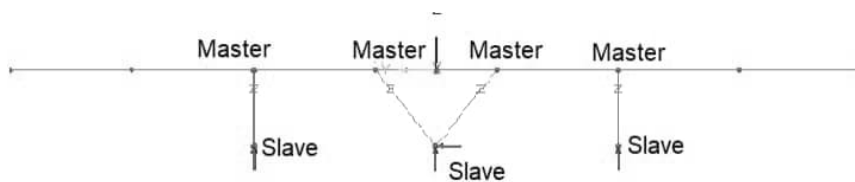
The properties of the Joint element (JSH4) are retrieved and specified in the node designated “Master”. All these nodes are assigned material properties designated “Joint material” in the table below.

| Name | u | v | w | THx | THy | Thz |
|------------------|-------|-------|-------|---------|---------|---------|
| “Joint material” | Fixed | Fixed | Fixed | Free | Free | Free |
| - | kN/m | kN/m | kN/m | kNm/rad | kNm/rad | kNm/rad |



Rigid link at end supports

Support 1 and 9



Rigid link intermediate supports

Support 2, 7 and 8

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:109 |
| | | Date : | Created : |

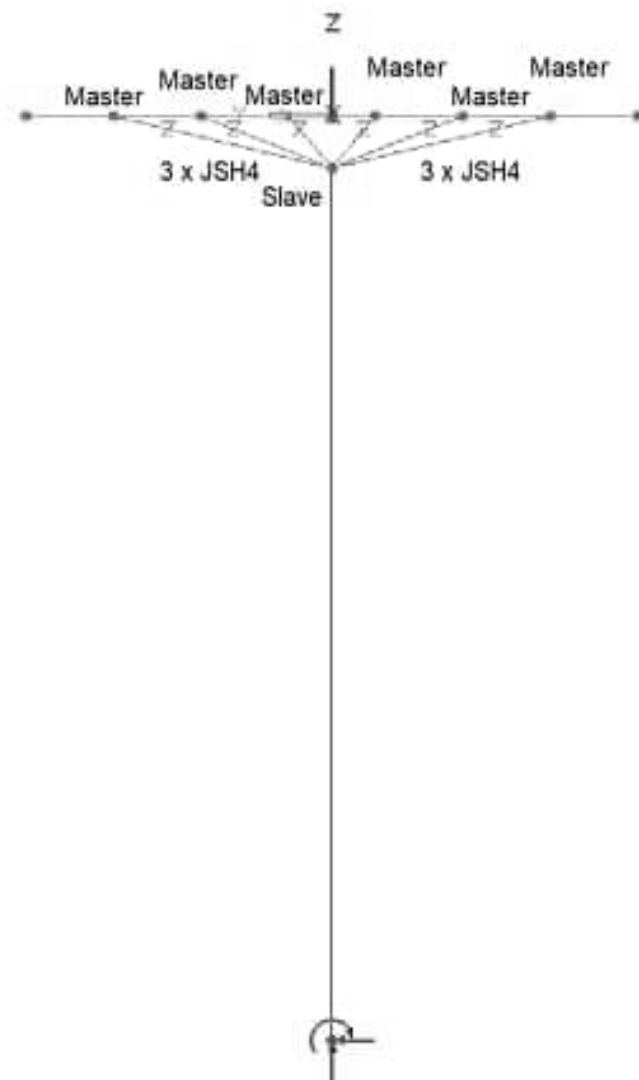
2.6.3 Joint element (JSH4): rigid link from column to transversal beams

Nodes for bearings are rigidly connected to the transverse beams of the bridge deck TB-UK.

The controlling node is designated "Master" while the adapting node is designated "Slave".

The properties of the Joint element (JSH4) are retrieved/indicated in the node designated "Master". All of these nodes are assigned material properties designated "Joint material" in the table below.

| Name | u | v | w | THx | THy | Thz |
|------------------|-------|-------|-------|---------|---------|---------|
| "Joint material" | Fixed | Fixed | Fixed | Free | Free | Free |
| - | kN/m | kN/m | kN/m | kNm/rad | kNm/rad | kNm/rad |



Ridig connection intermeditate supports Support 3-6

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:110 |
| | | Date : | Created : |

2.7 STAGED CONSTRUCTION

There are a total of 8 construction stages.

The geometric model is the same for these systems, however, it is allowed that boundary conditions, material properties, cross-section constants, and loads vary between the different static systems.

Analysis 9 is referred to as "Base Analysis" and corresponds to the static system in the operational phase. The other analyses are based on this one.

| Nr | Analysis | Stage |
|----|----------|------------|
| 1 | 1 | I |
| 2 | 2 | II |
| 3 | 3 | III |
| 4 | 4 | IV |
| 5 | 5 | V |
| 6 | 6 | VI |
| 7 | 7 | VII |
| 8 | 8 | VIII |
| 9 | 9 * | Driftskede |

* = "Definition of base analysis"

| | | | |
|--|---------------------------------------|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:111 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

The redistribution occurs so that the static system that exists in the "construction stage" transitions to that which exists for the continuous static system present in the "operational stage". The simplified method according to SS-EN 1992-2 section KK.7 is used to study the impact of staged construction.

For the check, it has been assumed that there are 2 months (60 days) between the time (t_0) of casting stage until the formwork removal of the adjoining casting stage (t_c).

$$S(t) \approx \sum_{i=1}^8 S_{0,i} + \left(S_c - \sum_{i=1}^8 S_{0,i} \right) \cdot \frac{\varphi(t) - \varphi(60days)}{1 + 0.8 \cdot \varphi(t)}$$

S_c : forces static system operational stage

$S_{0,i}$: forces static system during construction stages

$$\varphi(60days) = 0.4$$

$$\varphi(120\text{ years}) = 1.4$$

$$S(120years) \approx \sum_{i=1}^8 S_{0,i} + \left(S_c - \sum_{i=1}^8 S_{0,i} \right) \cdot \frac{1.4 - 0.4}{1 + 0.8 \cdot 1.4} = \sum_{i=1}^8 S_{0,i} + 0.47 \cdot \left(S_c - \sum_{i=1}^8 S_{0,i} \right)$$

M_c : static system "operational stage" (Analysis 9)

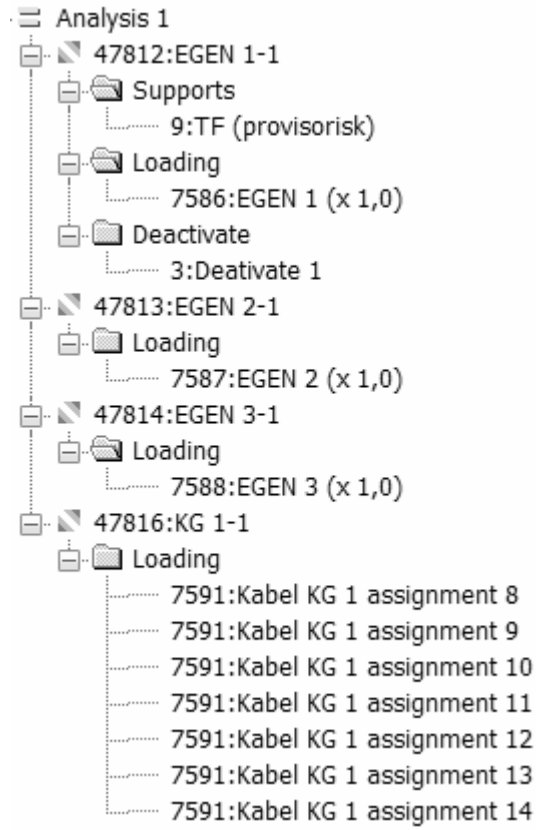
M_0 : static system "construction stage" (Analysis 1-8)

$$\rightarrow M(t = 120years) = 0.47 M_c + 0.53 M_0$$

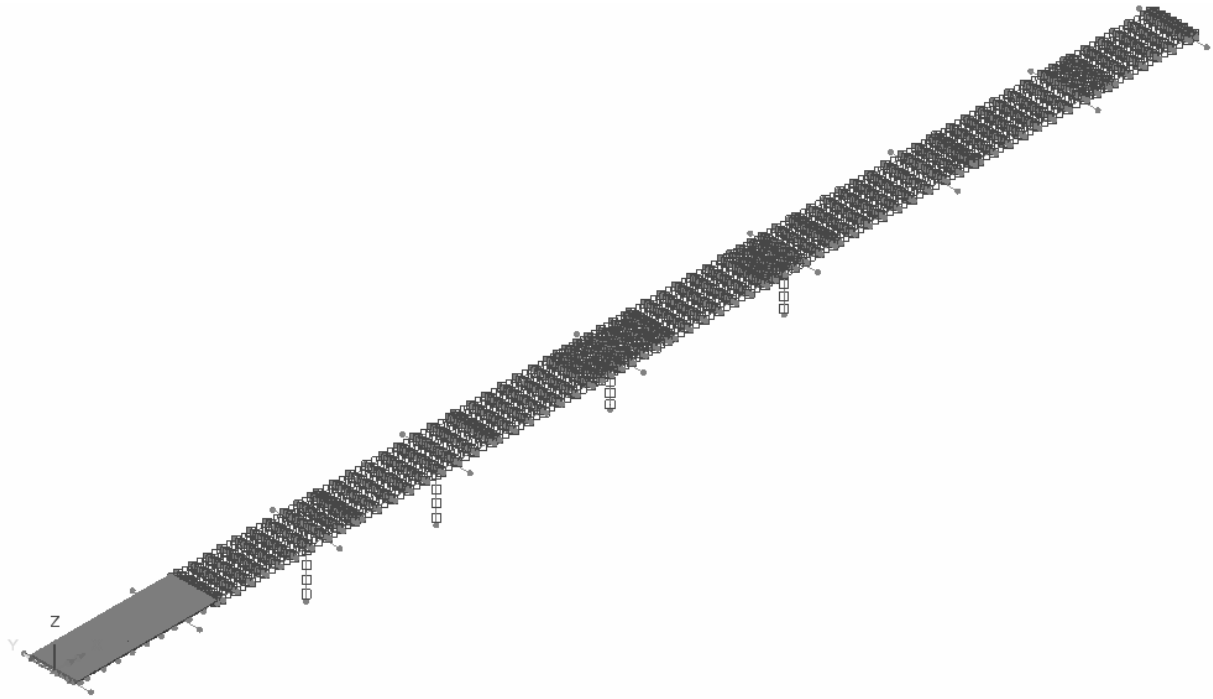
| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:112 |
| | | Date : | Created : |

Analysis 1:

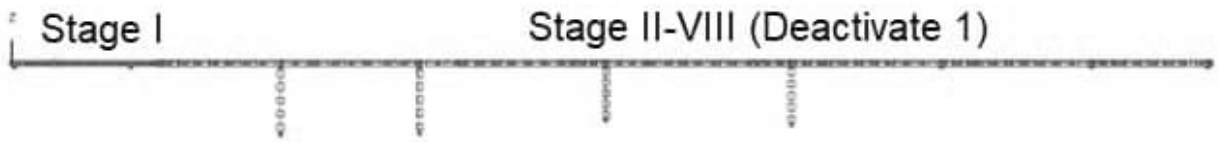
(Only STAGE I is "active" while STAGE II-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:113 |
| | | Date : | Created : |



OVERVIEW

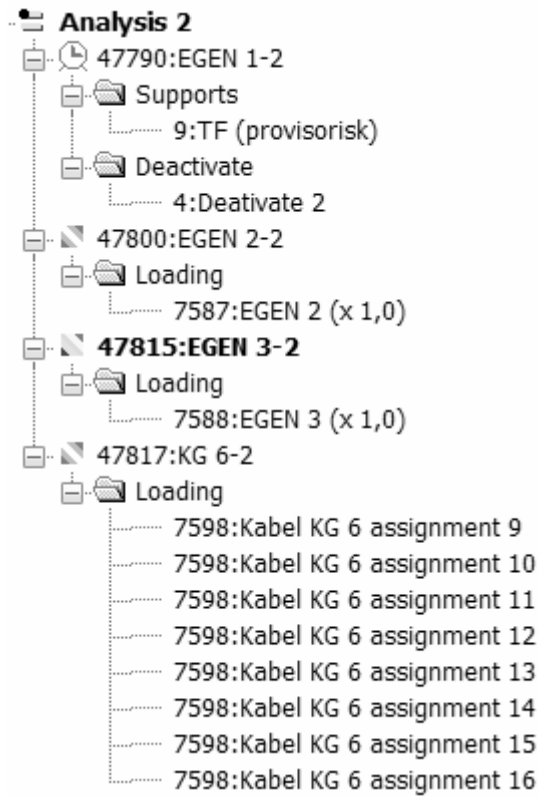


ELEVATION

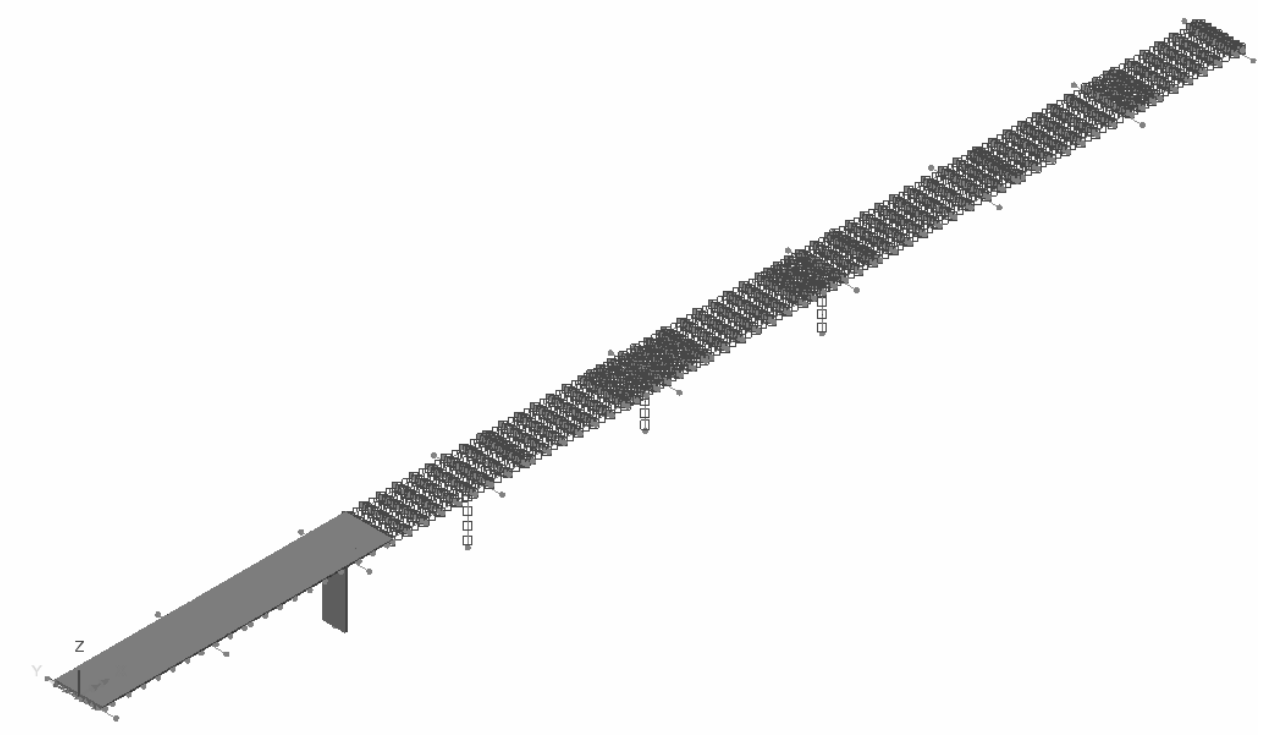
| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:114 |
| | | Date : | Created : |

Analysis 2:

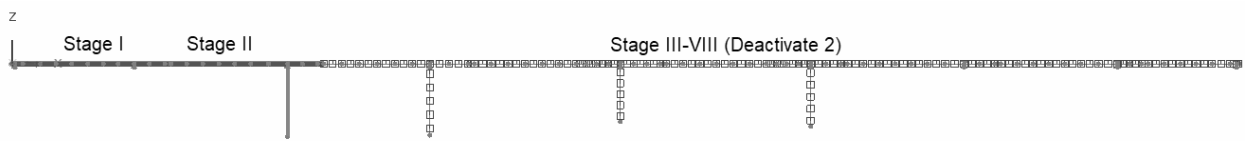
(Only STAGE I-II is "active" while STAGE III-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:115 |
| | | Date : | Created : |



OVERVIEW

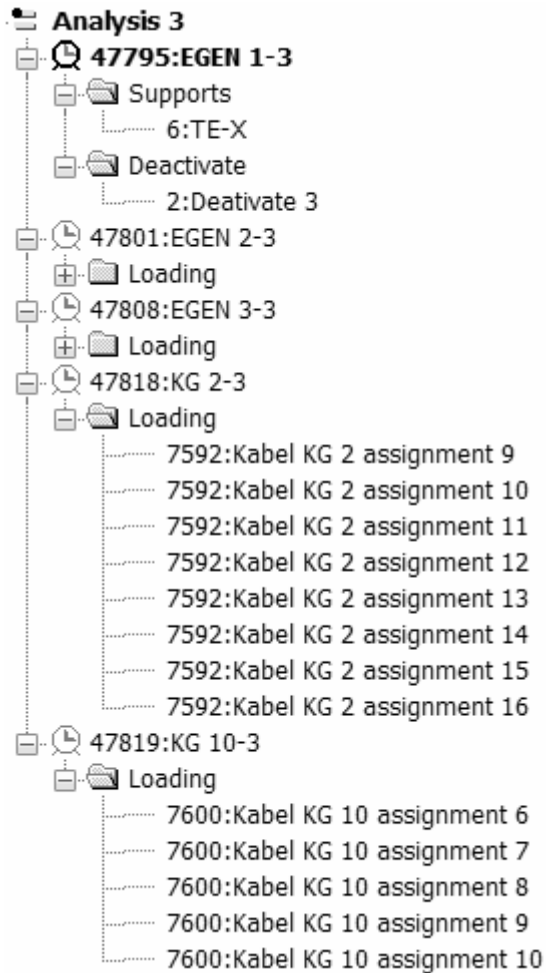


ELEVATION

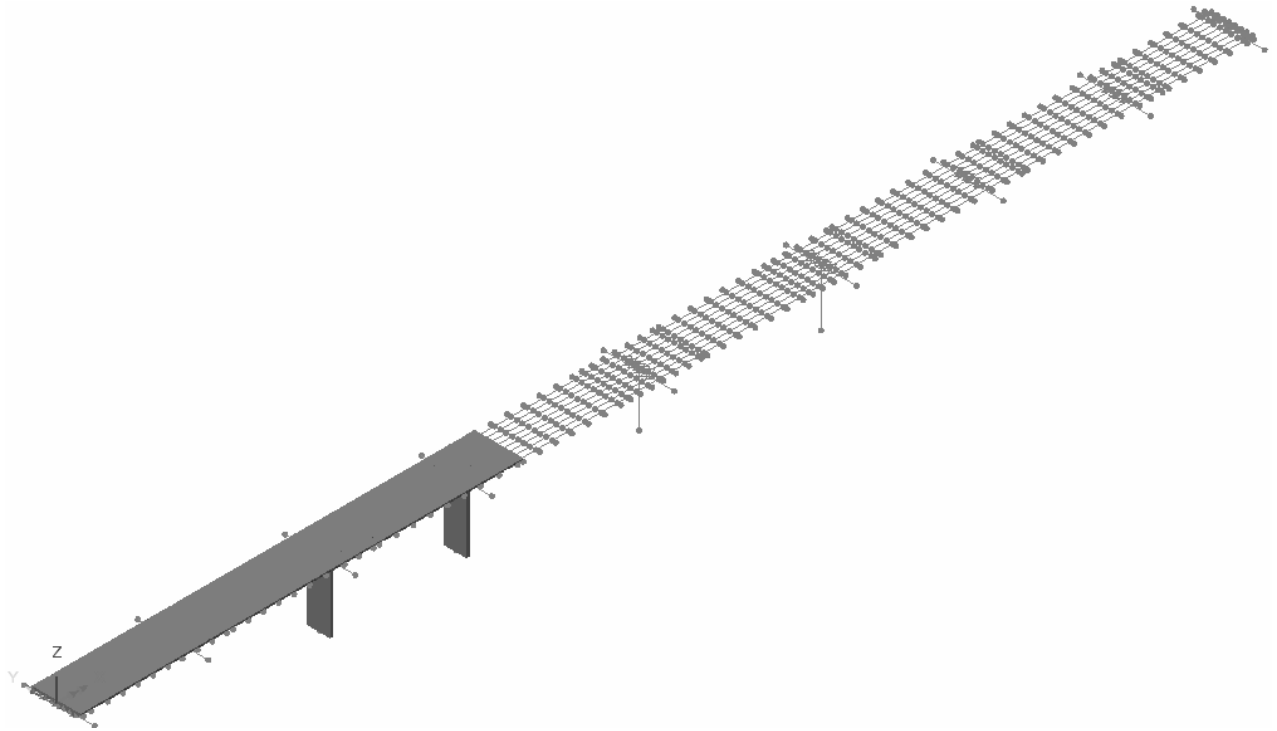
| | | | |
|--|---------------------------------------|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:116 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Analysis 3:

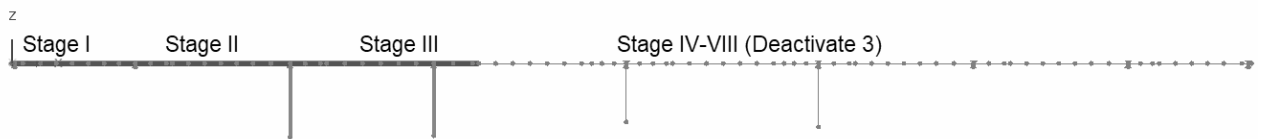
(Only STAGE I-III is "active" while STAGE IV-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:117 |
| | | Date : | Created : |



OVERVIEW

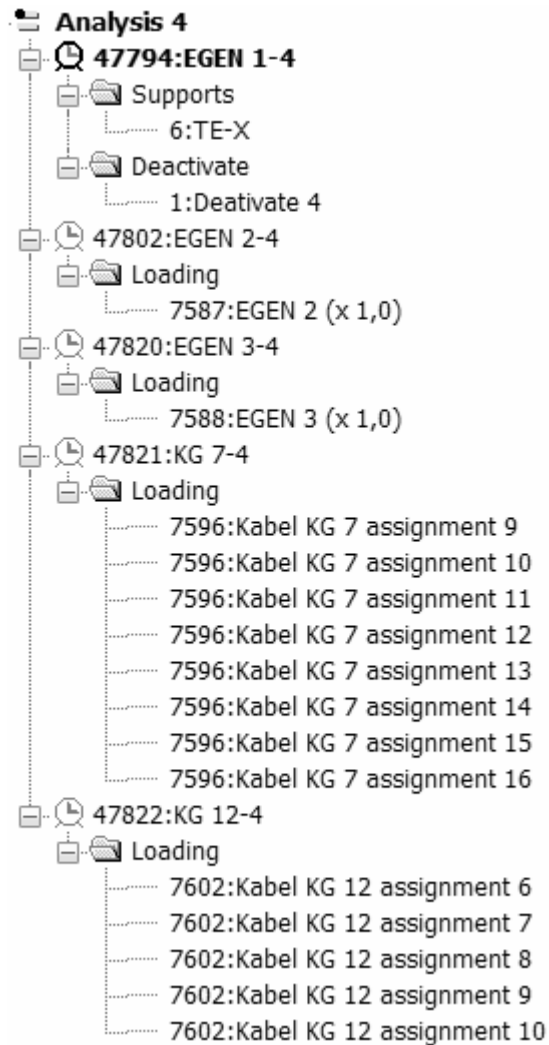


ELEVATION

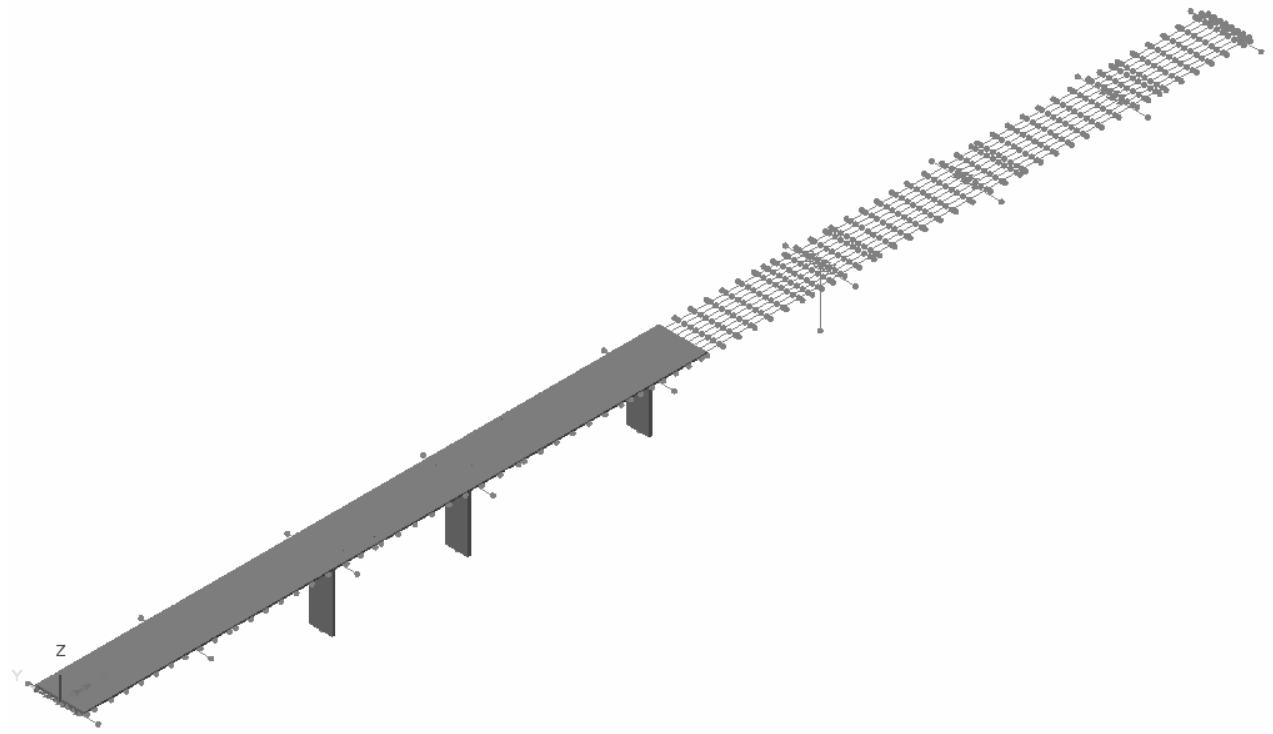
| | | | |
|--|---------------------------------------|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:118 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Analysis 4:

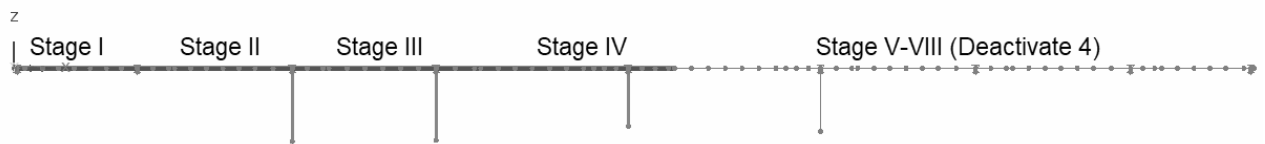
(Only STAGE I-IV is "active" while STAGE V-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:119 |
| | | Date : | Created : |



OVERVIEW

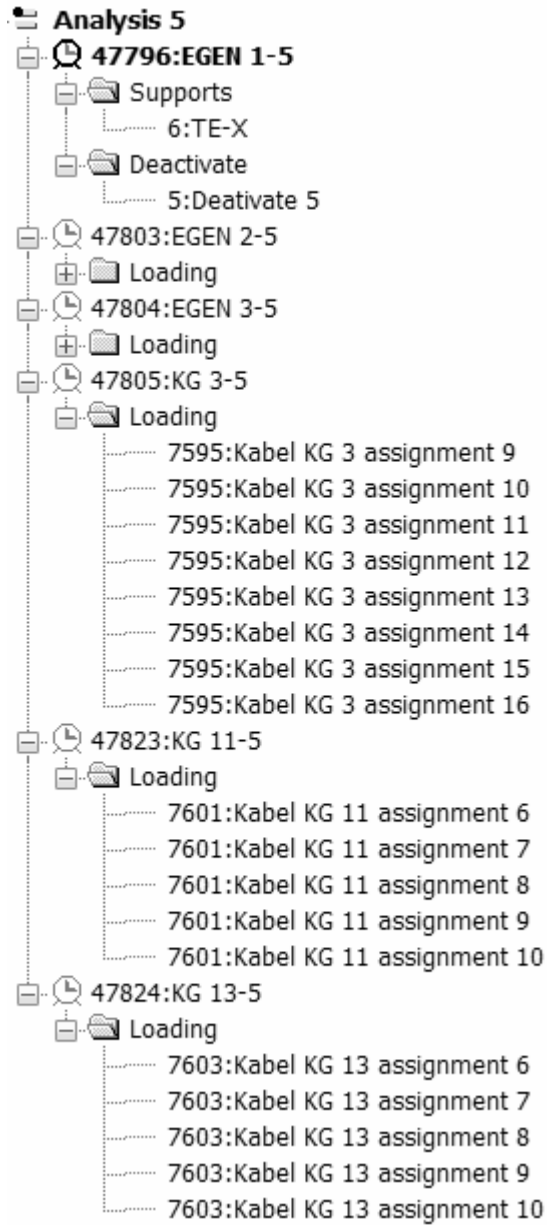


ELEVATION

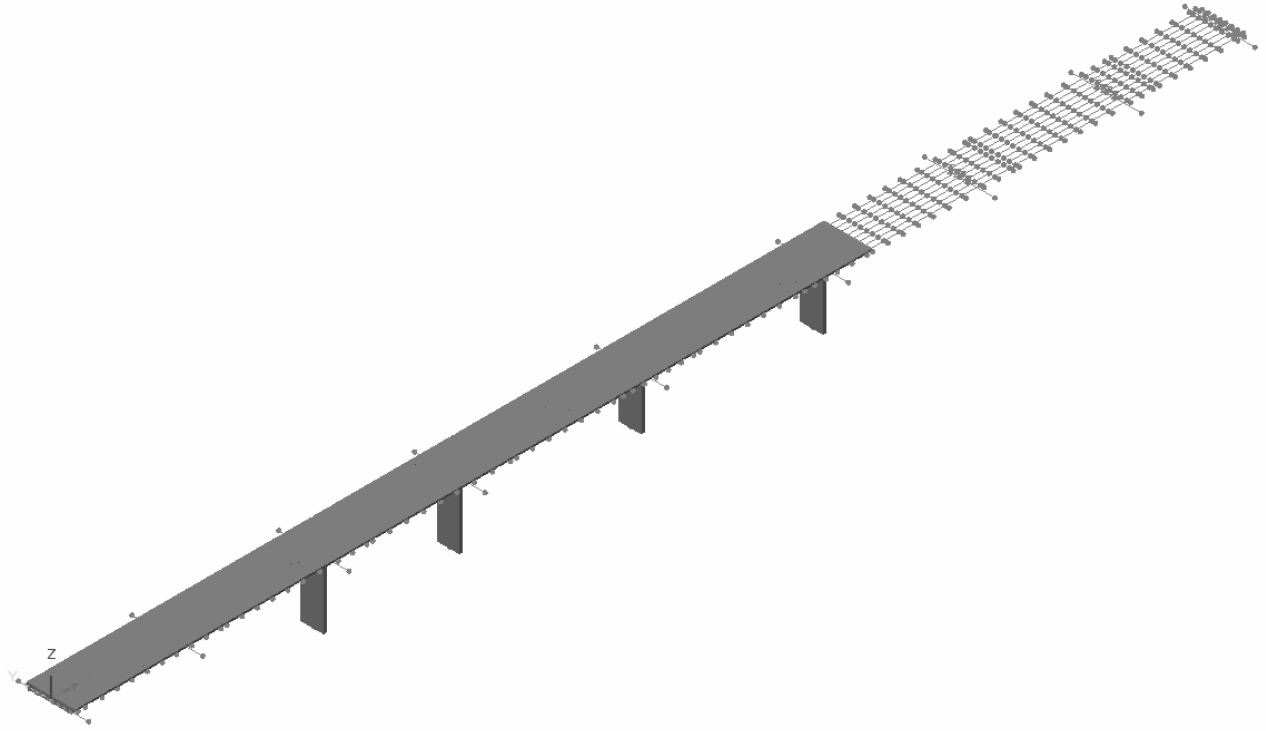
| | | | |
|--|---------------------------------------|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A2:120 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Analysis 5:

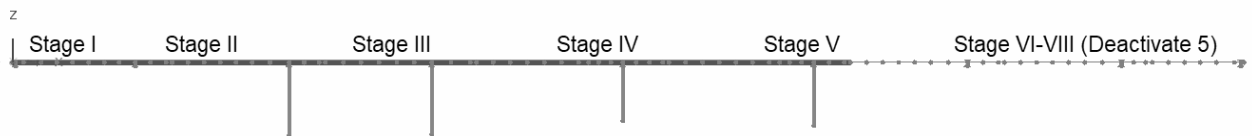
(Only STAGE I-V is "active" while STAGE VI-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:121 |
| | | Date : | Created : |



OVERVIEW

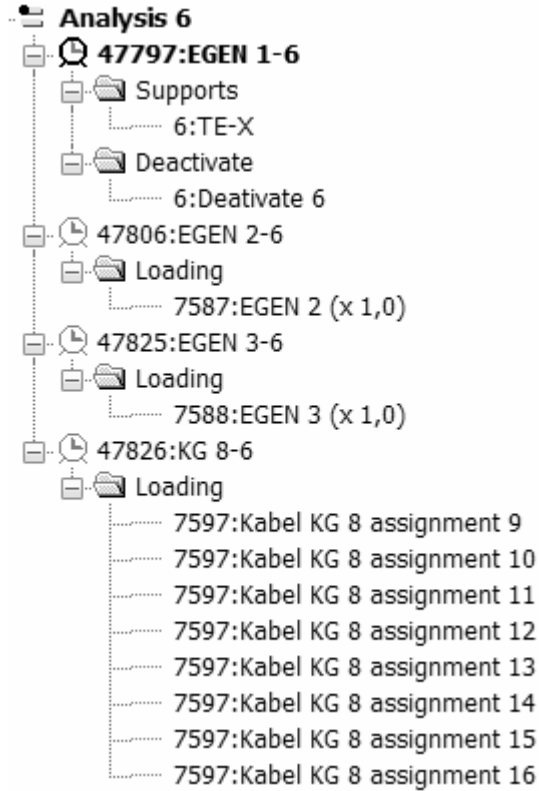


ELEVATION

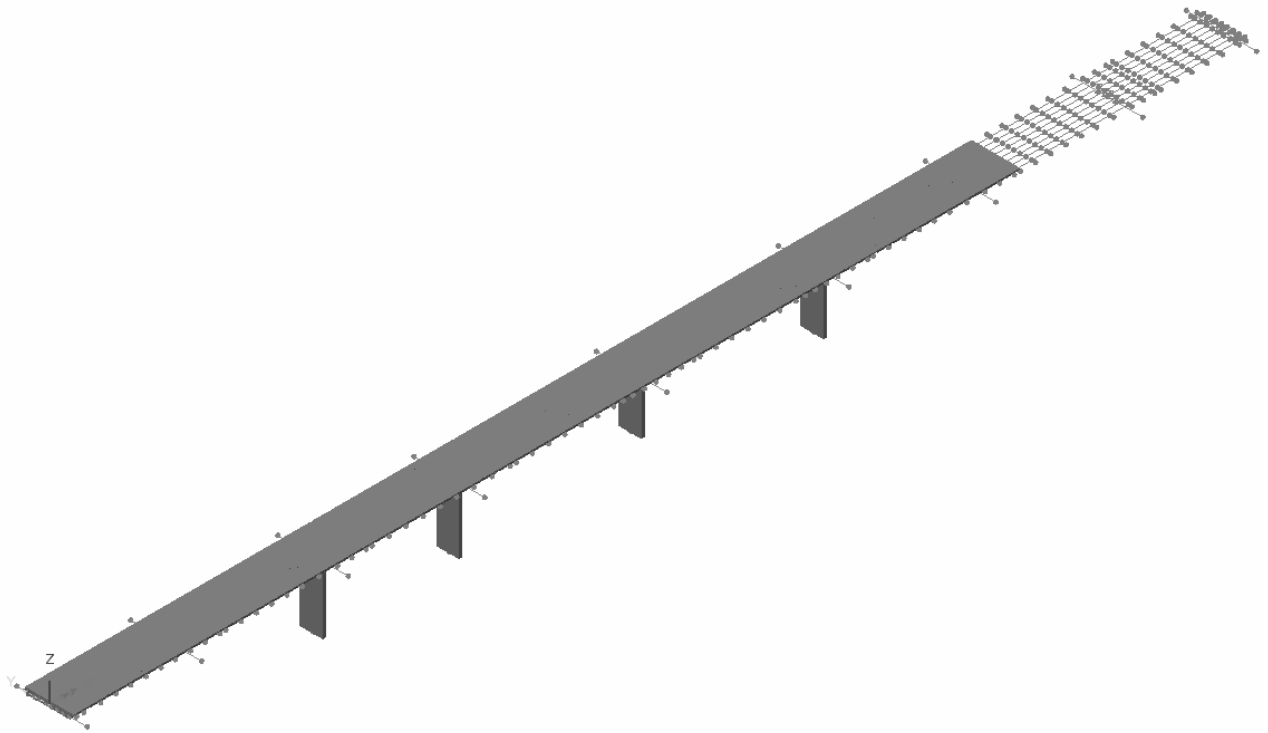
| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:122 |
| | | Date : | Created : |

Analysis 6:

(Only STAGE I-VI is "active" while STAGE VII-VIII are "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:123 |
| | | Date : | Created : |



OVERVIEW

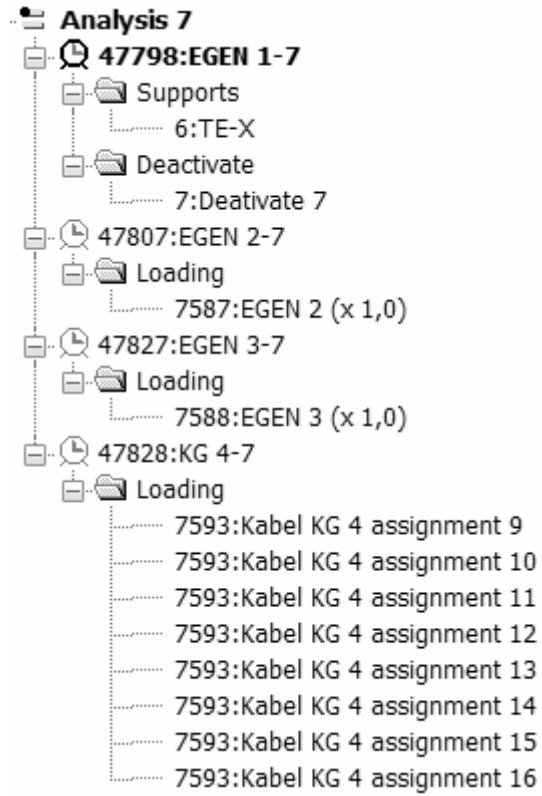


ELEVATION

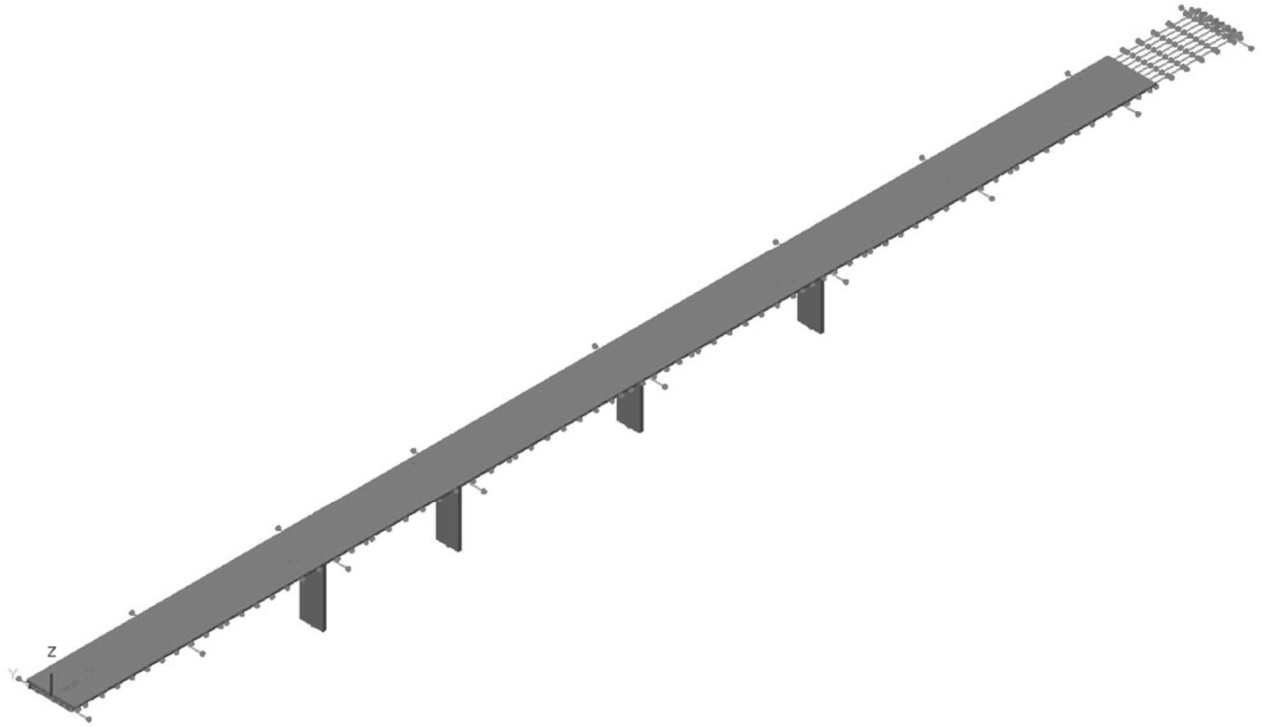
| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:124 |
| | | Date : | Created : |

Analysis 7:

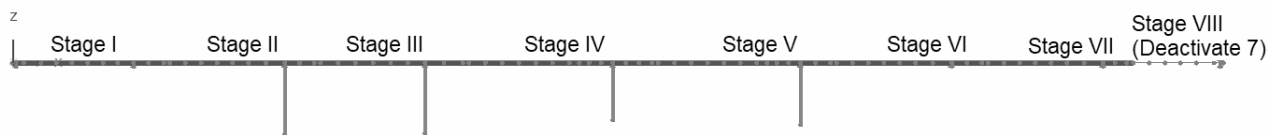
(Only STAGE I-VII is "active" while STAGE VIII is "deactive")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:125 |
| | | Date : | Created : |



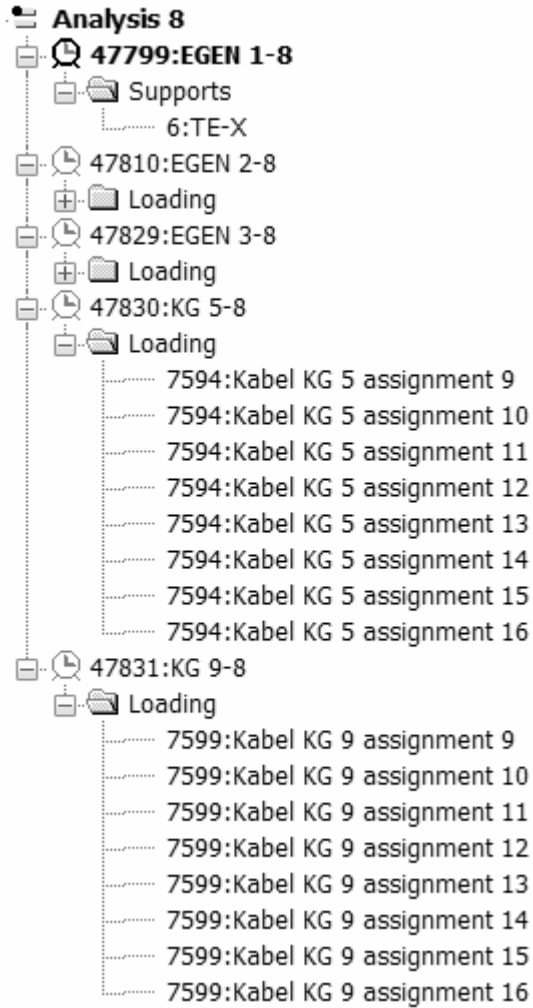
OVERVIEW



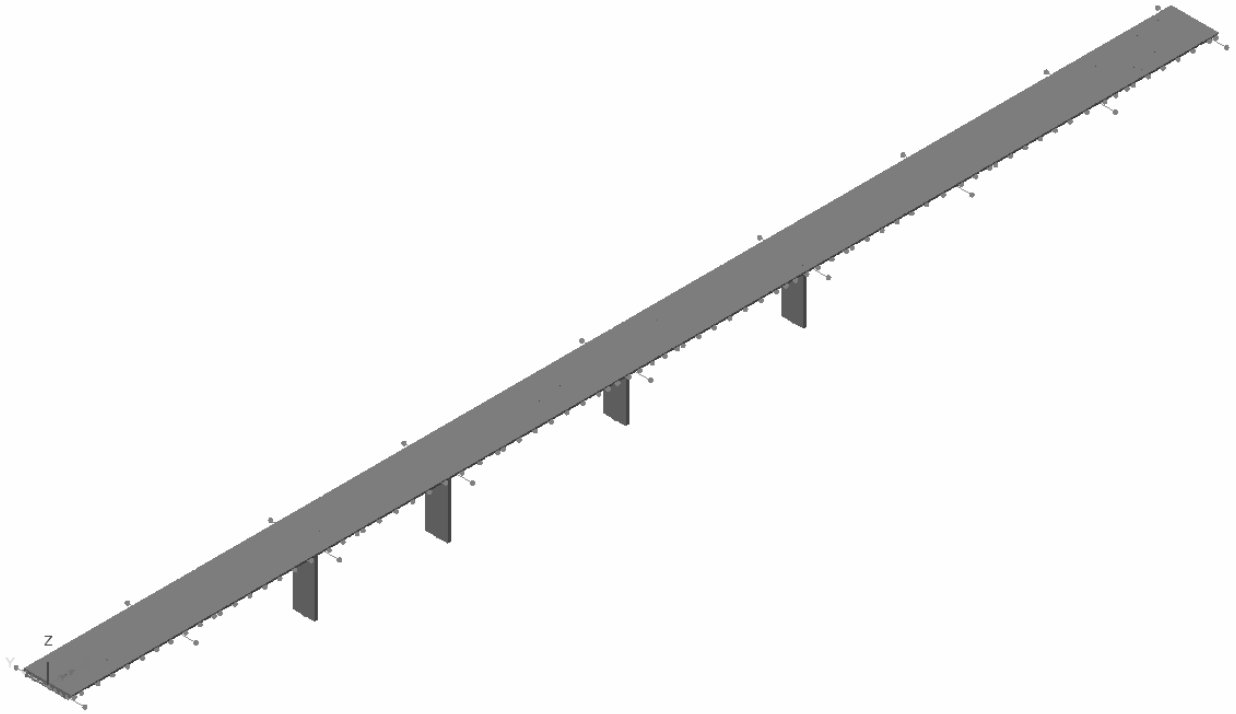
ELEVATION

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:126 |
| | | Date : | Created : |

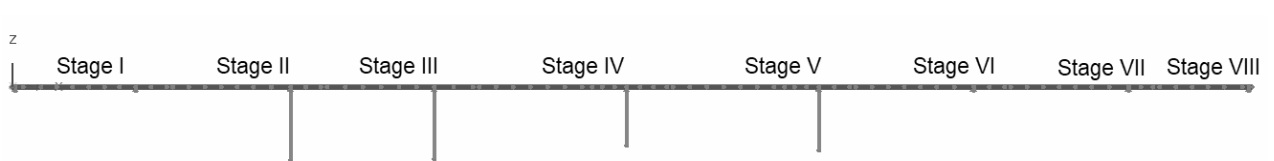
Analysis 8:
(All stages are "active")



| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:127 |
| | | Date : | Created : |



OVERVIEW



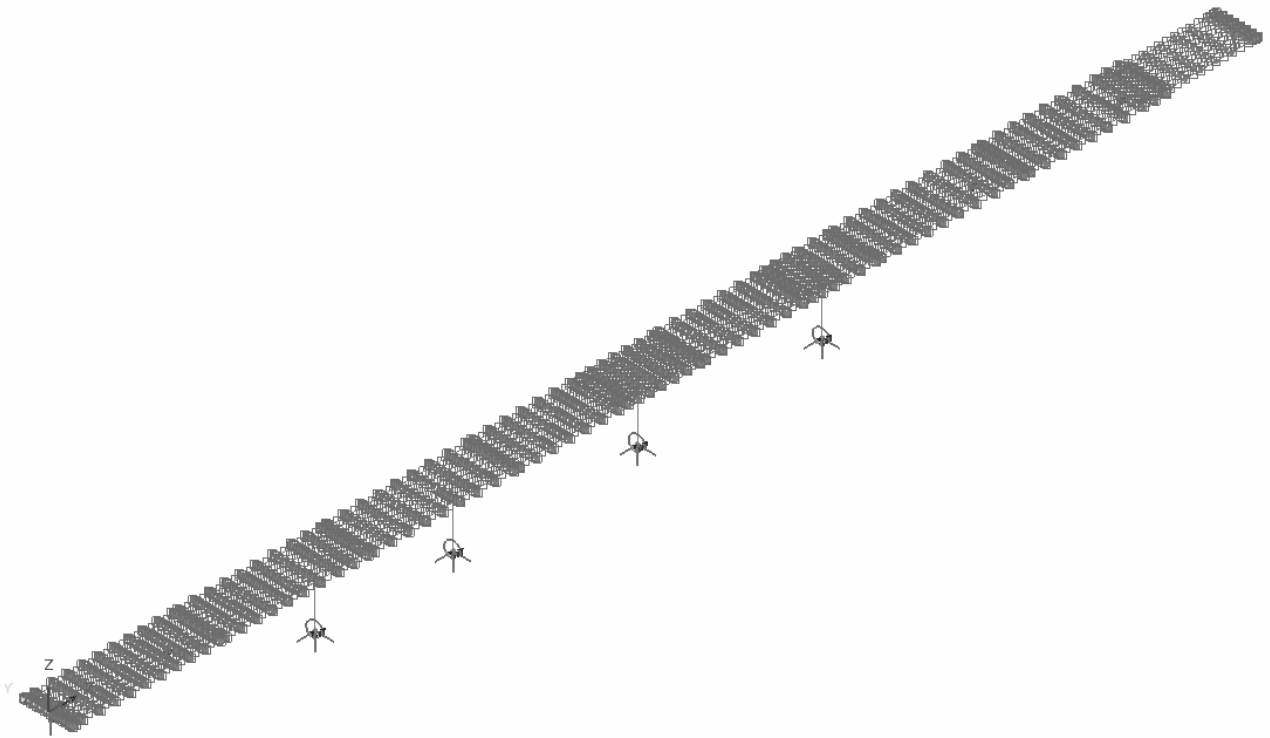
ELEVATION

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A2:128 |
| | | Date : | Created : |

2.8 SEARCH AREA

Discrete load can be applied to structure as geometrical load areas. These areas are termed Search Area.

In this case, a Search Area is defined for longitudinal beams (LB) and transversal beams at the top (TB-OK).



Search area : Deck
All LB and TB-OK

| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:1 |
| | | Date : | Created : |

3. LOADS

| | | |
|-----|-------------------|---------------|
| 3.1 | DEAD WEIGHT | page 3:2-7 |
| 3.2 | SURFACING | page 3:8 |
| 3.3 | CREEP | page 3:9-10 |
| 3.4 | SHRINKAGE | page 3:11- |
| 3.5 | TRAFFIC | page 3:12-29 |
| 3.6 | BRAKING LOAD | page 3:30-32 |
| 3.7 | TEMPERATUR | page 3:33 |
| 3.8 | PRESTRESS | page 3:34-95 |
| 3.9 | LOAD COMBINATIONS | page 3:96-107 |

Not all loads are considered. Only the above are appied.

| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:2 |
| | | Date : | Created : |

3.1 DEAD WEIGHT

$$\gamma_c = 25 \cdot \frac{kN}{m^3} \quad : \text{ betong}$$

3.1.1 Load bridge deck excl. edge beam

The loads belonging to the bridge deck, excluding edge beams, are introduced as line loads along the longitudinal beams (LB).

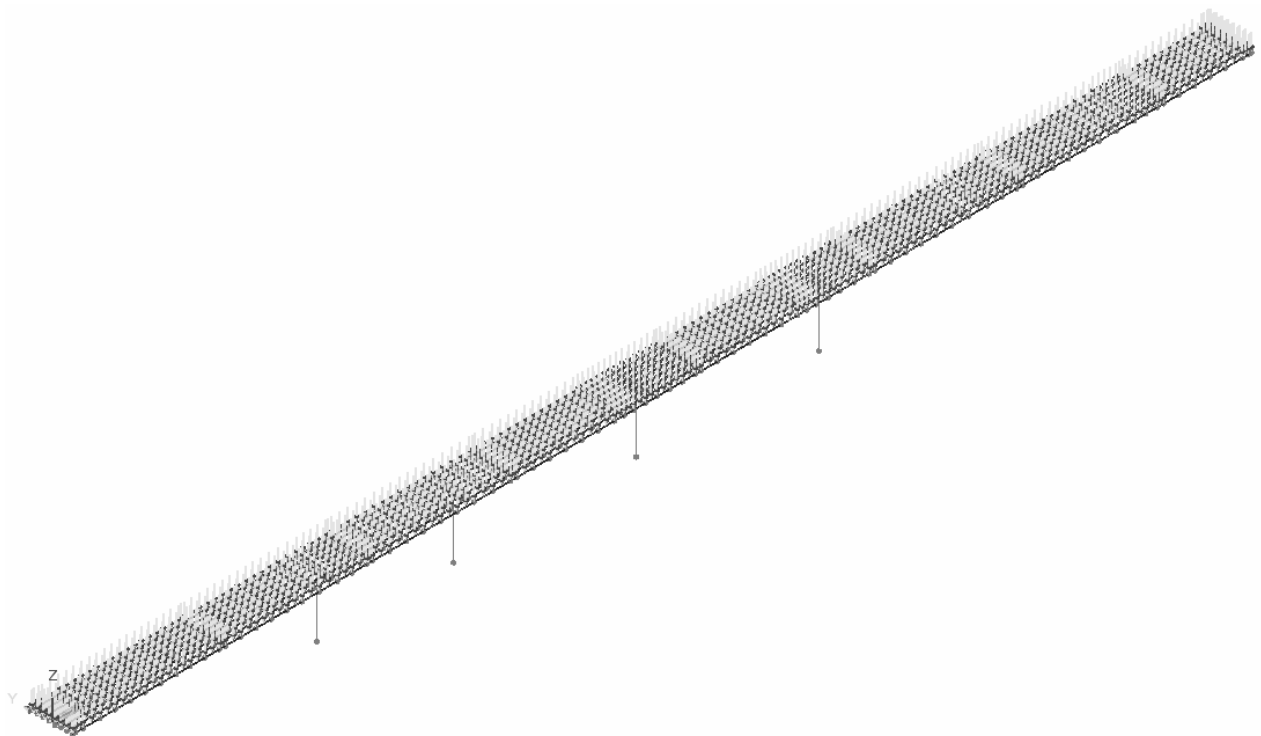
Load : EGEN 1

Structural loading : Body force

Linear acceleration in Z direction (a_z) : $-10 \frac{m}{s^2}$

Load case : EGEN 1

Loading assignment: Assign to lines (LB 1-8)



Overview 3D

| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:3 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

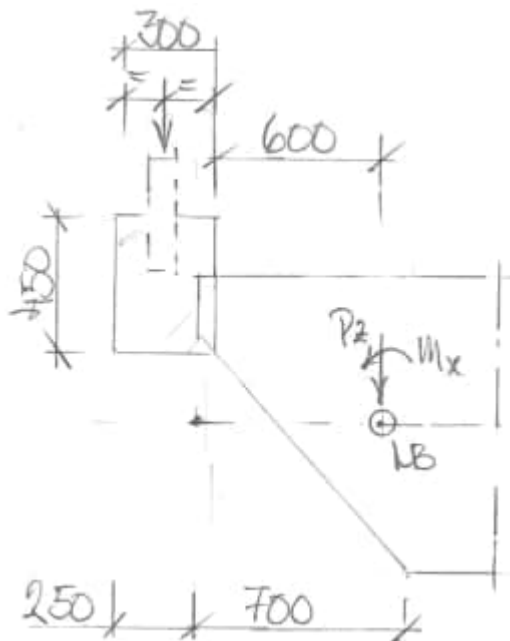
3.1.2 Edge beam + railing: left side

The load belonging to the edge beam including the railing is applied as a line load along the longitudinal beam (LB 1) nearest the left side. The effect of eccentric load placement is accounted for by applying an equivalent line moment.

$$p_{railing} = 0.5 \frac{kN}{m}$$

$$\rightarrow p_z = p_{railing} + p_{EB} = 0.5 \frac{kN}{m} + 0.45m \cdot 0.30m \cdot 24 \frac{kN}{m^3} = -4 \frac{kN}{m}$$

$$\rightarrow m_x = p_z \cdot (0.6m + 0.15m) = -3 \frac{kNm}{m}$$



| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:4 |
| | | Date : | Created : |

Load : EGEN 2

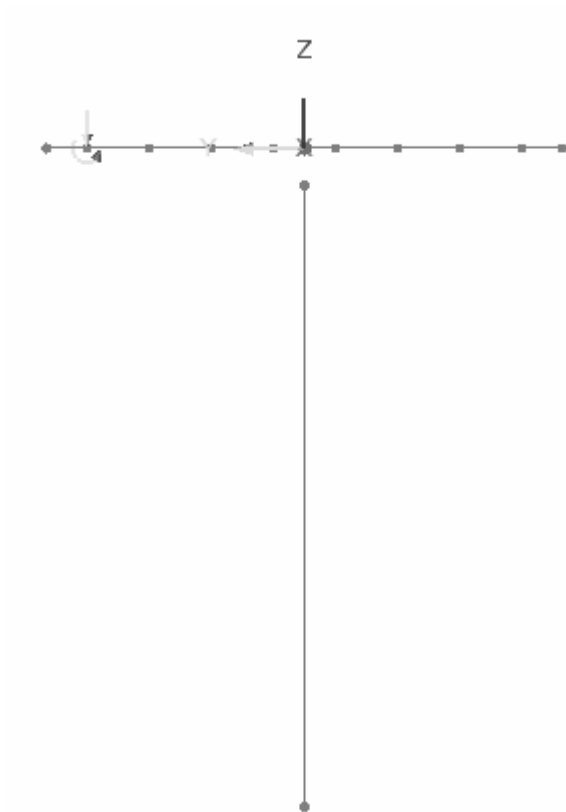
Structural loading : Global distributed

Load Z direction: -4 kN/m

Moment about X axis: -3 kN/m

Load case : EGEN 2

Loading assignment: Assign to lines (LB 1)



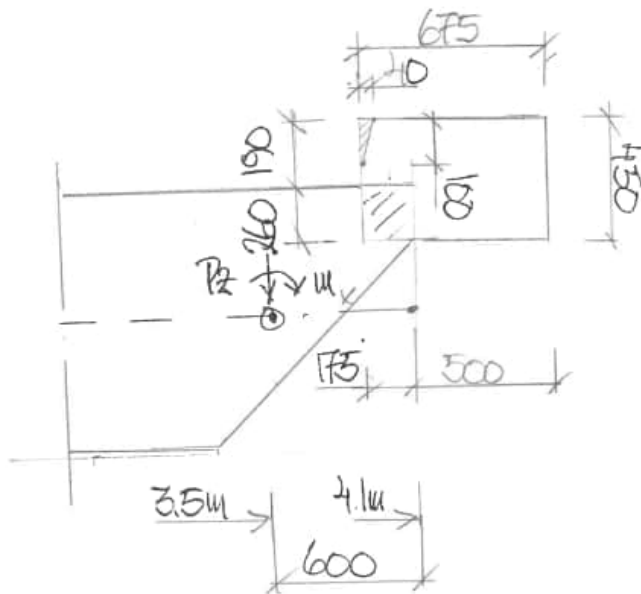
| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:5 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.1.3 Edge beam: right side

The load belonging to the edge beam including the railing is applied as a line load along the longitudinal beam (LB 8) nearest the right side. The effect of eccentric load placement is accounted for by applying an equivalent line moment.

$$\rightarrow p_z = p_{KB} = (0.675m \cdot 0.45m - 0.175m \cdot 0.26m - 0.02m \cdot 0.10m) \cdot 24 \frac{kN}{m^3} = -6 \frac{kN}{m} \left(-4 \frac{kN}{m}\right)$$

$$\rightarrow m_x = -p_z \cdot (0.6m + 0.25m) = 5 \frac{kNm}{m} \left(3 \frac{kNm}{m}\right)$$



| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:6 |
| | | Date : | Created : |

Load: EGEN.3

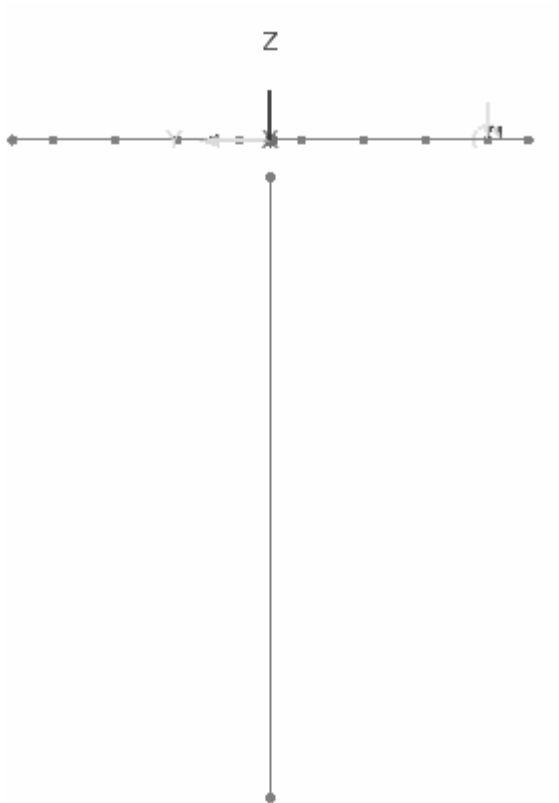
Structural loading : Global distributed

Load Z direction: -4 kN/m

Moment about X axis: +3 kN/m

Load case : EGEN 3

Loading assignment: Assign to lines (LB 8)



| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:7 |
| | | Date : | Created : |

3.1.4 Load combinations

Load combination basis EGEN-E:
(Static system "Analysis 1" → "Analysis 8")

| Load case | Factor |
|-----------|--------|
| EGEN 1-1 | 1.00 |
| EGEN 2-1 | 1.00 |
| EGEN 3-1 | 1.00 |
| EGEN 1-2 | 1.00 |
| EGEN 2-2 | 1.00 |
| EGEN 3-2 | 1.00 |
| EGEN 1-3 | 1.00 |
| EGEN 2-3 | 1.00 |
| EGEN 3-3 | 1.00 |
| EGEN 1-4 | 1.00 |
| EGEN 2-4 | 1.00 |
| EGEN 3-4 | 1.00 |
| EGEN 1-5 | 1.00 |
| EGEN 2-5 | 1.00 |
| EGEN 3-5 | 1.00 |
| EGEN 1-6 | 1.00 |
| EGEN 2-6 | 1.00 |
| EGEN 3-6 | 1.00 |
| EGEN 1-7 | 1.00 |
| EGEN 2-7 | 1.00 |
| EGEN 3-7 | 1.00 |
| EGEN 1-8 | 1.00 |
| EGEN 2-8 | 1.00 |
| EGEN 3-8 | 1.00 |

Basic load combination EGEN-C:
(Static system "Analysis 9")

| Load case | Factor |
|-----------|--------|
| EGEN 1 | 1.00 |
| EGEN 2 | 1.00 |
| EGEN 3 | 1.00 |

Basic load combination EGEN-:

| Load case | Factor |
|-----------|--------|
| EGEN-E | 0.51 |
| EGEN-C | 0.49 |

| | | | |
|--|---------------------------------------|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:8 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.2 SURFACING

Thickness pavement with a thickness of 90 mm is considered.

$$q_{belagg} = \gamma_{belagg} \cdot t = 22 \frac{kN}{m^3} \cdot 0.09m = 1.8kPa \rightarrow p_z = q_{belagg} \cdot b = 1.8kPa \cdot 1m = 1.8 \frac{kN}{m}$$

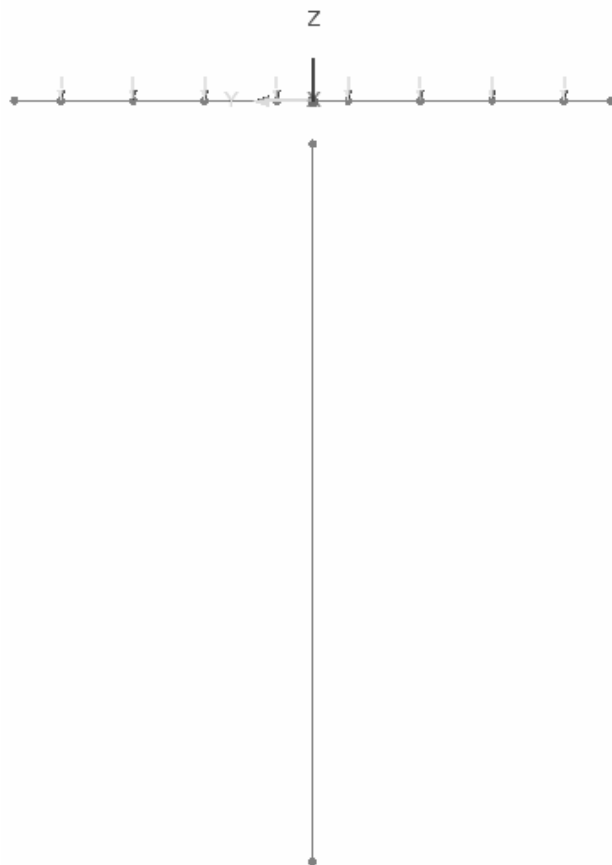
Load : SURFACE

Structural loading : Global distributed

Load Z direction: -1.8 kN/m

Load case : BELAGG

Loading assignment: Assign to lines



| | | | |
|--|---|----------|---------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:9 |
| | | Date : | Created : |

3.3 CREEP

Total creep is determined according to SS-EN 1992-1-1 §3.1.4 and TRVINFRA-00227 section 7.1.6.4 for RH 80% at time t_1 .

Time for first loading (= time when formwork was removed) is termed t_0 .

$$t_0 = 5 \text{ days}$$

$$t_2 = 120 \text{ years}$$

Bridge consists of parts with different thicknesses as seen below.

The bridge beam has different widths at top and bottom. When determining creep, the average value is applied.

$$b = \frac{6.8m + 8.2m}{2} = 7.5 \text{ m}$$

Bridge deck (t = 1.0 m; b = 7.5 m):

$$\phi(t_1 = 5 \text{ days}, t_0) = 0.40$$

$$\phi(t_2 = 120 \text{ år}, t_0) = 1.40$$

$$\varepsilon_{cc}(t_1, t_0) = \phi(t_1, t_0) \cdot \frac{\sigma_c}{E_c}$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:10 |
| | | Date : | Created : |

To study the effect concrete stiffness according to SS-EN 1992-1-1 5.8.7 creep values seen below are used.

| | |
|--------------------------------|--------|
| Load cases | ϕ |
| Permanent | 1.4 |
| Variable excluding temperature | 0 |
| Temperature | 0.3* |

* = According to Swedish work practice

$$E_{system} = \frac{E_{cm}}{1 + \phi}$$

Instead of adjusting E-modulus the load coefficients are adjusted.

$$f_{Shrinkage} = \frac{1}{1 + \phi_{ef}} = \frac{1}{1 + 1.4} = 0.42$$

$$f_{Temp} = \frac{1}{1 + \phi_{ef}} = \frac{1}{1 + 0.3} = 0.77$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:11 |
| | | Date : | Created : |

3.4 SHRINKAGE

Total shrinkage according to SS-EN 1992-1-1 §3.1.4 and TRVINFRA-00227 section 7.1.6.4 for RH 80% at time t_2 .

Determination of load effect from shrinkage should consider the reduced concrete stiffness from creep.

$$t_s = 0 \text{ days}$$

$$t_2 = 120 \text{ years}$$

The bridge beam has different widths at top and bottom. When determining the crystal, the average value is applied.

$$b = \frac{6.8m + 8.2m}{2} = 7.5 \text{ m}$$

Superstructure:

Shrinkage $\epsilon_{cs} = 0.023\%$ is applied to all construction parts for safety. The movement corresponds to that which occurs due to an imaginary temperature load $\therefore T = -23^\circ\text{C}$.

Remark

The existing static model causes negligible restraint forces to be considered as arising from shrinkage. This means that the load case is not introduced in the static model, but it is considered when determining long-term losses in prestressing reinforcement in the serviceability limit state.

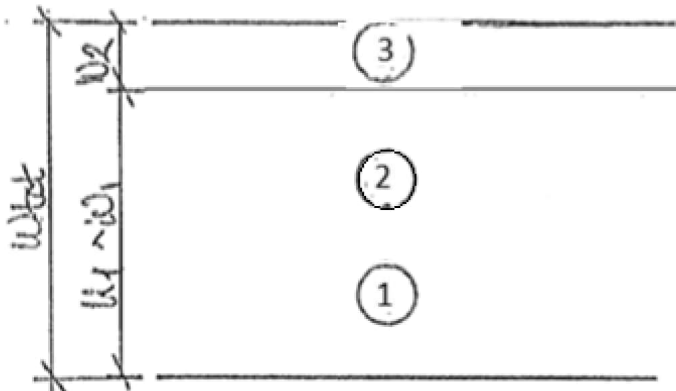
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:12 |
| | | Date : | Created : |

3.5 TRAFFIC

Evaluation of vertical traffic is performed for LM 1 and LM 2 according to SS-EN 1991-2 section 4.3.

Evaluation will also be performed EG A/B = 180kN/300 kN according to TRVFS 2011:12 chapter 6 point 3§.

3.5.1 Indelning av körbana i lastfält



Total traffic width : $w_{tot} = 8.0\text{ m}$

Number of traffic lanes : $n_1 = \text{Integer} \left[\frac{w_{tot}}{3.0\text{m}} \right] = 2\text{ lanes}$

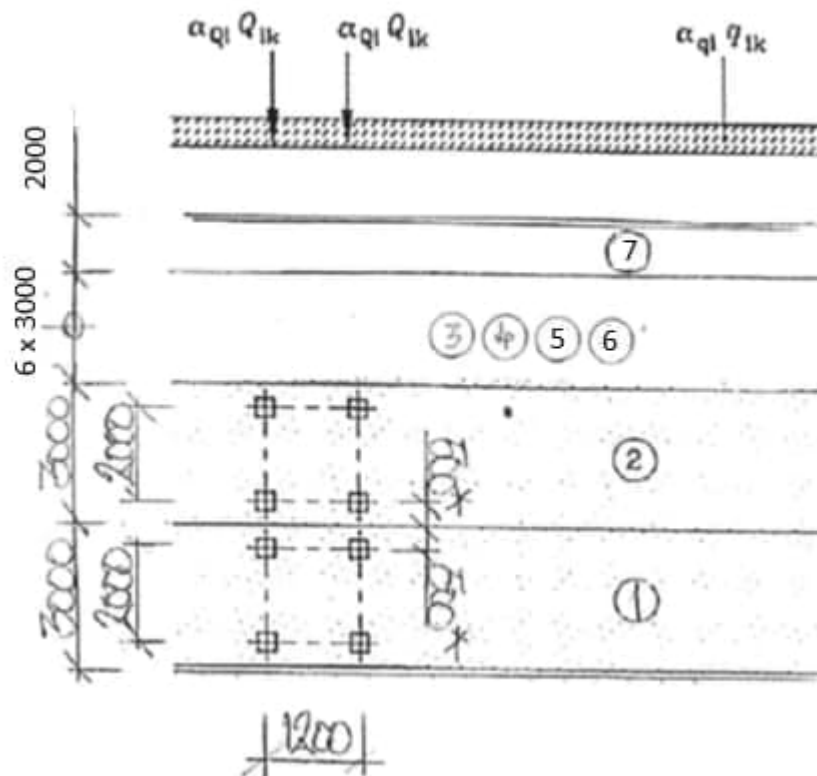
Full traffic width : $w_1 = 3.0\text{m}$

Remaining width : $w_2 = 2.0\text{m}$

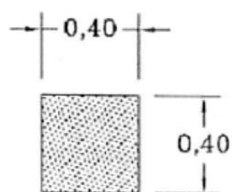
| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:13 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.5.2 Load model 1 (LM 1)

Characteristic values according to SS-EN 1991-2 §4.3.2.



* = When studying local effects 250 mm is to be assumed.



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:14 |
| | | Date : | Created : |

Axle loads:

α_Q : national adaptation factor according to TRVFS 2011:12 table 7.1

$Q'_k = \alpha_Q \cdot Q_k$: characteristic value including national adaptation factor

| Traffic lane | Q_k | α_Q | Q'_k | Remark |
|--------------|-------|------------|--------|-----------------|
| 1 | 300 | 0,9 | 270 | LM1- 2 x 270 kN |
| 2 | 200 | 0,9 | 180 | LM1- 2 x 180 kN |
| 3 | 100 | 0 | 0 | No load |
| - | kN | - | kN | - |

Surface loads:

α_q : national adaptation factor according to TRVFS 2011:12 table 7.1

$q'_k = \alpha_q \cdot q_k$: characteristic value including national adaptation factor

| Traffic lane | q_k | α_q | q'_k |
|--------------|-------|------------|--------|
| 1 | 9.0 | 0.8 | 7.2 |
| 2-3 | 2.5 | 1.0 | 2.5 |
| - | kPa | - | kPa |

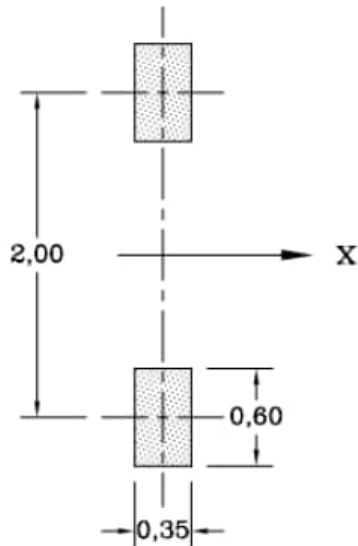
Remark

Evaluation is performed using Vehicle Load Optimisation (VLO), see section 3.7.4.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:15 |
| | | Date : | Created : |

3.5.3 Load model 2 (LM 2)

Characteristic vertical load according to SS-EN 1991-2 §4.3.3.



$\beta_Q = \alpha_Q = 0.90$: national adaptation factor

$Q_k = 400 \text{ kN}$: characteristic value

$Q'_k = \beta_k \cdot Q_k = 360 \text{ kN}$: characteristic value including national adaptation factor

Tire pressure

TSFS Chapter 11 Section 4 states that the same contact surface as LM 1 may be used.

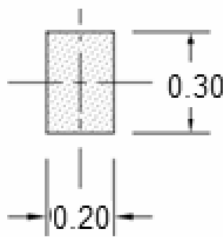
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:16 |
| | | Date : | Created : |

3.5.4 Load model EG A/B

Calculation is performed using traffic load EG A/B = 180 kN/300 kN excluding dynamic factor.

Traffic load EG A/B are applied to two traffic lanes. Traffic on first lane is multiplied by 1.00 while second lane is multiplied 0.80.

The center distance between the wheel pressures is 2.0 meters according to TSFS chapter 11 §2.



Wheel pressure

$\epsilon_{dyn} = 25 \%$: dynamic factor ^{1.)}

$A' = A \cdot (1 + \epsilon_{dyn}) = 180 \text{ kN} \cdot (1 + 0.25) = 225 \text{ kN}$: single load including dynamic factor

$B' = B \cdot (1 + \epsilon_{dyn}) = 300 \text{ kN} \cdot (1 + 0.25) = 375 \text{ kN}$: tandem load including dynamic factor

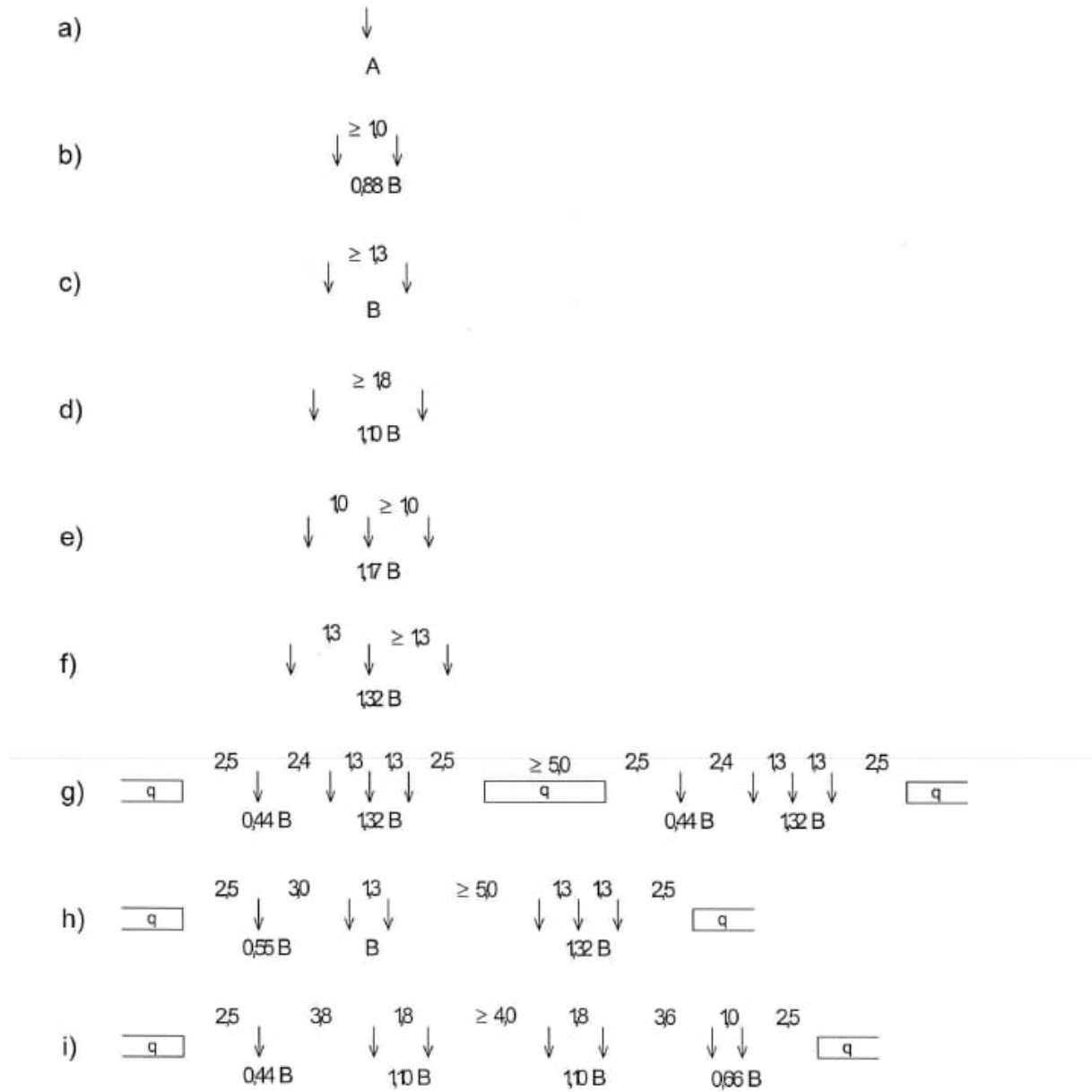
$p = 5 \frac{\text{kN}}{\text{m}}$: surface load

Footnote:

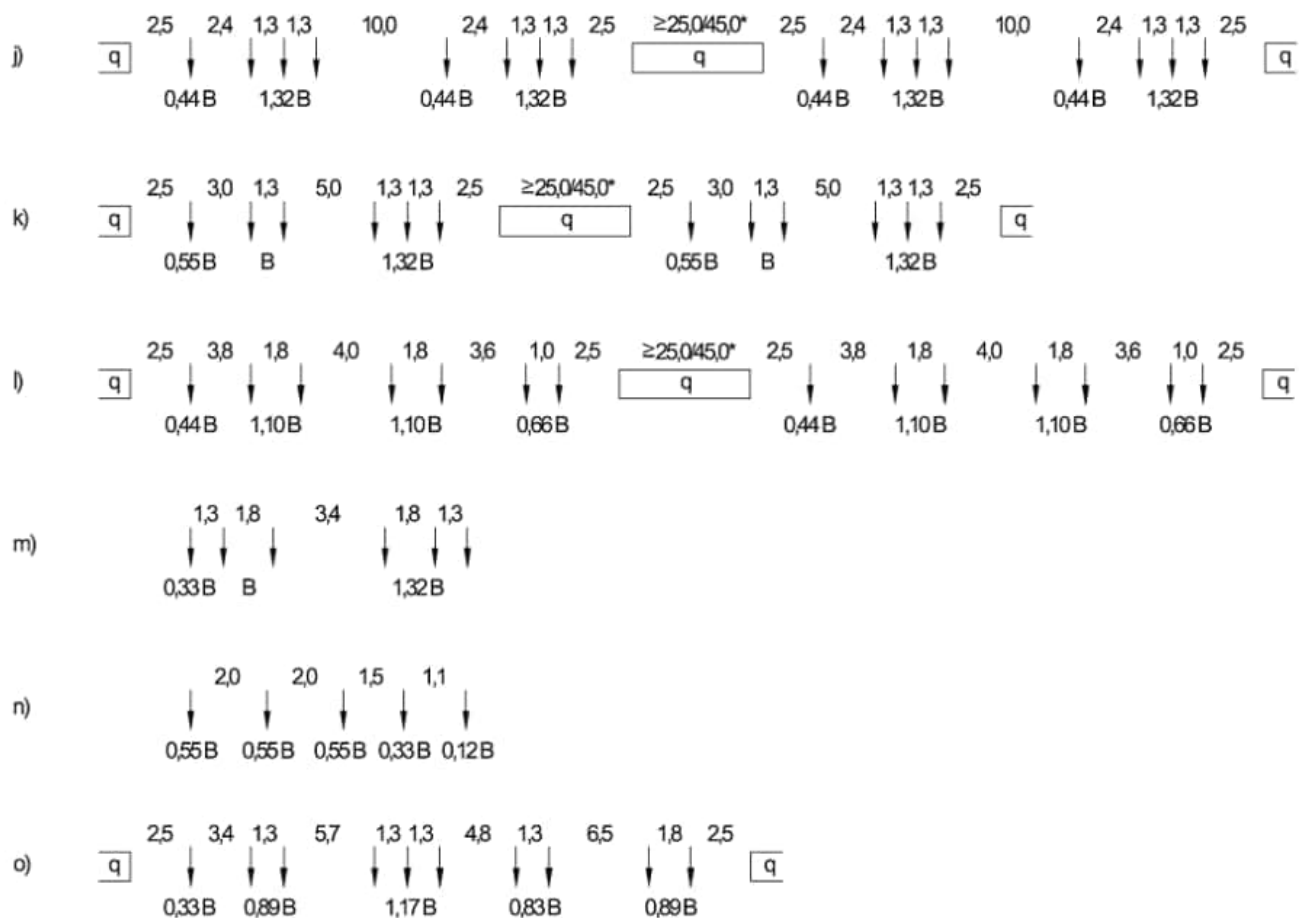
^{1.)} TRVINFRA-00227 table 7.1-5 section 4.2.1(1) states apply 25 % ..

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:17 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Graphic presentation of common vehicle types:
(Vehicle types according to TRVINFRA-00331 Appendix 1)



| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:18 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



Note:

Evaluation is carried out with the script Vehicle Load Optimization (VLO), see sections 3.5.3 and 3.5.4.

Since there is no motorway, * = 45 m is applied according to TRVINFRA-00331 section 8.3.2.2.1 for vehicle types j, k, and l.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:19 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.5.5 Vehicle Load Optimization (VLO)

3.5.5.1 Influence components

Influence surfaces are created using *Direct Method Influence Envelope*. This is done by applying *Influence components* seen below.

Inf1 – Reactions :

The screenshot shows the 'Direct Method Influence Envelope' dialog box. The 'Entity' is set to 'Reaction' and the 'Direction' is 'Nodal' with a value of '0.0'. A list of influence components is shown on the right, with 'Standard' checked and 'FZ' selected. The 'Include coincident effects' checkbox is checked. The 'Name' field contains 'Inf1 - Reaction' and a count of '(1)' is shown next to it.

Inf2 – Beam (Fz):

The screenshot shows the 'Direct Method Influence Envelope' dialog box. The 'Entity' is set to 'Force/Moment - Thick 3D Beam' and the 'Direction' is 'Element local' with a value of '0.0'. A list of influence components is shown on the right, with 'Standard' checked and 'Fz' selected. The 'Include coincident effects' checkbox is checked. The 'Name' field contains 'Inf2 - Beam (Fz)' and a count of '(2)' is shown next to it.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:20 |
| | | Date : | Created : |

Inf3 – Beam (My):

Direct Method Influence Envelope ✕

Entity: Force/Moment - Thick 3D Beam

Direction: Element local 0.0

Standard

- Fx
- Fy
- Fz
- Mx
- My
- Mz

Include coincident effects

Name: Inf3 - Beam (My) (3)

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:21 |
| | | Date : | Created : |

Influence surfaces :

Search area: Superstructure

Definition type: Grid

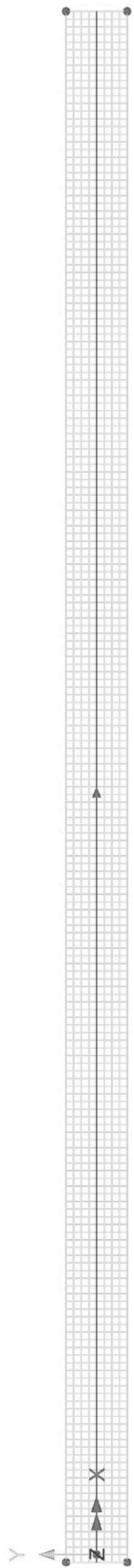
Path: Centerline

Transverse width: 8.0 m

Longitudinal spacing: 0.5 m

Transversal spacing: 0.5 m

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:22 |
| | | Date : | Created : |



PLAN

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:23 |
| | | Date : | Created : |

Vehicle load optimisation options:

Loading options

Country: Sweden Optional code settings...

Design code: EN1991-2 Sweden 2011 Optional loading parameters...

Solution process

View onerous effects table Set influence surfaces...

Create loading patterns Define carriageways...

All chosen influences
 Most onerous

Create envelopes

By design case
 By influence and design case

Vehicle longitudinal incremental movement: 0.50 m

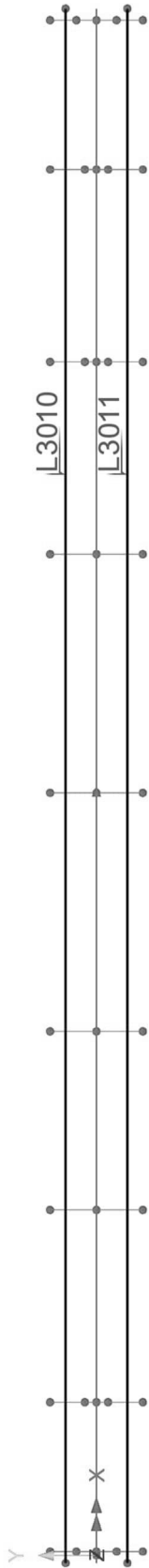
Vehicle transverse incremental movement: 0.50 m

Vehicle direction: both

Definition of carriageway (kerbs): L3010 & L3011

Influence surfaces: Include all (positive & negative)

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:24 |
| | | Date : | Created : |



PLAN

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:25 |
| | | Date : | Created : |

3.5.5.2 Envelope : LM 1

Load model 1 (LM1) defined in SS-EN 1991-2 section 4.3.2.

The screenshot shows the 'EN1991-2 Sweden 2011' configuration window. It is divided into two main sections: 'Representative values required' and 'Load groups to include'.
 In the 'Representative values required' section, the 'Characteristic' option is selected with a checked checkbox. Other options like 'Combination (psi0)', 'Frequent (psi1)', 'Infrequent (psi1,infq)', and 'Quasi-permanent (psi2)' are unselected.
 In the 'Load groups to include' section, 'Group 1a - LM1' is selected with a checked checkbox. Other groups (1b, 4, 5) and the 'Complementary load model' are unselected. The 'Dynamic amplification (additional)' is set to 20%. The 'Vehicle(s)' field is set to 'None'. The 'Include associated LM1' checkbox is unselected. The 'Output for each load group' checkbox is also unselected.

3.5.5.3 Envelope : LM 2

Load model 2 (LM2) defined in SS-EN 1991-2 section 4.3.3.

The screenshot shows the 'EN1991-2 Sweden 2011' configuration window for LM2. It is divided into two main sections: 'Representative values required' and 'Load groups to include'.
 In the 'Representative values required' section, the 'Characteristic' option is selected with a checked checkbox. Other options are unselected.
 In the 'Load groups to include' section, 'Group 1b - LM2' is selected with a checked checkbox. Other groups (1a, 4, 5) and the 'Complementary load model' are unselected. The 'Dynamic amplification (additional)' is set to 20%. The 'Vehicle(s)' field is set to 'None'. The 'Include associated LM1' checkbox is unselected. The 'Output for each load group' checkbox is also unselected.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:26 |
| | | Date : | Created : |

3.7.5.4 Envelope : EG A

EG A is defined as complementary load model with options seen below.

Representative values required

- Characteristic
- Combination (psi0)
- Frequent (psi1)
- Infrequent (psi1, infq)
- Quasi-permanent (psi2)

Load groups to include

- Group 1a - LM1
- Group 4 - LM4
- Complementary load model
- Dynamic amplification (additional) %
- Vehicle(s) ...
- Group 5 - LM3
- Vehicle(s) ...
- Include associated LM1

Dynamic amplification (additional): 25 %

Vehicle selection: Type a

3.5.5.5 Envelope : EG B

EG B is defined as complementary load model with options seen below.

Representative values required

- Characteristic
- Combination (psi0)
- Frequent (psi1)
- Infrequent (psi1, infq)
- Quasi-permanent (psi2)

Load groups to include

- Group 1a - LM1
- Group 4 - LM4
- Complementary load model
- Dynamic amplification (additional) %
- Vehicle(s) ...
- Group 5 - LM3
- Vehicle(s) ...
- Include associated LM1

Dynamic amplification (additional): 25 %

Vehicle selection: Type b → o

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:27 |
| | | Date : | Created : |

3.5.5.6 Combined traffic load (TRAFIK)

There are a total 4 different traffic loads termed LM 1, LM2, EG A and EG B.

The envelope is used to identify the most onerous load effect.

Envelope TRAFIK :

| |
|----------|
| Envelope |
| LM 1 |
| LM 2 |
| EG A |
| EG B |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:29 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

The load definition:

The load UTM3 is defined as a special vehicle in "load group 5".

Representative values required

Characteristic

Combination (psi0)

Frequent (psi1)

Infrequent (psi1,infq)

Quasi-permanent (psi2)

Load groups to include

Group 1a - LM1

Group 4 - LM4

Complementary load model

Dynamic amplification (additional) %

Vehicle(s) ...

Group 5

Vehicle(s) ...

Include associated LM1

Point ✕

Analysis category

Arbitrary

Grid x
y

Untransformed load direction

X Y

Z Surface normal

XYZ global

XYZ transformable

Projection vector

Project in load direction

X component

Y component

Z component

| | X | Y | Z | Load |
|---|------|-------|----|------|
| 1 | -4.2 | 1.00 | 10 | -60 |
| 2 | -4.2 | -1.00 | 10 | -60 |
| 3 | -3.0 | 1.00 | 10 | -60 |
| 4 | -3.0 | -1.00 | 10 | -60 |
| 5 | 3.0 | 1.00 | 10 | -60 |
| 6 | 3.0 | -1.00 | 10 | -60 |
| 7 | 4.2 | 1.00 | 10 | -60 |
| 8 | 4.2 | -1.00 | 10 | -60 |

Name ▼ ▲ (new)

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:30 |
| | | Date : | Created : |

3.6 BRAKING LAOD

Load acts at level of surfacing.

Braking load is defined by SS-EN 1991-2 §4.4.1.

Load acts at level of surfacing.

$$L = 19.1 \text{ m} + 25.0 \text{ m} + 23.2 \text{ m} + 31.0 \text{ m} + 31.0 \text{ m} + 25.0 \text{ m} + 25.0 \text{ m} + 19.1 \text{ m} = 198.4 \text{ m}$$

Load modell LM 1 :

$$Q_{lk} = 0.6\alpha_{Q1} \cdot (2Q_{ik}) + 0.1\alpha_{q1} \cdot q_{1k} \cdot w_1 \cdot L$$

$$180 \text{ kN} \cdot \alpha_{Q1} \leq Q_{lk} \leq 900 \text{ kN}$$

$$Q_{broms} = 0.6 \cdot (2 \cdot 270 \text{ kN}) + 0.1 \cdot 7.2 \text{ kPa} \cdot 3.0 \text{ m} \cdot 198.4 \text{ m} = 324 \text{ kN} + 429 \text{ kN} = 753 \text{ kN}$$

Load model EG B = 300 kN (see TSFS chapter 11 §2):

Vehicle j.) is the heaviest with $\sum Q_{EG B} = 7.04B$.

$$Q_{lk} = 0.35 \cdot \sum Q_{EG B} + 0.1 \cdot p \cdot L_q$$

$$Q_{lk} \leq 500 \text{ kN}$$

$$Q_{broms} = 0.35 \cdot 7.04 \cdot 300 \text{ kN} + 0.1 \cdot 5 \frac{\text{kN}}{\text{m}} \cdot (198.4 \text{ m} - 50.0 \text{ m}) = 739 \text{ kN} + 74 \text{ kN} = 813 \text{ kN}$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:31 |
| | | Date : | Created : |

Load definition in static model:

The load case is distributed from support 4-6 along longitudinal beams (LB 3 → LB 6).

Distance from support 4 to support 6 is $L = 62 \text{ m}$.

$$p_x = \frac{1}{4} \cdot \frac{Q_{broms}}{L} = \frac{813 \text{ kN}}{4 \cdot 62.0 \text{ m}} = 3.3 \frac{\text{kN}}{\text{m}}$$

$$m_y = p_x \cdot (0.50 \text{ m} + t_{bel}) = 3.3 \frac{\text{kN}}{\text{m}} \cdot (0.5 \text{ m} + 0.09 \text{ m}) = 1.9 \frac{\text{kN}}{\text{m}}$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:32 |
| | | Date : | Created : |

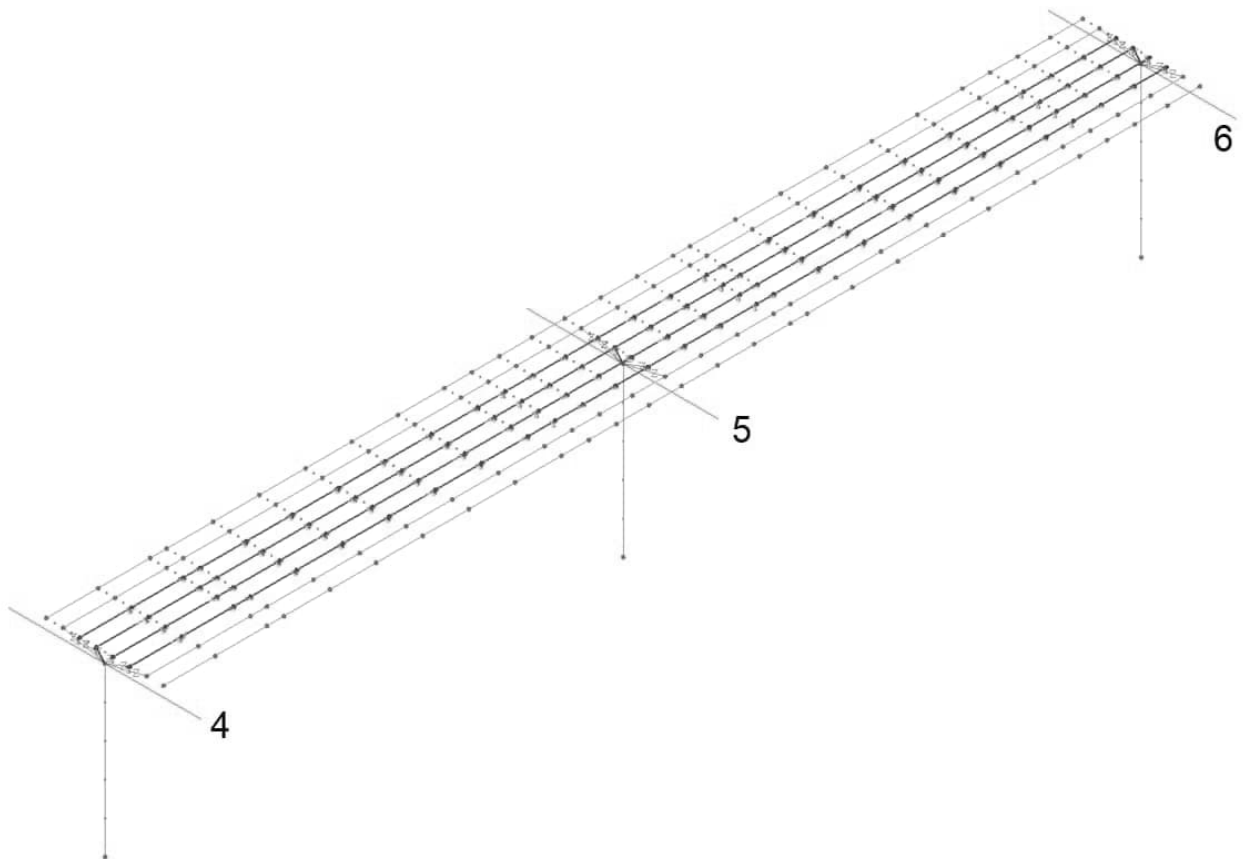
Load case : BROMS+

Structural loading : Global distributed

Load X direction: +3.3 kN/m

Moment about Y axis: +1.9 kNm/m

Loading assignment: Assign to lines



| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:33 |
| | | Date : | Created : |

3.7 TEMPERATURE

The effect of temperature shall be considered in the serviceability limit state according to SS-EN 1992-1-1 §2.3.1.2.

Location: Bollnäs → $T_0 (-) = -22^{\circ}\text{C}$

Maximum temperature: $T_+ = +25^{\circ}\text{C}$

Minimum temperature: $T_- = T_0 (-) = -38^{\circ}\text{C}$

Inspection shows that the effect of uneven temperature change does not need to be considered.

The static system causes only movement due to uniform temperature change in the longitudinal direction.

No restraint forces are considered to occur, thus load case is ignored in static model.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:34 |
| | | Date : | Created : |

3.8 PRESTRESS

Analysis of pre tensioned cable is studied at times : t_0 (5 days), t_1 (30 days) and t_2 (120 years).

Initial prestress loss at time t_0 is only due to friction.

Determination of time loses (η_t) is made in separate program. Preliminary analysis will use losses seen below.

| Time | η_t | Load combination | Load case |
|-------|----------|------------------|--------------|
| t_0 | 0 % | PT-T0 | 1.00 x PT-T0 |
| t_1 | 6 % | PT-T1 | 0.95 x PT-T0 |
| t_2 | 16 % | PT-T2 | 0.85 x PT-T0 |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:35 |
| | | Date : | Created : |

3.8.1 General

Vid bestämning av uppspanningsförluster tillämpas $\mu = 0.25$ och $k = 0.0030$.
Materialegenskaper enligt nedan tillämpas vid bärighetsberäkning.

Material VSL 12 ϕ 13:

$$f_{p0.2k} = 1600MPa \quad : \text{ stress at elongation } 0.2 \%$$

$$f_{pk} = 1800MPa \quad : \text{ ultimate stress}$$

$$E_{sk} = 200GPa \quad : \text{ E-modulus}$$

$$A_p = 12 \cdot 93mm^2 = 1110mm^2 \quad : \text{ cabel area}$$

$$F_u = 1110mm^2 \cdot 1800MPa = 2000kN \quad : \text{ ultimate load}$$

Slip during locking:

4 mm

Permissible stress before locking :

See SS-EN 1992-1-1 section 5.10.2.1

$$\sigma_{p,max}^{före} = 1260MPa \rightarrow P_{före} = 1260MPa \cdot 1110mm^2 = 1399kN$$

Permissible stress after locking :

See SS-EN 1992-1-1 section 5.10.3

$$\sigma_{p,max}^{efter} = 1170MPa \rightarrow P_{efter} = 1170MPa \cdot 1110mm^2 = 1299kN$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:36 |
| | | Date : | Created : |

Prestress force and slip are applied at active anchors according to the presentation below.

Tendon



Analysis category

Property
1:VSL 12-13

| | Value |
|-----------------|-------|
| Prestress force | 1399 |

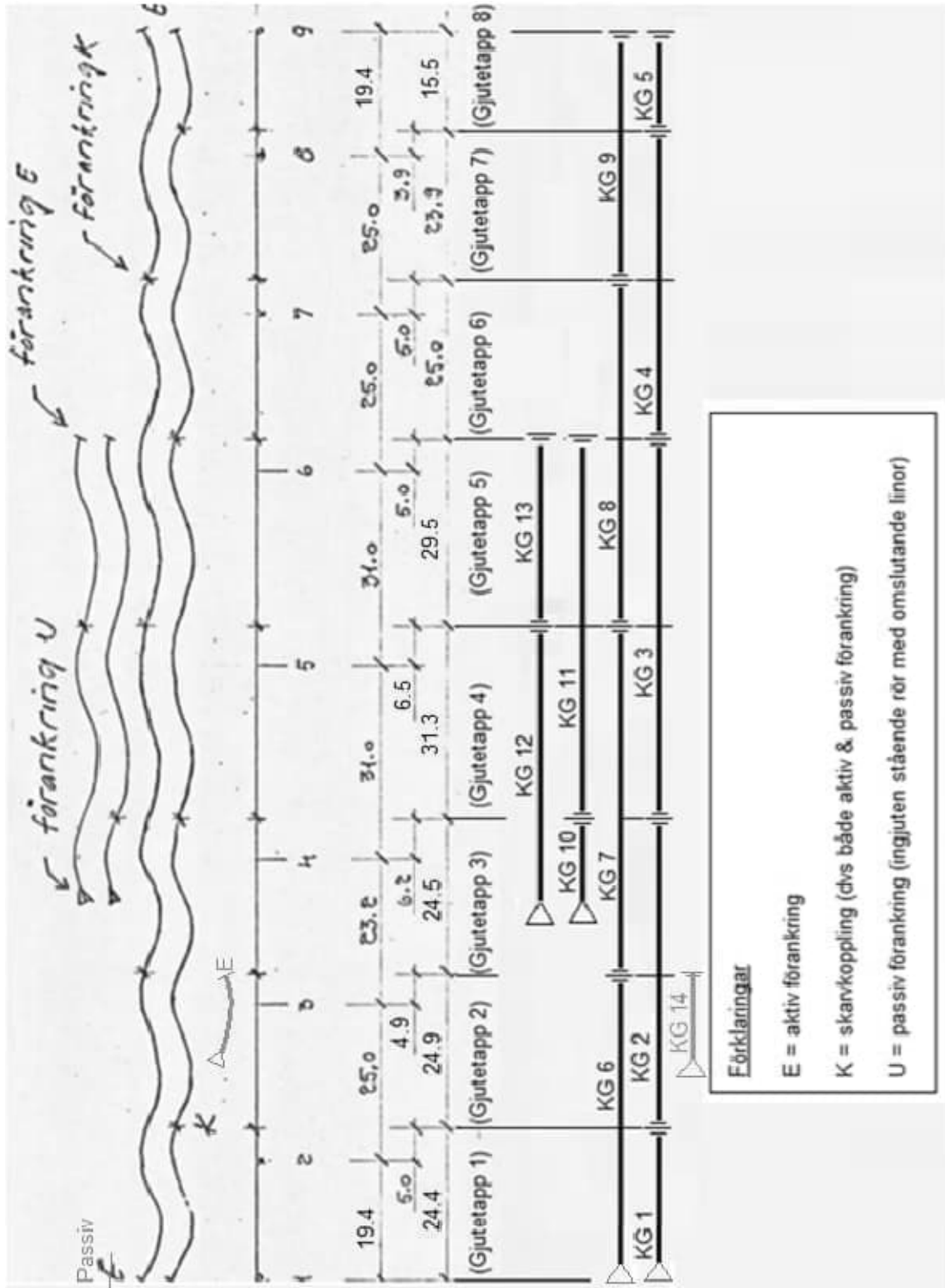
Jacking

| | Value |
|-------|-------|
| Angle | 0.0 |
| Slip | 0.004 |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:37 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.8.2 Cabel position: theoretical

Overview of cable routing for all cast stages according to the figure below.



ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:38 |
| | | Date : | Created : |

Cabel positions:

| Nr. | KG1 | KG2 | | KG3 | | KG4 | | KG5 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 112 | 212 | 312 | 412 | 512 | 612 | 712 | 812 |
| 2 | 132 | 232 | 332 | 432 | 532 | 632 | 732 | 832 |
| 3 | 141 | 241 | 341 | 441 | 541 | 641 | 741 | 841 |
| 4 | 151 | 251 | 351 | 451 | 551 | 651 | 751 | 851 |
| 5 | 162 | 262 | 362 | 462 | 562 | 662 | 762 | 862 |
| 6 | 171 | 271 | 371 | 471 | 571 | 671 | 771 | 871 |
| 7 | 181 | 281 | 381 | 481 | 581 | 681 | 781 | 881 |
| 8 | 182 | 282 | 382 | 482 | 582 | 682 | 782 | 882 |

| Nr. | KG 6 | | KG 7 | | KG 8 | | KG 9 | |
|-----|------|-----|------|-----|------|-----|------|-----|
| 9 | 111 | 211 | 311 | 411 | 511 | 611 | 711 | 811 |
| 10 | 121 | 221 | 321 | 421 | 521 | 621 | 721 | 821 |
| 11 | 122 | 222 | 322 | 422 | 522 | 622 | 722 | 822 |
| 12 | 131 | 231 | 331 | 431 | 531 | 631 | 731 | 831 |
| 13 | 142 | 242 | 342 | 442 | 542 | 642 | 742 | 842 |
| 14 | 152 | 252 | 352 | 452 | 552 | 652 | 752 | 852 |
| 15 | 161 | 261 | 361 | 461 | 561 | 661 | 761 | 861 |
| 16 | 172 | 272 | 372 | 472 | 572 | 672 | 772 | 872 |

| Nr. | KG 10 | KG 11 | |
|-----|-------|-------|-----|
| 17 | 313 | 413 | 513 |
| 18 | 333 | 433 | 533 |
| 19 | 353 | 453 | 553 |
| 20 | 363 | 463 | 563 |
| 21 | 383 | 483 | 583 |

| Nr. | KG 12 | | KG 13 | | KG 14 |
|-----|-------|-----|-------|-----|-------|
| 22 | 323 | 423 | 523 | 623 | 223 |
| 23 | 334 | 434 | 534 | 634 | 253 |
| 24 | 343 | 443 | 543 | 643 | 273 |
| 25 | 364 | 464 | 564 | 664 | - |
| 26 | 373 | 473 | 573 | 673 | - |

Explanations:

y(+) : distance from center of individual cable to bottom of beam

y_{med} (+) : distance from center of average location of cabel group to bottom of beam

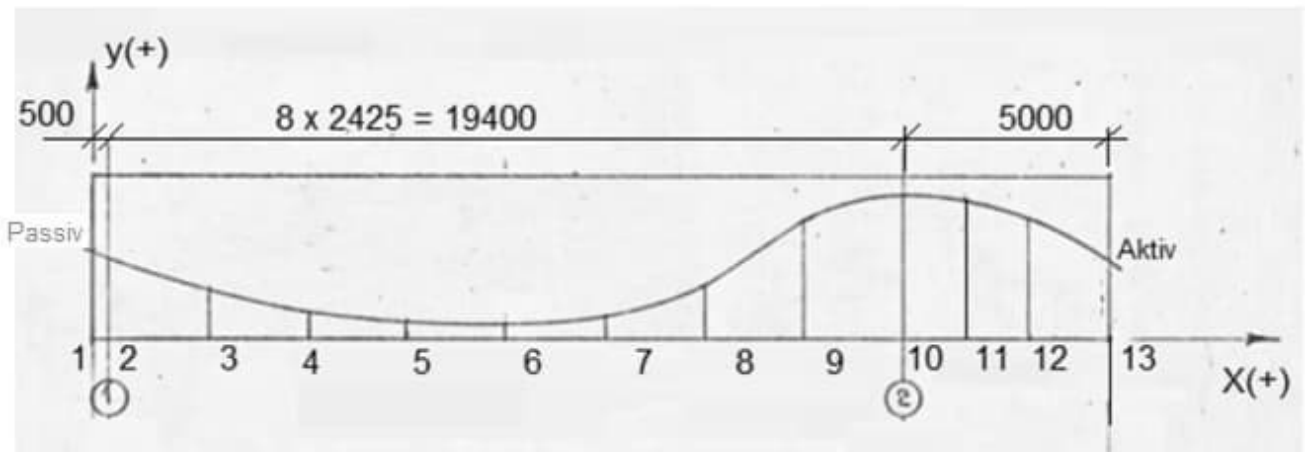
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:39 |
| | | Date : | Created : |

Casting stage 1: KG 1 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 112 | | K 132 | | K 141 | | y _{med} (+) |
|------|--------|-------|----|--------|--------|-------|-------|-------|-------|-------|--|----------------------|
| | | | | | | K 182 | K 162 | K 151 | K 171 | K 181 | | |
| - | 0,500 | - | 1 | 0,200 | 0 | 810 | 660 | 360 | 210 | 529 | | |
| 1:V | | - | 2 | 0,500 | 0,300 | 761 | 633 | 363 | 235 | 514 | | |
| 1:H | 19,400 | 2,425 | 2 | 0,500 | 0 | 761 | 633 | 363 | 235 | 514 | | |
| - | | - | - | 1,712 | 1,212 | 565 | 525 | 375 | 335 | 455 | | |
| - | | 2,425 | 3 | 2,925 | 2,425 | 435 | 435 | 365 | 365 | 400 | | |
| - | | 2,425 | 4 | 5,350 | 4,850 | 300 | 300 | 300 | 300 | 300 | | |
| - | | 2,425 | 5 | 7,775 | 7,275 | 220 | 220 | 220 | 220 | 220 | | |
| - | | 2,425 | 6 | 10,200 | 9,700 | 200 | 200 | 0 | 200 | 200 | | |
| - | | 2,425 | 7 | 12,625 | 12,125 | 270 | 270 | 270 | 270 | 270 | | |
| - | | 2,425 | 8 | 15,050 | 14,550 | 400 | 400 | 400 | 400 | 400 | | |
| - | | 2,425 | 9 | 17,475 | 16,975 | 660 | 660 | 660 | 660 | 660 | | |
| 2:V | | 2,425 | 10 | 19,900 | 19,400 | 890 | 890 | 890 | 890 | 890 | | |
| 2:H | 5,000 | - | 10 | 19,900 | 0 | 890 | 890 | 890 | 890 | 890 | | |
| - | | 1,562 | 11 | 21,462 | 1,562 | 840 | 840 | 740 | 740 | 790 | | |
| - | | 1,563 | 12 | 23,025 | 3,125 | 750 | 750 | 550 | 550 | 650 | | |
| - | | 1,875 | 13 | 24,900 | 5,000 | 630 | 630 | 330 | 330 | 480 | | |
| - | m | m | - | m | m | mm | mm | mm | mm | mm | | |

Manual verification:

$$y_{med}(+) = \frac{761mm \cdot 2 + 633mm \cdot 2 + 363mm \cdot 3 + 235mm \cdot 1}{8} = 514mm$$



ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:40 |
| | | Date : | Created : |

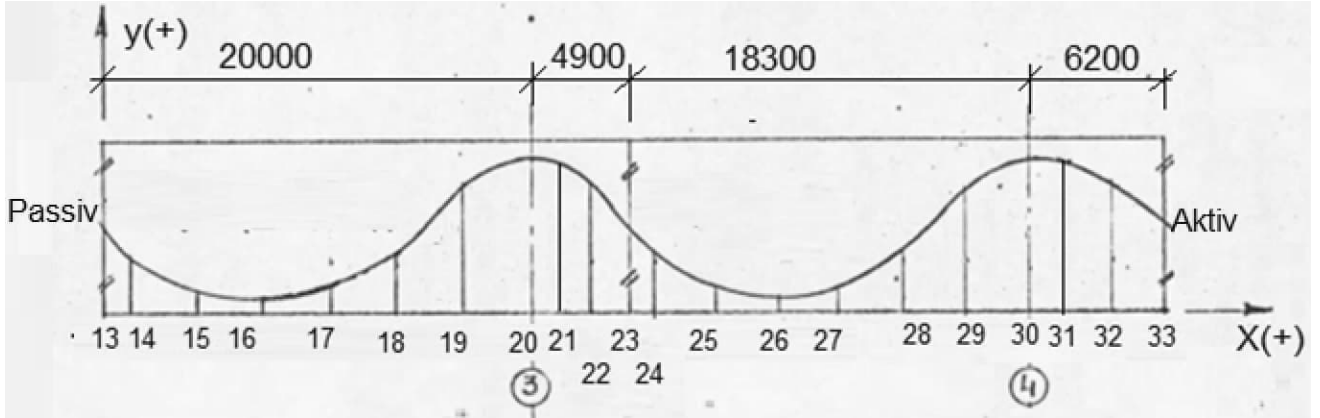
Casting stage → 3: KG 2 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 212/312 | y(+) | K 241/341 | y(+) | K 281/381 | y _{med} (+) |
|------|--------|-------|----|--------|--------|-----------|------|-----------|------|-----------|----------------------|
| | | | | | | K 232/332 | | K 251/351 | | K 262/362 | |
| - | 20,000 | - | 13 | 24,900 | 0 | 630 | 330 | 330 | 330 | 480 | |
| - | | 1,250 | 14 | 26,150 | 1,250 | 505 | 235 | 235 | 370 | | |
| - | | 3,125 | 15 | 29,275 | 4,375 | 170 | 170 | 170 | 170 | | |
| - | | 3,125 | 16 | 32,400 | 7,500 | 90 | 90 | 90 | 90 | | |
| - | | 3,125 | 17 | 35,525 | 10,625 | 170 | 170 | 170 | 170 | | |
| - | | 3,125 | 18 | 38,650 | 13,750 | 380 | 380 | 380 | 380 | | |
| - | | 3,125 | 19 | 41,775 | 16,875 | 650 | 650 | 650 | 650 | | |
| 3:V | | 3,125 | 20 | 44,900 | 20,000 | 860 | 840 | 840 | 850 | | |
| 3:H | 4,900 | - | 20 | 44,900 | 0 | 860 | 840 | 840 | 850 | | |
| - | | 1,450 | 21 | 46,350 | 1,450 | 810 | 650 | 650 | 730 | | |
| - | | 1,450 | 22 | 47,800 | 2,900 | 750 | 450 | 450 | 600 | | |
| - | | 2,000 | 23 | 49,800 | 4,900 | 570 | 270 | 270 | 420 | | |
| - | 18,300 | - | 23 | 49,800 | 0 | 570 | 270 | 270 | 420 | | |
| - | | 0,900 | 24 | 50,700 | 0,900 | 440 | 240 | 240 | 340 | | |
| - | | 2,900 | 25 | 53,600 | 3,800 | 210 | 190 | 190 | 200 | | |
| - | | 2,900 | 26 | 56,500 | 6,700 | 150 | 150 | 150 | 150 | | |
| - | | 2,900 | 27 | 59,400 | 9,600 | 250 | 250 | 250 | 250 | | |
| - | | 2,900 | 28 | 62,300 | 12,500 | 500 | 500 | 500 | 500 | | |
| - | | 2,900 | 29 | 65,200 | 15,400 | 770 | 770 | 770 | 770 | | |
| 4:V | | 2,900 | 30 | 68,100 | 18,300 | 910 | 910 | 910 | 910 | | |
| 4:H | 6,200 | - | 30 | 68,100 | 0 | 910 | 910 | 910 | 910 | | |
| - | | 1,937 | 31 | 70,037 | 1,937 | 850 | 850 | 850 | 850 | | |
| - | | 1,938 | 32 | 71,975 | 3,875 | 740 | 740 | 685 | 733 | | |
| - | | 2,325 | 33 | 74,300 | 6,200 | 600 | 600 | 475 | 584 | | |
| - | m | m | - | m | m | mm | mm | mm | mm | | |

Manual verification:

$$y_{med}(+) = \frac{600mm \cdot 4 + 600mm \cdot 3 + 475mm \cdot 1}{8} = 584mm$$

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:41 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



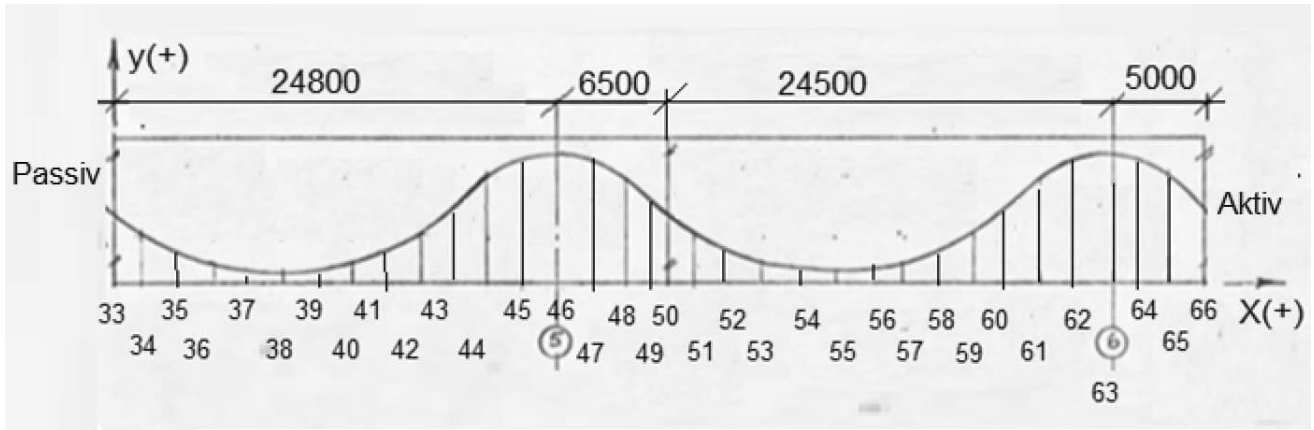
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:42 |
| | | Date : | Created : |

Casting stage 4 → 5: KG 3 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 441/541 | y(+) | y(+) | y(+) | y _{med} (+) |
|------|--------|-------|----|---------|--------|-----------|------|------|------|----------------------|
| | | | | | | K 432/532 | | | | |
| - | 24,800 | - | 33 | 74,300 | 0 | 600 | 600 | 475 | 584 | |
| - | | 1,550 | 34 | 75,850 | 1,550 | 520 | 450 | 380 | 485 | |
| - | | 1,938 | 35 | 77,788 | 3,488 | 420 | 260 | 300 | 365 | |
| - | | 1,938 | 36 | 79,725 | 5,425 | 325 | 250 | 130 | 282 | |
| - | | 1,938 | 37 | 81,663 | 7,363 | 245 | 110 | 220 | 208 | |
| - | | 1,938 | 38 | 83,600 | 9,300 | 185 | 80 | 185 | 159 | |
| - | | 1,938 | 39 | 85,538 | 11,238 | 185 | 80 | 185 | 159 | |
| - | | 1,938 | 40 | 87,475 | 13,175 | 210 | 150 | 210 | 195 | |
| - | | 1,938 | 41 | 89,413 | 15,113 | 290 | 285 | 290 | 289 | |
| - | | 1,938 | 42 | 91,350 | 17,050 | 430 | 430 | 430 | 430 | |
| - | | 1,938 | 43 | 93,288 | 18,988 | 550 | 550 | 550 | 550 | |
| - | | 1,938 | 44 | 95,225 | 20,925 | 670 | 670 | 670 | 670 | |
| - | | 1,938 | 45 | 97,163 | 22,863 | 810 | 810 | 810 | 810 | |
| 5:V | | 1,938 | 46 | 99,100 | 24,800 | 900 | 900 | 900 | 900 | |
| 5:H | | 6,500 | - | 46 | 99,100 | 0 | 900 | 900 | 900 | 900 |
| - | 1,937 | | 47 | 101,037 | 1,937 | 820 | 820 | 820 | 820 | |
| - | 1,938 | | 48 | 102,975 | 3,875 | 720 | 720 | 670 | 714 | |
| - | 1,937 | | 49 | 104,912 | 5,812 | 620 | 620 | 500 | 605 | |
| - | 0,688 | | 50 | 105,600 | 6,500 | 585 | 585 | 460 | 569 | |
| - | 24,500 | - | 50 | 105,600 | 0 | 585 | 585 | 460 | 569 | |
| - | | 1,250 | 51 | 106,850 | 1,250 | 515 | 475 | 475 | 500 | |
| - | | 1,938 | 52 | 108,788 | 3,188 | 380 | 280 | 280 | 343 | |
| - | | 1,938 | 53 | 110,725 | 5,125 | 265 | 100 | 100 | 203 | |
| - | | 1,938 | 54 | 112,663 | 7,063 | 210 | 80 | 80 | 161 | |
| - | | 1,938 | 55 | 114,600 | 9,000 | 185 | 80 | 185 | 159 | |
| - | | 1,938 | 56 | 116,538 | 10,938 | 240 | 110 | 240 | 208 | |
| - | | 1,938 | 57 | 118,475 | 12,875 | 295 | 140 | 295 | 256 | |
| - | | 1,938 | 58 | 120,413 | 14,813 | 350 | 230 | 350 | 320 | |
| - | | 1,938 | 59 | 122,350 | 16,750 | 440 | 380 | 440 | 425 | |
| - | | 1,938 | 60 | 124,288 | 18,688 | 550 | 550 | 550 | 550 | |
| - | | 1,938 | 61 | 126,225 | 20,625 | 670 | 670 | 670 | 670 | |
| - | | 1,938 | 62 | 128,163 | 22,563 | 785 | 785 | 785 | 785 | |
| 6:V | | 1,938 | 63 | 130,100 | 24,500 | 880 | 880 | 880 | 880 | |
| 6:H | 5,000 | - | 63 | 130,100 | 0 | 880 | 880 | 880 | 880 | |
| - | | 1,562 | 64 | 131,662 | 1,562 | 870 | 870 | 870 | 870 | |
| - | | 1,563 | 65 | 133,225 | 3,125 | 870 | 870 | 870 | 870 | |
| - | | 1,875 | 66 | 135,100 | 5,000 | 760 | 760 | 680 | 750 | |
| - | m | m | - | m | m | mm | mm | mm | mm | |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:43 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



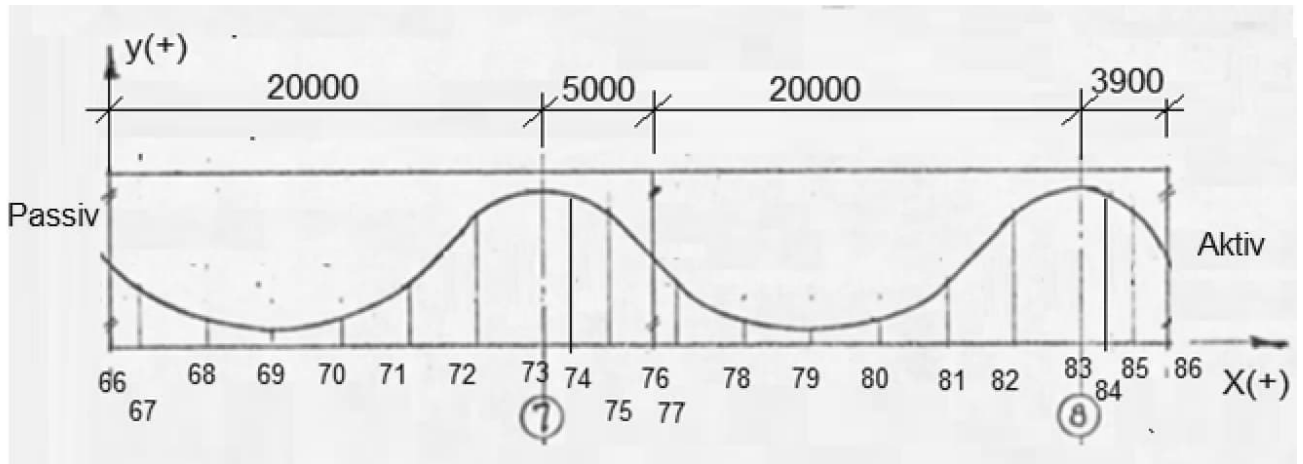
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:44 |
| | | Date : | Created : |

Casting stage 6 → 7: KG 4 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 612/712 | y(+) | y(+) | y(+) | y _{med} (+) |
|------|--------|-------|----|---------|--------|-------------------------------------|------|------|------|----------------------|
| | | | | | | K 632/732 K 662/762 K 682/782 | | | | |
| - | 20,000 | - | 66 | 135,100 | 0 | 760 | 760 | 680 | 750 | |
| - | | 1,250 | 67 | 136,350 | 1,250 | 555 | 555 | 460 | 543 | |
| - | | 3,125 | 68 | 139,475 | 4,375 | 250 | 250 | 250 | 250 | |
| - | | 3,125 | 69 | 142,600 | 7,500 | 150 | 150 | 150 | 150 | |
| - | | 3,125 | 70 | 145,725 | 10,625 | 200 | 200 | 200 | 200 | |
| - | | 3,125 | 71 | 148,850 | 13,750 | 340 | 340 | 340 | 340 | |
| - | | 3,125 | 72 | 151,975 | 16,875 | 600 | 600 | 600 | 600 | |
| 7:V | | 3,125 | 73 | 155,100 | 20,000 | 870 | 870 | 870 | 870 | |
| 7:H | 5,000 | - | 73 | 155,100 | 0 | 870 | 870 | 870 | 870 | |
| - | | 1,562 | 74 | 156,662 | 1,562 | 740 | 855 | 855 | 798 | |
| - | | 1,563 | 75 | 158,225 | 3,125 | 510 | 790 | 790 | 650 | |
| - | | 1,875 | 76 | 160,100 | 5,000 | 340 | 640 | 640 | 490 | |
| - | 20,000 | - | 76 | 160,100 | 0 | 340 | 640 | 640 | 490 | |
| - | | 1,250 | 77 | 161,350 | 1,250 | 270 | 490 | 490 | 380 | |
| - | | 3,125 | 78 | 164,475 | 4,375 | 170 | 170 | 170 | 170 | |
| - | | 3,125 | 79 | 167,600 | 7,500 | 90 | 90 | 90 | 90 | |
| - | | 3,125 | 80 | 170,725 | 10,625 | 170 | 170 | 170 | 170 | |
| - | | 3,125 | 81 | 173,850 | 13,750 | 370 | 370 | 370 | 370 | |
| - | | 3,125 | 82 | 176,975 | 16,875 | 650 | 650 | 650 | 650 | |
| 8:V | | 3,125 | 83 | 180,100 | 20,000 | 850 | 850 | 850 | 850 | |
| 8:H | 3,900 | - | 83 | 180,100 | 0 | 850 | 850 | 850 | 850 | |
| - | | 1,218 | 84 | 181,318 | 1,218 | 850 | 750 | 750 | 800 | |
| - | | 1,219 | 85 | 182,537 | 2,437 | 810 | 510 | 510 | 660 | |
| - | | 1,463 | 86 | 184,000 | 3,900 | 655 | 355 | 355 | 505 | |
| - | m | m | - | m | m | mm | mm | mm | mm | |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:45 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

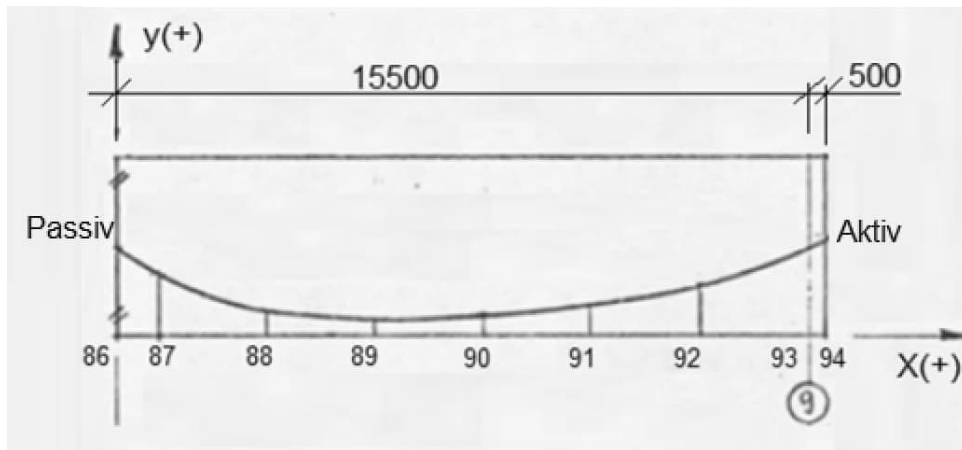


ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:46 |
| | | Date : | Created : |

Casting stage 8: KG 5 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 812 | y(+) | y(+) | y(+) | $y_{med}(+)$ |
|------|--------|------------|----|---------|---------|-------|------|------|------|--------------|
| | | | | | | K 832 | | | | |
| - | 15,500 | - | 86 | 184,000 | 0 | K 862 | 655 | 355 | 355 | 505 |
| - | | 0,975 | 87 | 184,975 | 0,975 | K 882 | 475 | 325 | 325 | 400 |
| - | | 2,421 | 88 | 187,396 | 3,396 | | 275 | 265 | 265 | 270 |
| - | | 2,421 | 89 | 189,817 | 5,817 | | 200 | 200 | 200 | 200 |
| - | | 2,421 | 90 | 192,237 | 8,237 | | 220 | 220 | 220 | 220 |
| - | | 2,421 | 91 | 194,658 | 10,658 | | 300 | 300 | 300 | 300 |
| - | | 2,421 | 92 | 197,079 | 13,079 | | 400 | 400 | 400 | 400 |
| 9:V | | 2,421 | 93 | 199,500 | 15,500 | | 630 | 380 | 380 | 505 |
| 9:H | | 0,500 | - | 93 | 199,500 | 0 | | 630 | 380 | 380 |
| | 0,300 | | 94 | 199,800 | 0,300 | | 660 | 360 | 360 | 510 |
| - | m | m | - | m | m | | mm | mm | mm | mm |



ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:47 |
| | | Date : | Created : |

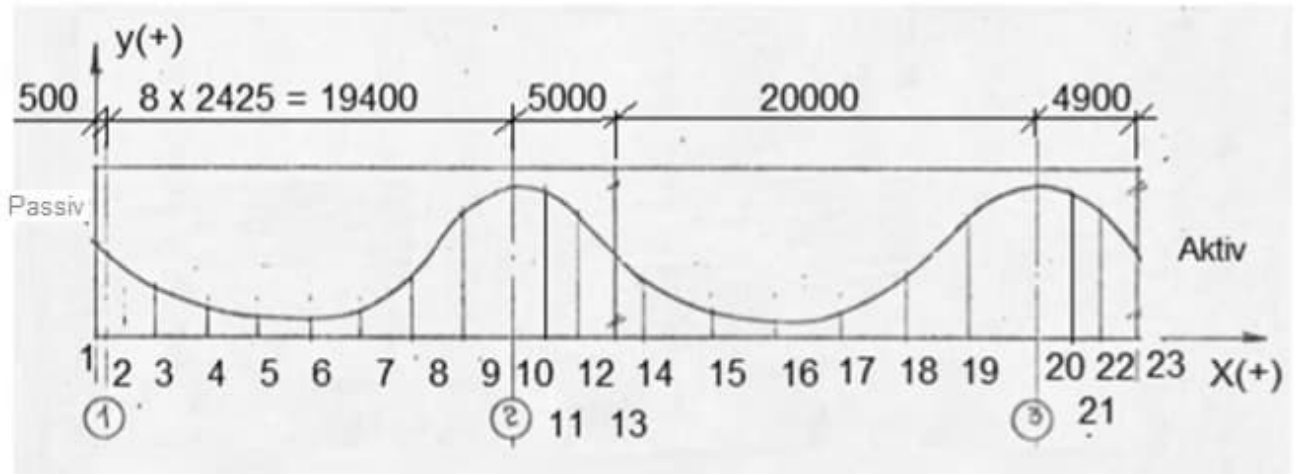
Casting stage 1 → 2: KG 6 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 122/222 | y(+) | K 121/221 | y(+) | y(+) | y _{med} (+) |
|------|--------|-------|----|--------|--------|-----------|------|-----------|------|------|----------------------|
| | | | | | | K 142/242 | | K 131/231 | | | |
| - | 0,500 | - | 1 | 0,200 | 0 | 660 | 360 | 210 | 491 | | |
| 1:V | | - | 2 | 0,500 | 0,300 | 633 | 363 | 235 | 482 | | |
| 1:H | 19,400 | 2,425 | 2 | 0,500 | 0 | 633 | 363 | 235 | 482 | | |
| - | | - | - | 1,712 | 1,212 | 525 | 375 | 335 | 445 | | |
| - | | 2,425 | 3 | 2,925 | 2,425 | 435 | 365 | 365 | 400 | | |
| - | | 2,425 | 4 | 5,350 | 4,850 | 300 | 300 | 300 | 300 | | |
| - | | 2,425 | 5 | 7,775 | 7,275 | 220 | 220 | 220 | 220 | | |
| - | | 2,425 | 6 | 10,200 | 9,700 | 200 | 200 | 200 | 200 | | |
| - | | 2,425 | 7 | 12,625 | 12,125 | 270 | 270 | 270 | 270 | | |
| - | | 2,425 | 8 | 15,050 | 14,550 | 400 | 400 | 400 | 400 | | |
| - | | 2,425 | 9 | 17,475 | 16,975 | 660 | 660 | 660 | 660 | | |
| 2:V | | 2,425 | 10 | 19,900 | 19,400 | 890 | 890 | 890 | 890 | | |
| 2:H | 5,000 | - | 10 | 19,900 | 0 | 890 | 890 | 890 | 890 | | |
| - | | 1,562 | 11 | 21,462 | 1,562 | 840 | 740 | 740 | 790 | | |
| - | | 1,563 | 12 | 23,025 | 3,125 | 750 | 550 | 550 | 650 | | |
| - | | 1,875 | 13 | 24,900 | 5,000 | 630 | 330 | 330 | 480 | | |
| - | 20,000 | - | 13 | 24,900 | 0 | 630 | 330 | 330 | 480 | | |
| - | | 1,250 | 14 | 26,150 | 1,250 | 505 | 235 | 235 | 370 | | |
| - | | 3,125 | 15 | 29,275 | 4,375 | 170 | 170 | 170 | 170 | | |
| - | | 3,125 | 16 | 32,400 | 7,500 | 90 | 90 | 90 | 90 | | |
| - | | 3,125 | 17 | 35,525 | 10,625 | 170 | 170 | 170 | 170 | | |
| - | | 3,125 | 18 | 38,650 | 13,750 | 380 | 380 | 380 | 380 | | |
| - | | 3,125 | 19 | 41,775 | 16,875 | 650 | 650 | 650 | 650 | | |
| 3:V | | 3,125 | 20 | 44,900 | 20,000 | 860 | 840 | 840 | 850 | | |
| 3:H | 4,900 | - | 20 | 44,900 | 0 | 860 | 840 | 840 | 850 | | |
| - | | 1,450 | 21 | 46,350 | 1,450 | 810 | 650 | 650 | 730 | | |
| - | | 1,450 | 22 | 47,800 | 2,900 | 750 | 450 | 450 | 600 | | |
| - | | 2,000 | 23 | 49,800 | 4,900 | 570 | 270 | 270 | 420 | | |
| - | m | m | - | m | m | mm | mm | mm | mm | | |

Manual verification:

$$y_{med}(+) = \frac{810mm \cdot 4 + 650mm \cdot 3 + 650mm \cdot 1}{8} = 730mm$$

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:48 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



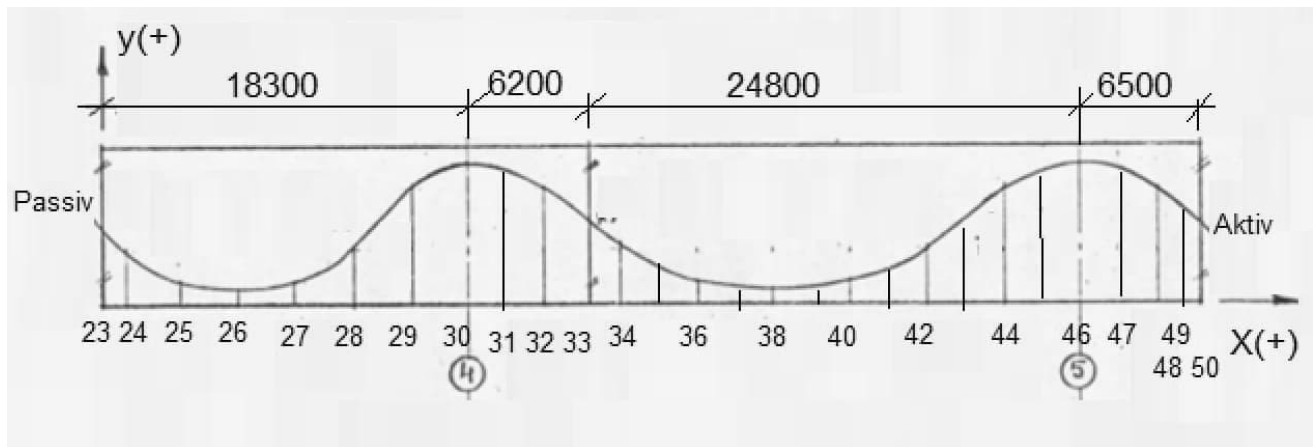
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:49 |
| | | Date : | Created : |

Casting stage 3 → 4: KG 7 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) | y(+) | y(+) | y _{med} (+) |
|------|--------|-------|-------|---------|--------|--------|------|------|----------------------|
| - | 18,300 | - | 23 | 49,800 | 0 | 570 | 270 | 270 | 420 |
| - | | 0,900 | 24 | 50,700 | 0,900 | 440 | 240 | 240 | 340 |
| - | | 2,900 | 25 | 53,600 | 3,800 | 210 | 190 | 190 | 200 |
| - | | 2,900 | 26 | 56,500 | 6,700 | 150 | 150 | 150 | 150 |
| - | | 2,900 | 27 | 59,400 | 9,600 | 250 | 250 | 250 | 250 |
| - | | 2,900 | 28 | 62,300 | 12,500 | 500 | 500 | 500 | 500 |
| - | | 2,900 | 29 | 65,200 | 15,400 | 770 | 770 | 770 | 770 |
| 4:V | | 2,900 | 30 | 68,100 | 18,300 | 910 | 910 | 910 | 910 |
| 4:H | 6,200 | - | 30 | 68,100 | 0 | 910 | 910 | 910 | 910 |
| - | | 1,937 | 31 | 70,037 | 1,937 | 850 | 850 | 850 | 850 |
| - | | 1,938 | 32 | 71,975 | 3,875 | 740 | 740 | 685 | 733 |
| - | | 2,325 | 33 | 74,300 | 6,200 | 600 | 600 | 475 | 584 |
| - | 24,800 | - | 33 | 74,300 | 0 | 600 | 600 | 475 | 584 |
| - | | 1,550 | 34 | 75,850 | 1,550 | 450 | 520 | 380 | 468 |
| - | | 1,938 | 35 | 77,788 | 3,488 | 260 | 460 | 300 | 340 |
| - | | 1,938 | 36 | 79,725 | 5,425 | 130 | 325 | 250 | 218 |
| - | | 1,938 | 37 | 81,663 | 7,363 | 110 | 245 | 220 | 174 |
| - | | 1,938 | 38 | 83,600 | 9,300 | 80 | 185 | 185 | 133 |
| - | | 1,938 | 39 | 85,538 | 11,238 | 80 | 185 | 185 | 133 |
| - | | 1,938 | 40 | 87,475 | 13,175 | 150 | 210 | 210 | 180 |
| - | | 1,938 | 41 | 89,413 | 15,113 | 285 | 290 | 290 | 288 |
| - | | 1,938 | 42 | 91,350 | 17,050 | 430 | 430 | 430 | 430 |
| - | | 1,938 | 43 | 93,288 | 18,988 | 550 | 550 | 550 | 550 |
| - | | 1,938 | 44 | 95,225 | 20,925 | 670 | 670 | 670 | 670 |
| - | | 1,938 | 45 | 97,163 | 22,863 | 810 | 810 | 810 | 810 |
| 5:V | | | 1,938 | 46 | 99,100 | 24,800 | 900 | 900 | 900 |
| 5:H | 6,500 | - | 46 | 99,100 | 0 | 900 | 900 | 900 | 900 |
| - | | 1,937 | 47 | 101,037 | 1,937 | 820 | 820 | 820 | 820 |
| - | | 1,938 | 48 | 102,975 | 3,875 | 720 | 720 | 670 | 714 |
| - | | 1,937 | 49 | 104,912 | 5,812 | 620 | 620 | 500 | 605 |
| - | | 0,688 | 50 | 105,600 | 6,500 | 585 | 585 | 460 | 569 |
| - | m | m | - | m | m | mm | mm | mm | mm |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:50 |
| | | Date : | Created : |



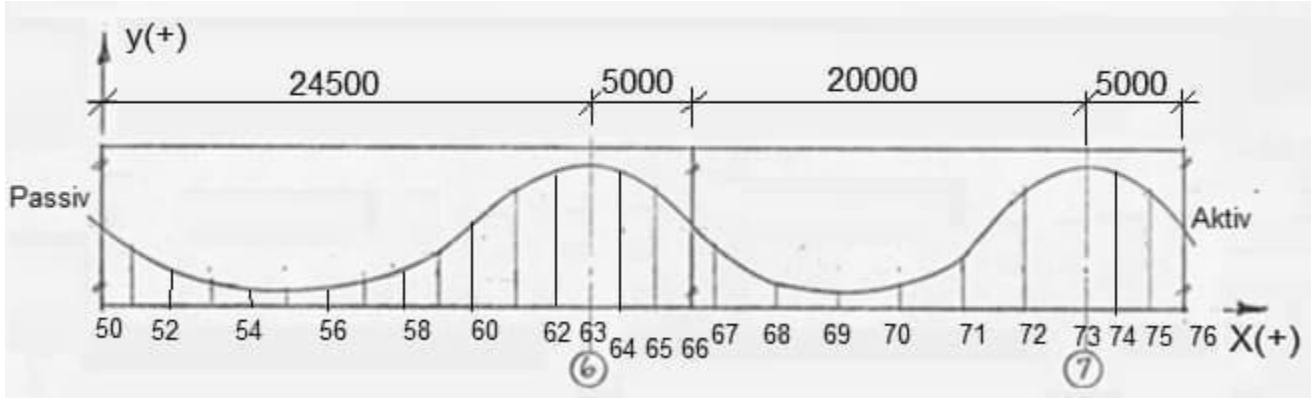
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:51 |
| | | Date : | Created : |

Casting stage 5 → 6: KG 8 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 522/622 | y(+) | K 531/631 | y(+) | y _{med} (+) |
|------|--------|-------|----|---------|--------|-----------|------|-----------|------|----------------------|
| | | | | | | K 542/642 | | K 552/652 | | |
| - | 24,500 | - | 50 | 105,600 | 0 | 585 | 585 | 585 | 460 | 569 |
| - | | 1,250 | 51 | 106,850 | 1,250 | 475 | 515 | 515 | 380 | 478 |
| - | | 1,938 | 52 | 108,788 | 3,188 | 280 | 380 | 380 | 260 | 315 |
| - | | 1,938 | 53 | 110,725 | 5,125 | 100 | 265 | 265 | 190 | 173 |
| - | | 1,938 | 54 | 112,663 | 7,063 | 80 | 210 | 210 | 190 | 143 |
| - | | 1,938 | 55 | 114,600 | 9,000 | 80 | 185 | 185 | 185 | 133 |
| - | | 1,938 | 56 | 116,538 | 10,938 | 110 | 240 | 240 | 240 | 175 |
| - | | 1,938 | 57 | 118,475 | 12,875 | 140 | 295 | 295 | 295 | 218 |
| - | | 1,938 | 58 | 120,413 | 14,813 | 230 | 350 | 350 | 350 | 290 |
| - | | 1,938 | 59 | 122,350 | 16,750 | 380 | 440 | 440 | 440 | 410 |
| - | | 1,938 | 60 | 124,288 | 18,688 | 550 | 550 | 550 | 550 | 550 |
| - | | 1,938 | 61 | 126,225 | 20,625 | 670 | 670 | 670 | 670 | 670 |
| - | | 1,938 | 62 | 128,163 | 22,563 | 785 | 785 | 785 | 785 | 785 |
| 6:V | | 1,938 | 63 | 130,100 | 24,500 | 880 | 880 | 880 | 880 | 880 |
| 6:H | 5,000 | - | 63 | 130,100 | 0 | 880 | 880 | 880 | 880 | 880 |
| - | | 1,562 | 64 | 131,662 | 1,562 | 870 | 870 | 870 | 870 | 870 |
| - | | 1,563 | 65 | 133,225 | 3,125 | 845 | 845 | 800 | 845 | 834 |
| - | | 1,875 | 66 | 135,100 | 5,000 | 680 | 760 | 605 | 680 | 671 |
| - | 20,000 | - | 66 | 135,100 | 0 | 680 | 760 | 605 | 680 | 671 |
| - | | 1,250 | 67 | 136,350 | 1,250 | 450 | 555 | 440 | 450 | 461 |
| - | | 3,125 | 68 | 139,475 | 4,375 | 250 | 250 | 250 | 250 | 250 |
| - | | 3,125 | 69 | 142,600 | 7,500 | 150 | 150 | 150 | 150 | 150 |
| - | | 3,125 | 70 | 145,725 | 10,625 | 200 | 200 | 200 | 200 | 200 |
| - | | 3,125 | 71 | 148,850 | 13,750 | 340 | 340 | 340 | 340 | 340 |
| - | | 3,125 | 72 | 151,975 | 16,875 | 600 | 600 | 600 | 600 | 600 |
| 7:V | | 3,125 | 73 | 155,100 | 20,000 | 870 | 870 | 870 | 870 | 870 |
| 7:H | 5,000 | - | 73 | 155,100 | 0 | 870 | 870 | 870 | 870 | 870 |
| - | | 1,562 | 74 | 156,662 | 1,562 | 740 | 855 | 855 | 855 | 798 |
| - | | 1,563 | 75 | 158,225 | 3,125 | 510 | 790 | 790 | 790 | 650 |
| - | | 1,875 | 76 | 160,100 | 5,000 | 340 | 640 | 640 | 640 | 490 |
| - | m | m | - | m | m | mm | mm | mm | mm | mm |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:52 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



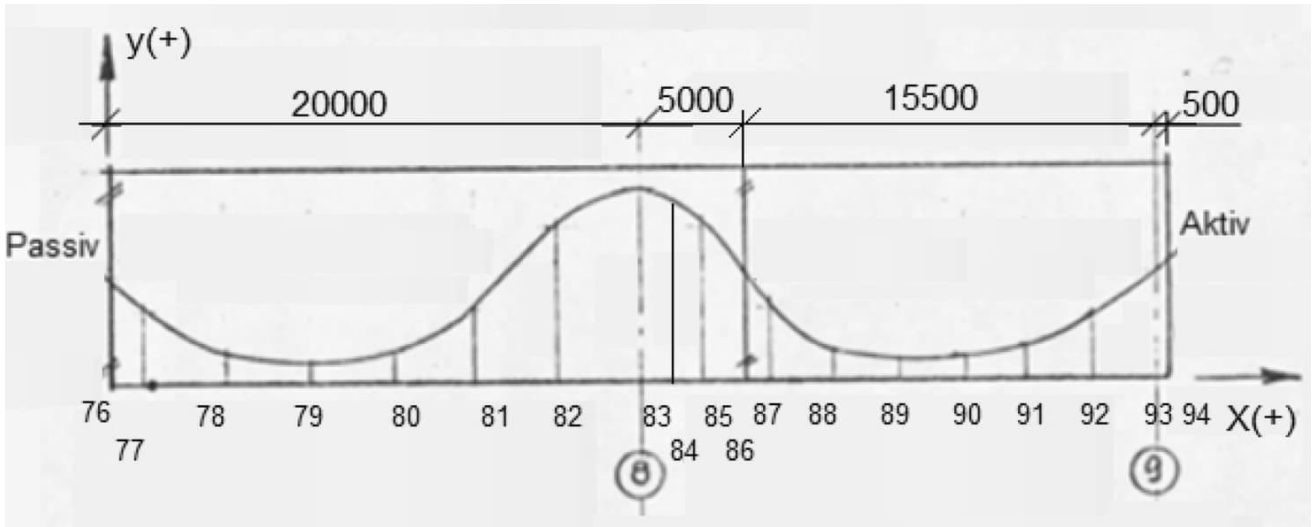
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:53 |
| | | Date : | Created : |

Casting stage 7 → 8: KG 9 – 8 cables

| Stöd | L | ΔL | Nr | X(+) | x(+) | K 722/822 | K 742/842 | K 752/852 | K 772/872 | K 721/821 | K 731/831 | K 761/861 | K 711/811 | y _{med} (+) |
|------|--------|-------|----|---------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|
| | | | | | | y(+) | y(+) | y(+) | y(+) | | | | | |
| - | 20,000 | - | 76 | 160,100 | 0 | 340 | 640 | 640 | 640 | 490 | 490 | 490 | 490 | 490 |
| - | | 1,250 | 77 | 161,350 | 1,250 | 270 | 490 | 490 | 490 | 380 | 380 | 380 | 380 | 380 |
| - | | 3,125 | 78 | 164,475 | 4,375 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| - | | 3,125 | 79 | 167,600 | 7,500 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| - | | 3,125 | 80 | 170,725 | 10,625 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| - | | 3,125 | 81 | 173,850 | 13,750 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 | 370 |
| - | | 3,125 | 82 | 176,975 | 16,875 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 |
| 8:V | | 3,125 | 83 | 180,100 | 20,000 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 |
| 8:H | 3,900 | - | 83 | 180,100 | 0 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 | 850 |
| - | | 1,218 | 84 | 181,318 | 1,218 | 850 | 750 | 750 | 750 | 800 | 800 | 800 | 800 | 800 |
| - | | 1,219 | 85 | 182,537 | 2,437 | 810 | 510 | 510 | 510 | 660 | 660 | 660 | 660 | 660 |
| - | | 1,463 | 86 | 184,000 | 3,900 | 655 | 355 | 355 | 355 | 505 | 505 | 505 | 505 | 505 |
| - | 15,500 | - | 86 | 184,000 | 0 | 655 | 355 | 355 | 355 | 505 | 505 | 505 | 505 | 505 |
| - | | 0,975 | 87 | 184,975 | 0,975 | 475 | 325 | 325 | 325 | 400 | 400 | 400 | 400 | 400 |
| - | | 2,421 | 88 | 187,396 | 3,396 | 275 | 265 | 265 | 265 | 270 | 270 | 270 | 270 | 270 |
| - | | 2,421 | 89 | 189,817 | 5,817 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| - | | 2,421 | 90 | 192,237 | 8,237 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| - | | 2,421 | 91 | 194,658 | 10,658 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| - | | 2,421 | 92 | 197,079 | 13,079 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| 9:V | | 2,421 | 93 | 199,500 | 15,500 | 620 | 380 | 380 | 380 | 500 | 500 | 500 | 500 | 500 |
| 9:H | 0,500 | - | 93 | 199,500 | 0 | 620 | 380 | 380 | 380 | 500 | 500 | 500 | 500 | 500 |
| - | | 0,300 | 94 | 199,800 | 0,300 | 660 | 360 | 360 | 360 | 510 | 510 | 510 | 510 | 510 |
| - | m | m | - | m | m | mm | mm | mm | mm | mm | mm | mm | mm | mm |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:54 |
| | | Date : | Created : |



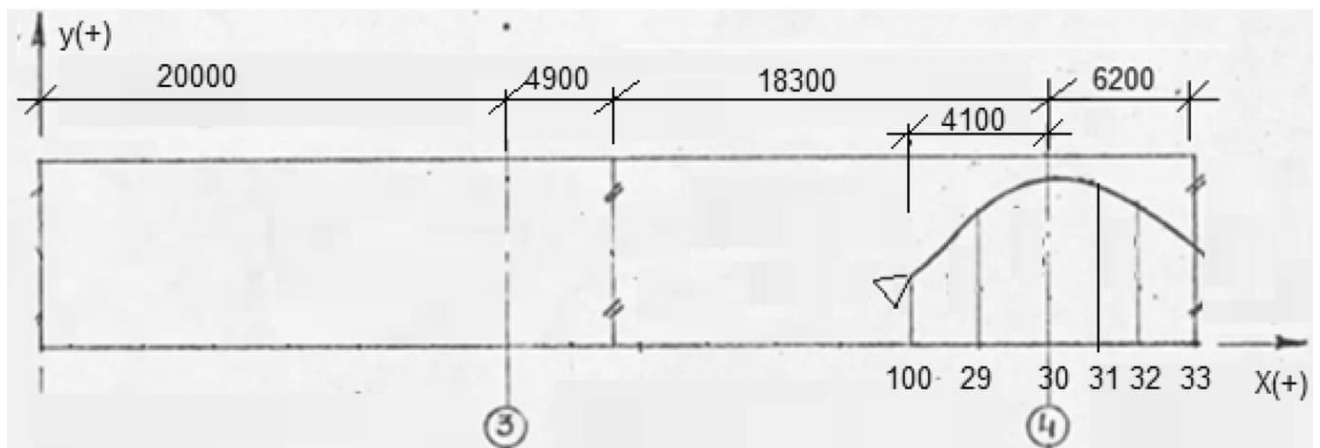
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:55 |
| | | Date : | Created : |

Casting stage 3: KG 10 – 5 cables

K 313
K 333
K 353
K 363
K 383

| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) | y _{med} (+) |
|------|--------|-------|-----|--------|--------|------|----------------------|
| - | 18,300 | - | 23 | 49,800 | 0 | x | - |
| - | | 0,900 | 24 | 50,700 | 0,900 | x | - |
| - | | 2,900 | 25 | 53,600 | 3,800 | x | - |
| - | | 2,900 | 26 | 56,500 | 6,700 | x | - |
| - | | 2,900 | 27 | 59,400 | 9,600 | x | - |
| - | | 2,900 | 28 | 62,300 | 12,500 | x | - |
| - | | 1,700 | 100 | 64,000 | 14,200 | 450 | 450 |
| - | | 1,200 | 29 | 65,200 | 15,400 | 665 | 665 |
| 4:V | | 2,900 | 30 | 68,100 | 18,300 | 805 | 805 |
| 4:H | 6,200 | - | 30 | 68,100 | 0 | 805 | 805 |
| - | | 1,937 | 31 | 70,037 | 1,937 | 680 | 680 |
| - | | 1,938 | 32 | 71,975 | 3,875 | 440 | 440 |
| - | | 2,325 | 33 | 74,300 | 6,200 | 300 | 300 |
| - | m | m | - | m | m | mm | mm |



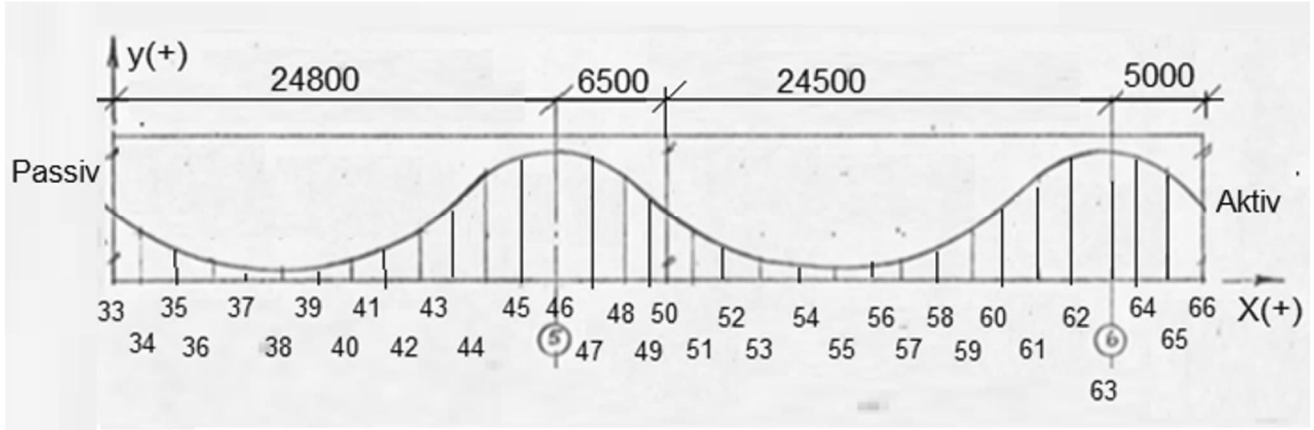
| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:56 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Casting stage 4-5: KG 11 – 5 cables

K 413/513
K 433/533
K 453/543
K 463/563
K 483/583

| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) | y _{med} (+) |
|------|--------|-------|----|---------|--------|------|----------------------|
| - | 24,800 | - | 33 | 74,300 | 0 | 300 | 300 |
| - | | 1,550 | 34 | 75,850 | 1,550 | 230 | 230 |
| - | | 1,938 | 35 | 77,788 | 3,488 | 170 | 170 |
| - | | 1,938 | 36 | 79,725 | 5,425 | 130 | 130 |
| - | | 1,938 | 37 | 81,663 | 7,363 | 110 | 110 |
| - | | 1,938 | 38 | 83,600 | 9,300 | 80 | 80 |
| - | | 1,938 | 39 | 85,538 | 11,238 | 80 | 80 |
| - | | 1,938 | 40 | 87,475 | 13,175 | 90 | 90 |
| - | | 1,938 | 41 | 89,413 | 15,113 | 145 | 145 |
| - | | 1,938 | 42 | 91,350 | 17,050 | 275 | 275 |
| - | | 1,938 | 43 | 93,288 | 18,988 | 410 | 410 |
| - | | 1,938 | 44 | 95,225 | 20,925 | 540 | 540 |
| - | | 1,938 | 45 | 97,163 | 22,863 | 670 | 670 |
| 5:V | | 1,938 | 46 | 99,100 | 24,800 | 795 | 795 |
| 5:H | 6,500 | - | 46 | 99,100 | 0 | 795 | 795 |
| - | | 1,937 | 47 | 101,037 | 1,937 | 650 | 650 |
| - | | 1,938 | 48 | 102,975 | 3,875 | 470 | 470 |
| - | | 1,937 | 49 | 104,912 | 5,812 | 330 | 330 |
| - | | 0,688 | 50 | 105,600 | 6,500 | 285 | 285 |
| - | 24,500 | - | 50 | 105,600 | 0 | 285 | 285 |
| - | | 1,250 | 51 | 106,850 | 1,250 | 215 | 215 |
| - | | 1,938 | 52 | 108,788 | 3,188 | 150 | 150 |
| - | | 1,938 | 53 | 110,725 | 5,125 | 80 | 80 |
| - | | 1,938 | 54 | 112,663 | 7,063 | 80 | 80 |
| - | | 1,938 | 55 | 114,600 | 9,000 | 80 | 80 |
| - | | 1,938 | 56 | 116,538 | 10,938 | 110 | 110 |
| - | | 1,938 | 57 | 118,475 | 12,875 | 140 | 140 |
| - | | 1,938 | 58 | 120,413 | 14,813 | 210 | 210 |
| - | | 1,938 | 59 | 122,350 | 16,750 | 320 | 320 |
| - | | 1,938 | 60 | 124,288 | 18,688 | 420 | 420 |
| - | | 1,938 | 61 | 126,225 | 20,625 | 540 | 540 |
| - | | 1,938 | 62 | 128,163 | 22,563 | 655 | 655 |
| 6:V | | 1,938 | 63 | 130,100 | 24,500 | 750 | 750 |
| 6:H | 5,000 | - | 63 | 130,100 | 0 | 750 | 750 |
| - | | 1,562 | 64 | 131,662 | 1,562 | 680 | 680 |
| - | | 1,563 | 65 | 133,225 | 3,125 | 555 | 555 |
| - | | 1,875 | 66 | 135,100 | 5,000 | 410 | 410 |
| - | m | m | - | m | m | mm | mm |

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:57 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



ELEVATION

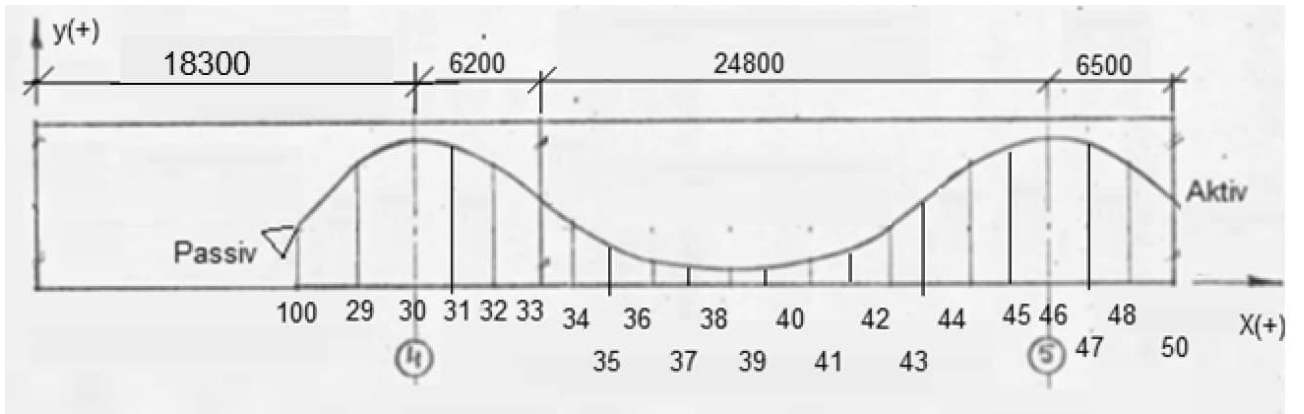
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:58 |
| | | Date : | Created : |

Casting stage 3 → 4: KG 12 – 5 cables

K 323/423
K 334/434
K 343/443
K 364/464
K 373/473

| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) | y _{med} (+) |
|------|--------|-------|-----|---------|--------|------|----------------------|
| - | 18,300 | - | 23 | 49,800 | 0 | x | - |
| - | | 0,900 | 24 | 50,700 | 0,900 | x | - |
| - | | 2,900 | 25 | 53,600 | 3,800 | x | - |
| - | | 2,900 | 26 | 56,500 | 6,700 | x | - |
| - | | 2,900 | 27 | 59,400 | 9,600 | x | - |
| - | | 2,900 | 28 | 62,300 | 12,500 | x | - |
| - | | 1,700 | 100 | 64,000 | 14,200 | 450 | 450 |
| - | | 1,200 | 29 | 65,200 | 15,400 | 665 | 665 |
| 4:V | | 2,900 | 30 | 68,100 | 18,300 | 805 | 805 |
| 4:H | | 6,200 | - | 30 | 68,100 | 0 | 805 |
| - | 1,937 | | 31 | 70,037 | 1,937 | 680 | 680 |
| - | 1,938 | | 32 | 71,975 | 3,875 | 440 | 440 |
| - | 2,325 | | 33 | 74,300 | 6,200 | 300 | 300 |
| - | 24,800 | - | 33 | 74,300 | 0 | 300 | 300 |
| - | | 1,550 | 34 | 75,850 | 1,550 | 230 | 230 |
| - | | 1,938 | 35 | 77,788 | 3,488 | 170 | 170 |
| - | | 1,938 | 36 | 79,725 | 5,425 | 130 | 130 |
| - | | 1,938 | 37 | 81,663 | 7,363 | 110 | 110 |
| - | | 1,938 | 38 | 83,600 | 9,300 | 80 | 80 |
| - | | 1,938 | 39 | 85,538 | 11,238 | 80 | 80 |
| - | | 1,938 | 40 | 87,475 | 13,175 | 90 | 90 |
| - | | 1,938 | 41 | 89,413 | 15,113 | 145 | 145 |
| - | | 1,938 | 42 | 91,350 | 17,050 | 275 | 275 |
| - | | 1,938 | 43 | 93,288 | 18,988 | 410 | 410 |
| - | | 1,938 | 44 | 95,225 | 20,925 | 540 | 540 |
| - | | 1,938 | 45 | 97,163 | 22,863 | 670 | 670 |
| 5:V | | 1,938 | 46 | 99,100 | 24,800 | 795 | 795 |
| 5:H | 6,500 | - | 46 | 99,100 | 0 | 795 | 795 |
| - | | 1,937 | 47 | 101,037 | 1,937 | 650 | 650 |
| - | | 1,938 | 48 | 102,975 | 3,875 | 470 | 470 |
| - | | 1,937 | 49 | 104,912 | 5,812 | 330 | 330 |
| - | | 0,688 | 50 | 105,600 | 6,500 | 285 | 285 |
| - | m | m | - | m | m | mm | mm |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:59 |
| | | Date : | Created : |



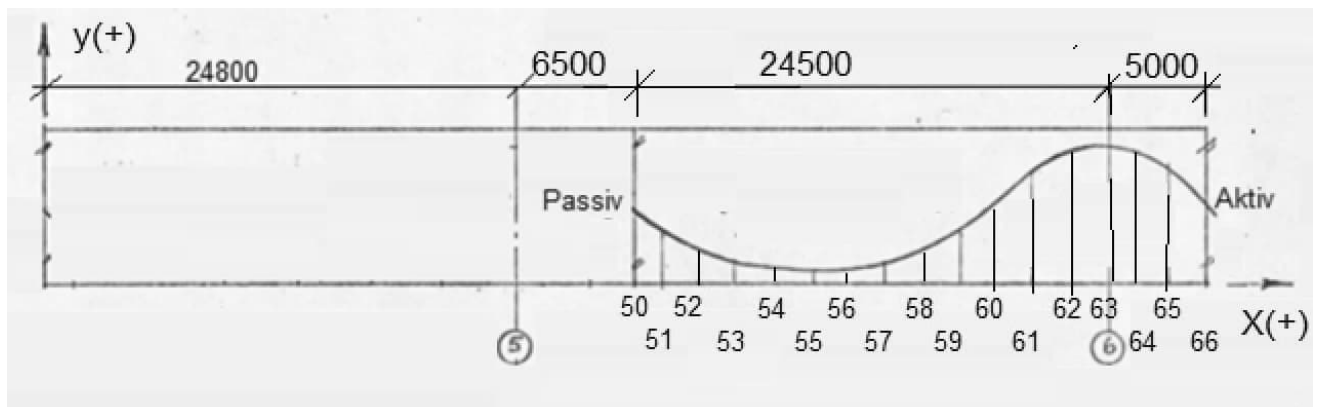
ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:60 |
| | | Date : | Created : |

Casting stage 5: KG 13 – 5 cables

K 523/623
K 534/634
K 543/643
K 564/664
K 573/673

| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) | $y_{med}(+)$ |
|------|--------|------------|---------|---------|--------|------|--------------|
| - | 24,500 | - | 50 | 105,600 | 0 | 285 | 285 |
| - | | 1,250 | 51 | 106,850 | 1,250 | 215 | 215 |
| - | | 1,938 | 52 | 108,788 | 3,188 | 150 | 150 |
| - | | 1,938 | 53 | 110,725 | 5,125 | 80 | 80 |
| - | | 1,938 | 54 | 112,663 | 7,063 | 80 | 80 |
| - | | 1,938 | 55 | 114,600 | 9,000 | 80 | 80 |
| - | | 1,938 | 56 | 116,538 | 10,938 | 110 | 110 |
| - | | 1,938 | 57 | 118,475 | 12,875 | 140 | 140 |
| - | | 1,938 | 58 | 120,413 | 14,813 | 210 | 210 |
| - | | 1,938 | 59 | 122,350 | 16,750 | 320 | 320 |
| - | | 1,938 | 60 | 124,288 | 18,688 | 420 | 420 |
| - | | 1,938 | 61 | 126,225 | 20,625 | 540 | 540 |
| - | | 1,938 | 62 | 128,163 | 22,563 | 655 | 655 |
| 6:V | 1,938 | 63 | 130,100 | 24,500 | 750 | 750 | |
| 6:H | 5,000 | - | 63 | 130,100 | 0 | 750 | 750 |
| - | | 1,562 | 64 | 131,662 | 1,562 | 680 | 680 |
| - | | 1,563 | 65 | 133,225 | 3,125 | 555 | 555 |
| - | | 1,875 | 66 | 135,100 | 5,000 | 410 | 410 |
| - | m | m | - | m | m | mm | mm |

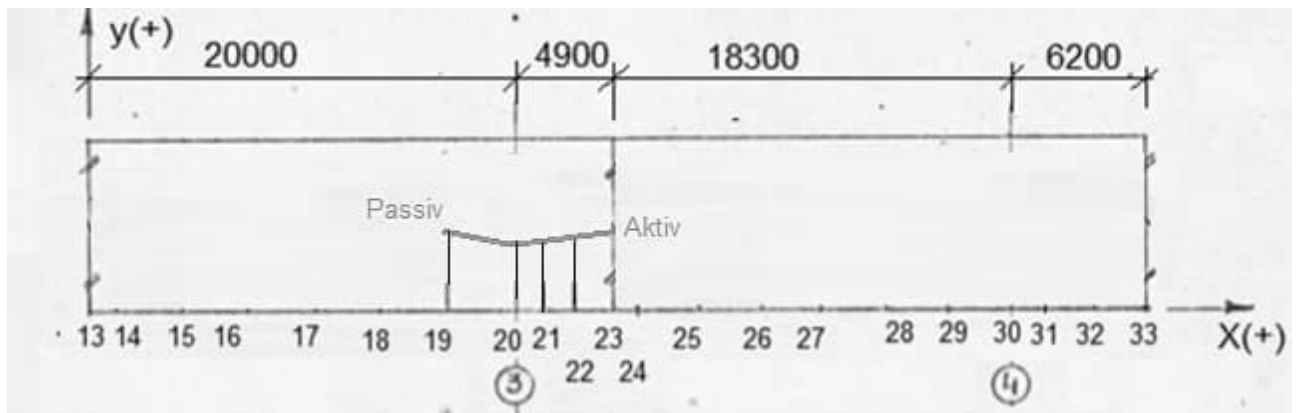


ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:61 |
| | | Date : | Created : |

Casting stage 2 → 3: KG 14 – 3 cables

| | | | | | | K 223 K 253 K 273 |
|------|-------|------------|----|--------|--------|-------------------------|
| Stöd | L | ΔL | Nr | X(+) | x(+) | y(+) |
| - | | - | 19 | 42,900 | 18,000 | 450 |
| 3:V | | 2,000 | 20 | 44,900 | 20,000 | 200 |
| 3:H | 4,900 | - | 20 | 44,900 | 0 | 200 |
| - | | 1,450 | 21 | 46,350 | 1,450 | 210 |
| - | | 1,450 | 22 | 47,800 | 2,900 | 270 |
| - | | 2,000 | 23 | 49,800 | 4,900 | 455 |
| - | m | m | - | m | m | mm |



ELEVATION

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:62 |
| | | Date : | Created : |

3.8.3 Cabel position: static system

In the static model, tension cables VSL 12φ13 are introduced in the 8 longitudinal beams (LB 1-8) with the principal distribution as follows.

| Span | LB 1 | LB 2 | LB 3 | LB 4 | LB 5 | LB 6 | LB 7 | LB 8 | Total |
|------|----------------------|------|------|------|----------------------|------|------|----------------------|-----------------------|
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 |
| 2 | 2 + 1 ^{1.)} | 2 | 2 | 2 | 2 + 1 ^{1.)} | 2 | 2 | 2 + 1 ^{1.)} | 16 + 3 ^{1.)} |
| 3 | 2 + 1 ^{1.)} | 2 | 2 | 2 | 2 + 1 ^{1.)} | 2 | 2 | 2 + 1 ^{1.)} | 16 + 3 ^{1.)} |
| 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 26 |
| 5 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 26 |
| 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 |
| 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 |
| 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 |
| - | st | st | st | st | st | st | st | st | st |

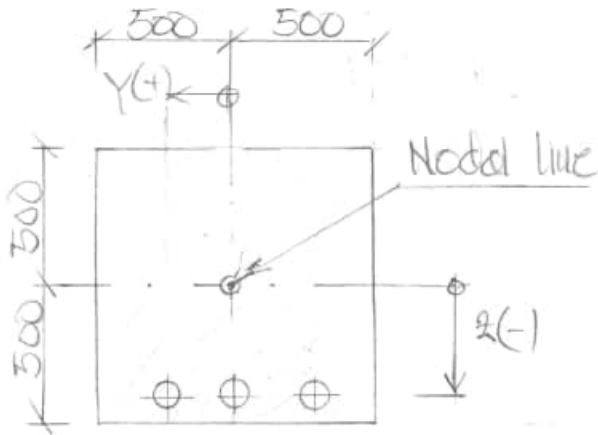
Cables are placed centrally sideways for each longitudinal beam, i.e., $y = 0$ m.
This simplification does not affect the center of gravity of the prestressing cables.

Notes

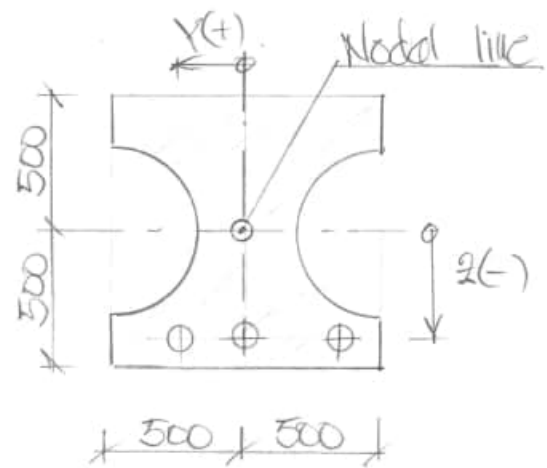
^{1.)} Local addition on each side of support 3 of KG 14.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:63 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Cables are introduced into the different cross-section types as shown below.

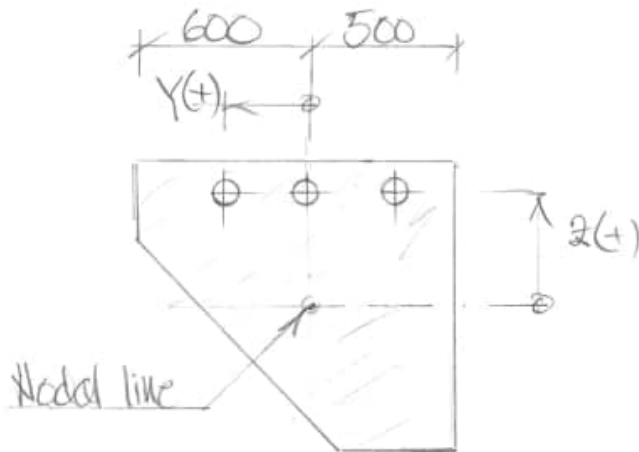


LB – type 4



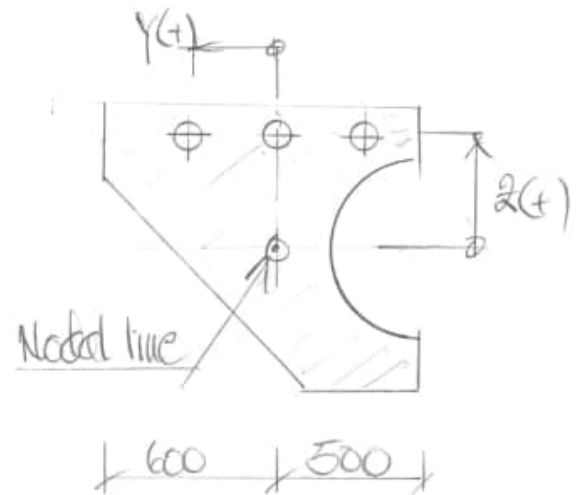
LB – type 1

Applies to type 2 & 3 also.



LB – type 5

Applies to type 7.



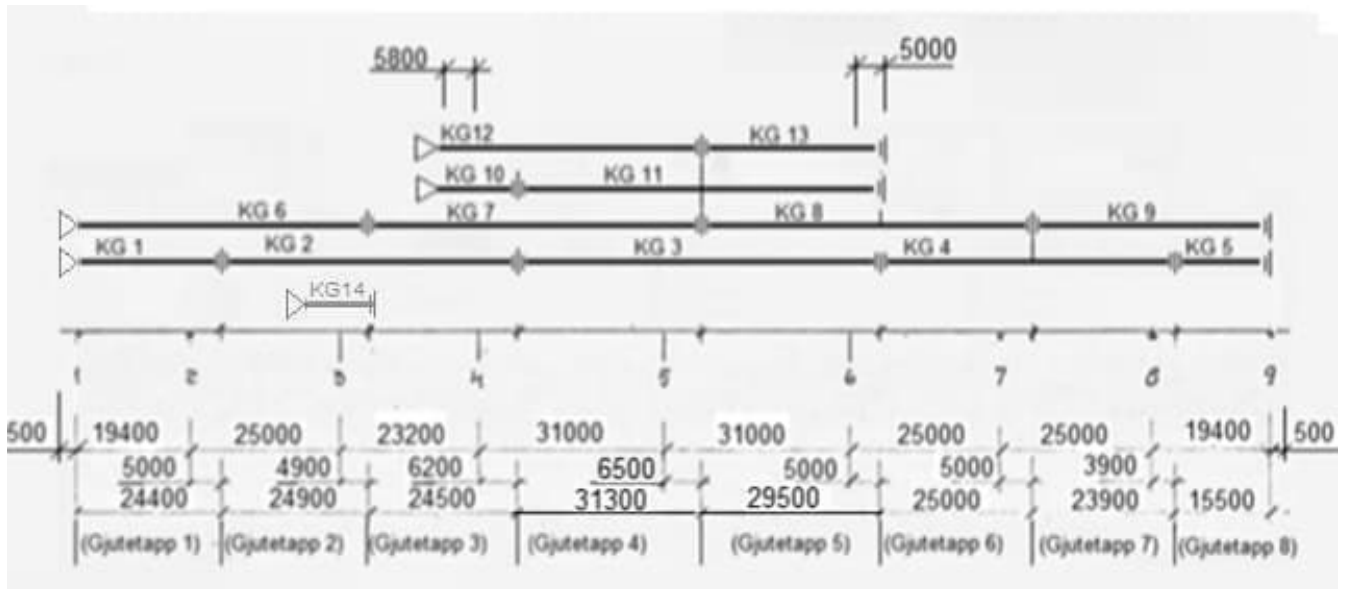
LB – type 6

Applies to type 8.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:64 |
| | | Date : | Created : |

3.8.4 Tendon loadcases

Below is shown how prestressing reinforcement is incorporated in the static model.



Summary input prestress:

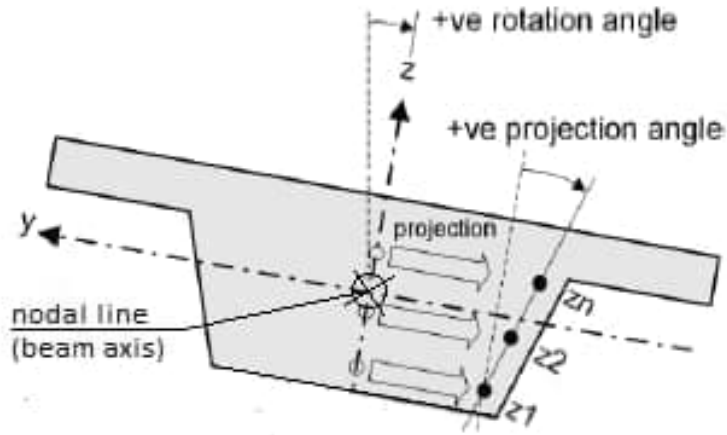
| Tendon load | Area | Total cables | Slip | Left side | Right side | Max. prestress before | Min. prestress after | L |
|-------------|-----------------|--------------|------|-----------|------------|-----------------------|----------------------|---------------------|
| KG 1 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 24.7 ^{1.)} |
| KG 2 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 49.4 |
| KG 3 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 60.8 |
| KG 4 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 48.9 |
| KG 5 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 15.8 ^{1.)} |
| KG 6 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 49.7 ^{1.)} |
| KG 7 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 55.8 |
| KG 8 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 54.5 |
| KG 9 | 1110 | 8 | 4 | Passiv | Aktiv | 1350 | 1299 | 39.7 ^{1.)} |
| KG 10 | 1110 | 5 | 4 | Passiv | Aktiv | 1350 | 1299 | 12.0 |
| KG 11 | 1110 | 5 | 4 | Passiv | Aktiv | 1350 | 1299 | 60.8 |
| KG 12 | 1110 | 5 | 4 | Passiv | Aktiv | 1350 | 1299 | 43.3 |
| KG 13 | 1110 | 5 | 4 | Passiv | Aktiv | 1350 | 1299 | 29.5 |
| KG 14 | 1110 | 3 | 4 | Passiv | Aktiv | 1350 | 1299 | 6.9 |
| - | mm ² | - | mm | - | - | kN | kN | m |

1.) Cable ends 0.2 m from end of bridge.

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:65 |
| | | Date : | Created : |

3.8.4.1 Load definition

Profiles used in static modell, see page A3:46-52.



Principal sketch

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:66 |
| | | Date : | Created : |

3.8.4.2 Tendon profile

Spread sheet input for KG 1:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,529 | 0,029 | Passive anchorage |
| 0,300 | 0,514 | 0,014 | Support 1 |
| 1,512 | 0,455 | -0,045 | - |
| 2,725 | 0,400 | -0,100 | - |
| 5,150 | 0,300 | -0,200 | - |
| 7,575 | 0,220 | -0,280 | - |
| 10,000 | 0,200 | -0,300 | - |
| 12,425 | 0,270 | -0,230 | - |
| 14,850 | 0,400 | -0,100 | - |
| 17,275 | 0,660 | 0,160 | - |
| 19,700 | 0,890 | 0,390 | Support 2 |
| 21,262 | 0,790 | 0,290 | - |
| 22,825 | 0,650 | 0,150 | - |
| 24,700 | 0,480 | -0,020 | Active anchorage |
| m | m | m | - |

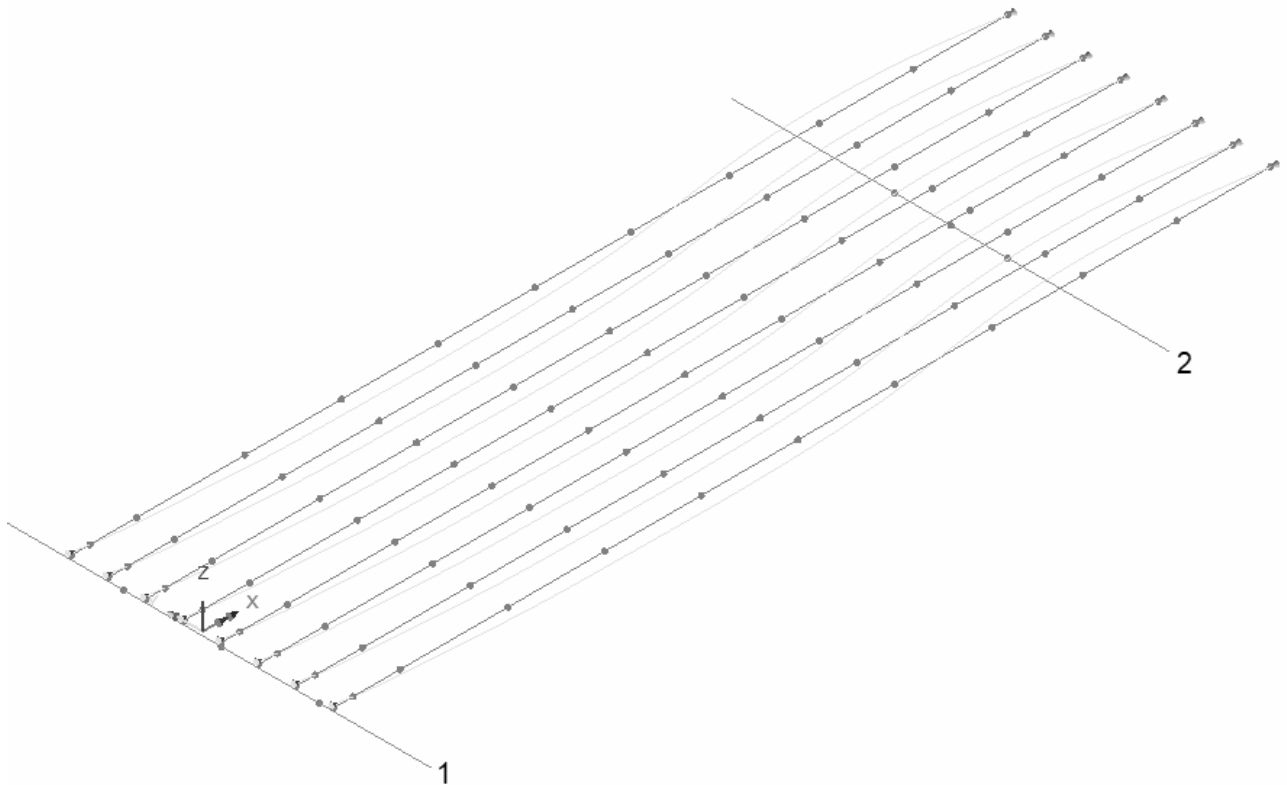
Offset distance from end 1 (start): 0.2 m

Jacking at end 1 (start): no
 Jacking at end 2 (end): yes



Elevation
 Visualizatiion

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:67 |
| | | Date : | Created : |



3D-view
Visualization

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:68 |
| | | Date : | Created : |

Spread sheet input for KG 2:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,480 | -0,020 | Passive anchorage |
| 1,250 | 0,370 | -0,130 | - |
| 4,375 | 0,170 | -0,330 | - |
| 7,500 | 0,090 | -0,410 | - |
| 10,625 | 0,170 | -0,330 | - |
| 13,750 | 0,380 | -0,120 | - |
| 16,875 | 0,650 | 0,150 | - |
| 20,000 | 0,850 | 0,350 | Support 3 |
| 21,450 | 0,730 | 0,230 | - |
| 22,900 | 0,600 | 0,100 | - |
| 24,900 | 0,420 | -0,080 | - |
| 25,800 | 0,340 | -0,160 | - |
| 28,700 | 0,200 | -0,300 | - |
| 31,600 | 0,150 | -0,350 | - |
| 34,500 | 0,250 | -0,250 | - |
| 37,400 | 0,500 | 0,000 | - |
| 40,300 | 0,770 | 0,270 | - |
| 43,200 | 0,910 | 0,410 | Support 4 |
| 45,137 | 0,850 | 0,350 | - |
| 47,075 | 0,733 | 0,233 | - |
| 49,400 | 0,584 | 0,084 | Active anchorage |
| m | m | m | - |

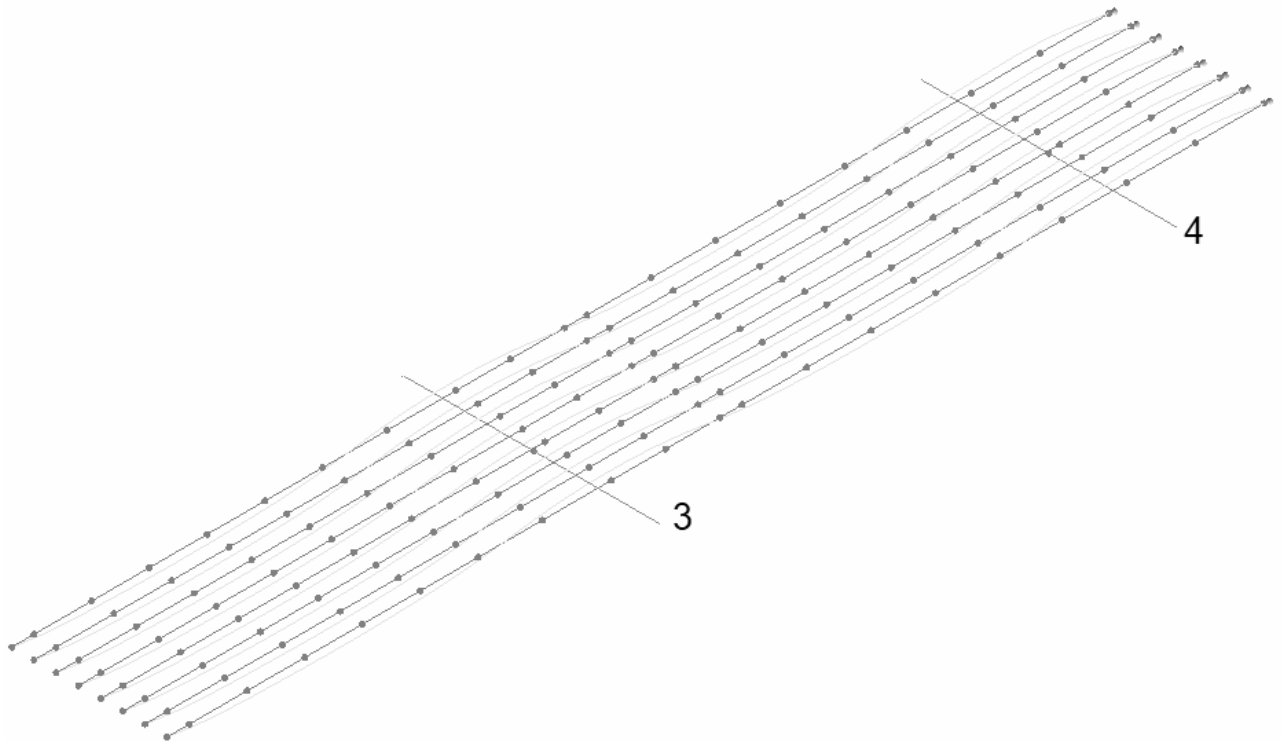
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:69 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:70 |
| | | Date : | Created : |

Spread sheet input for KG 3:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,584 | 0,084 | Passive anchorage |
| 1,550 | 0,485 | -0,015 | - |
| 5,425 | 0,282 | -0,218 | - |
| 9,300 | 0,159 | -0,341 | - |
| 13,175 | 0,195 | -0,305 | - |
| 17,050 | 0,430 | -0,070 | - |
| 20,925 | 0,670 | 0,170 | - |
| 24,800 | 0,900 | 0,400 | Support 5 |
| 28,675 | 0,714 | 0,214 | - |
| 32,550 | 0,500 | 0,000 | - |
| 36,425 | 0,203 | -0,297 | - |
| 40,300 | 0,159 | -0,341 | - |
| 44,175 | 0,256 | -0,244 | - |
| 48,050 | 0,425 | -0,075 | - |
| 51,925 | 0,670 | 0,170 | - |
| 55,800 | 0,880 | 0,380 | Support 6 |
| 58,925 | 0,870 | 0,370 | - |
| 60,800 | 0,750 | 0,250 | Active anchorage |
| m | m | m | - |

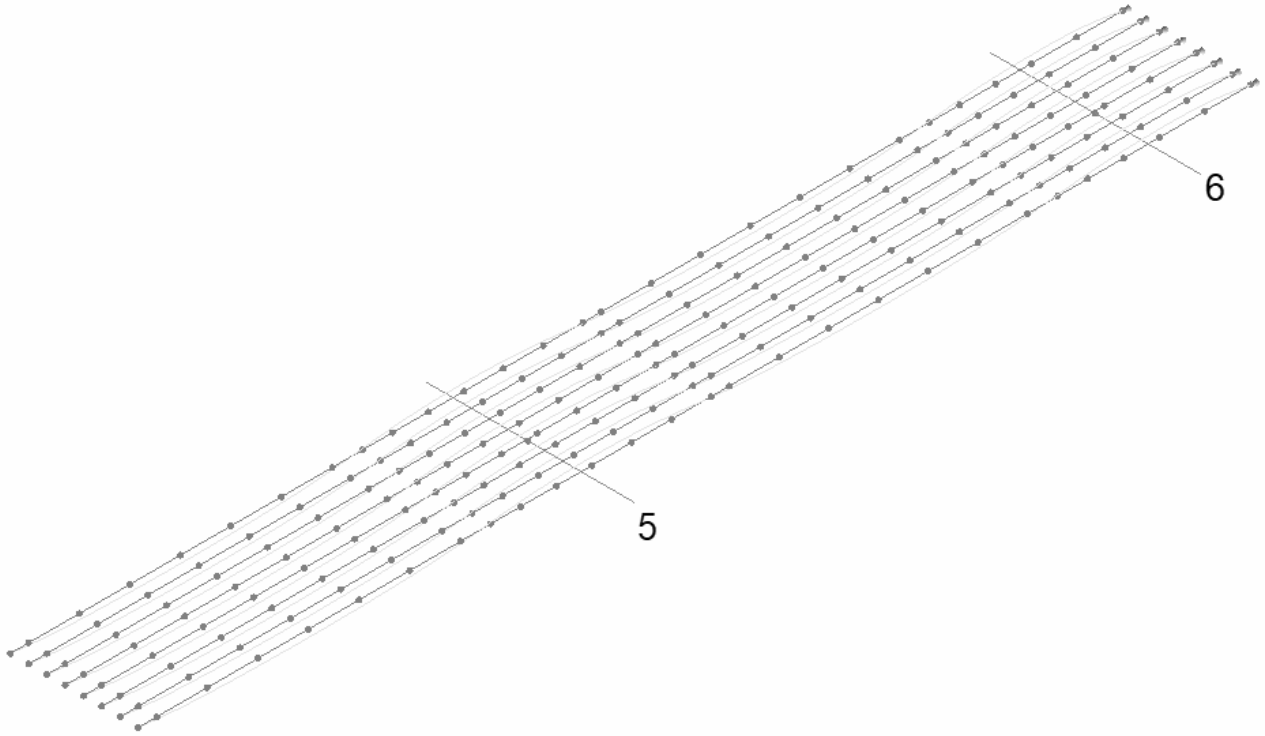
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:71 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:72 |
| | | Date : | Created : |

Spread sheet input for KG 4:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,750 | 0,250 | Passive anchorage |
| 1,250 | 0,543 | 0,043 | = 2/8 |
| 4,375 | 0,250 | -0,250 | - |
| 7,500 | 0,150 | -0,350 | - |
| 10,625 | 0,200 | -0,300 | - |
| 13,750 | 0,340 | -0,160 | - |
| 16,875 | 0,600 | 0,100 | - |
| 20,000 | 0,870 | 0,370 | Support 7 |
| 21,562 | 0,798 | 0,298 | - |
| 23,125 | 0,650 | 0,150 | - |
| 25,000 | 0,490 | -0,010 | - |
| 26,250 | 0,380 | -0,120 | - |
| 29,375 | 0,170 | -0,330 | - |
| 32,500 | 0,090 | -0,410 | - |
| 35,625 | 0,170 | -0,330 | - |
| 38,750 | 0,370 | -0,130 | - |
| 41,875 | 0,650 | 0,150 | - |
| 45,000 | 0,850 | 0,350 | Support 8 |
| 46,218 | 0,800 | 0,300 | - |
| 47,437 | 0,660 | 0,160 | - |
| 48,900 | 0,505 | 0,005 | Active anchorage |

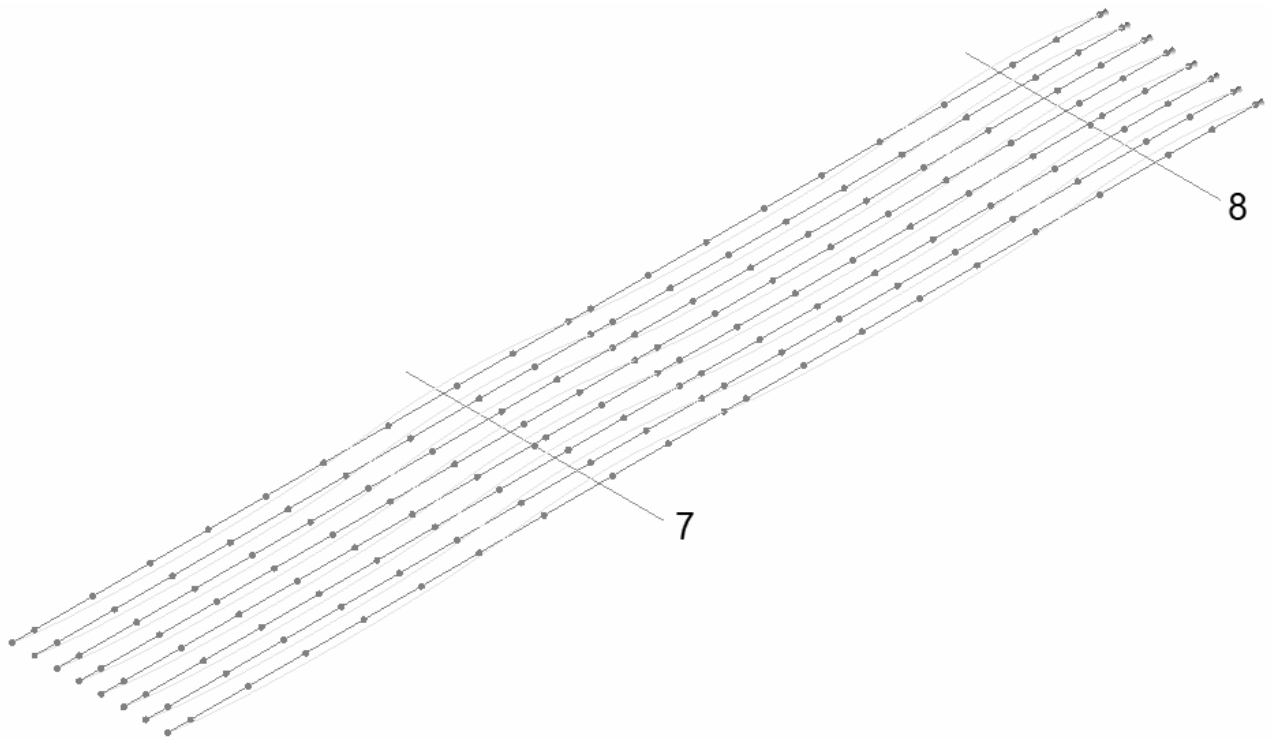
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:73 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:74 |
| | | Date : | Created : |

Spread sheet input for KG 5:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 0 | 0,505 | | 0,005 | Passive anchorage |
| 0,975 | 0,400 | | -0,100 | - |
| 3,396 | 0,270 | | -0,230 | - |
| 5,817 | 0,200 | | -0,300 | - |
| 8,237 | 0,220 | | -0,280 | - |
| 10,658 | 0,300 | → | -0,200 | - |
| 13,079 | 0,400 | | -0,100 | - |
| 15,500 | 0,505 | | 0,005 | Support 9 |
| 15,800 | 0,510 | | 0,010 | Active anchorage |
| m | m | | m | - |

Offset distance from end 1 (start): 0 m

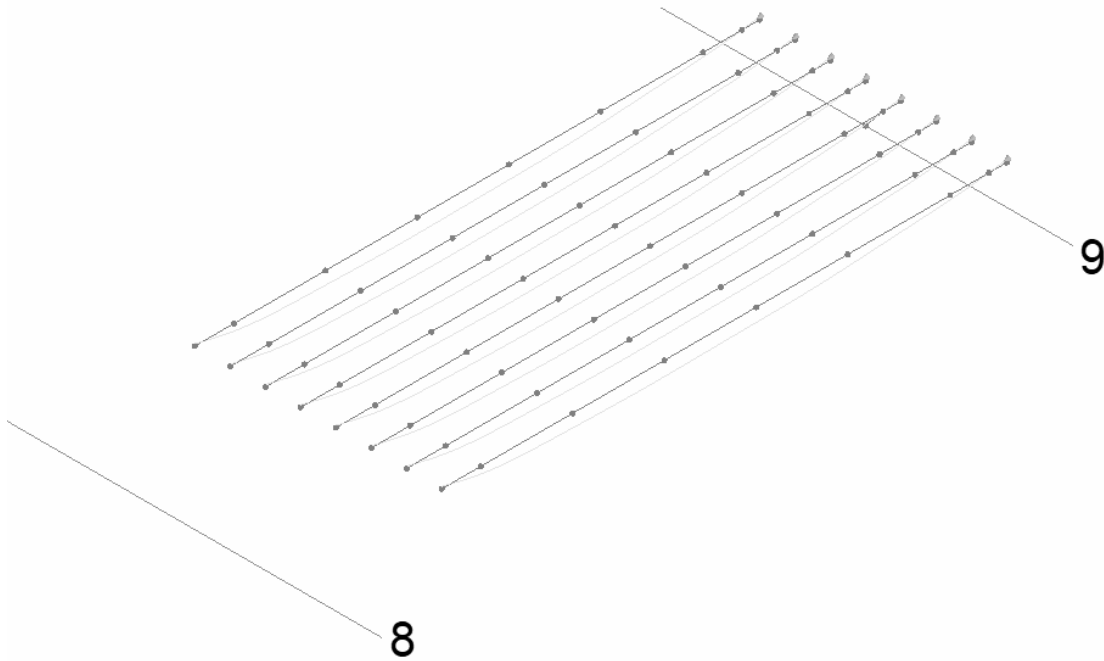
Jacking at end 1 (start): no

Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:75 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beam | No of cables |
|------|--------------|
| LB 1 | 1 |
| LB 2 | 1 |
| LB 3 | 1 |
| LB 4 | 1 |
| LB 5 | 1 |
| LB 6 | 1 |
| LB 7 | 1 |
| LB 8 | 1 |
| - | pcs |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:76 |
| | | Date : | Created : |

Spread sheet input for KG 6:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,491 | -0,009 | Passive anchorage |
| 0,300 | 0,482 | -0,018 | Support 1 |
| 1,512 | 0,445 | -0,055 | - |
| 2,725 | 0,400 | -0,100 | - |
| 5,150 | 0,300 | -0,200 | - |
| 7,575 | 0,220 | -0,280 | - |
| 10,000 | 0,200 | -0,300 | - |
| 12,425 | 0,270 | -0,230 | - |
| 14,850 | 0,400 | -0,100 | - |
| 17,275 | 0,660 | 0,160 | Support 2 |
| 19,700 | 0,890 | 0,390 | - |
| 21,262 | 0,790 | 0,290 | - |
| 22,825 | 0,650 | 0,150 | - |
| 24,700 | 0,480 | -0,020 | - |
| 25,950 | 0,370 | -0,130 | - |
| 29,075 | 0,170 | -0,330 | - |
| 32,200 | 0,090 | -0,410 | - |
| 35,325 | 0,170 | -0,330 | - |
| 38,450 | 0,380 | -0,120 | - |
| 41,575 | 0,650 | 0,150 | - |
| 44,700 | 0,850 | 0,350 | Support 3 |
| 46,150 | 0,730 | 0,230 | - |
| 47,600 | 0,600 | 0,100 | - |
| 49,600 | 0,420 | -0,080 | Active anchorage |
| m | m | m | - |

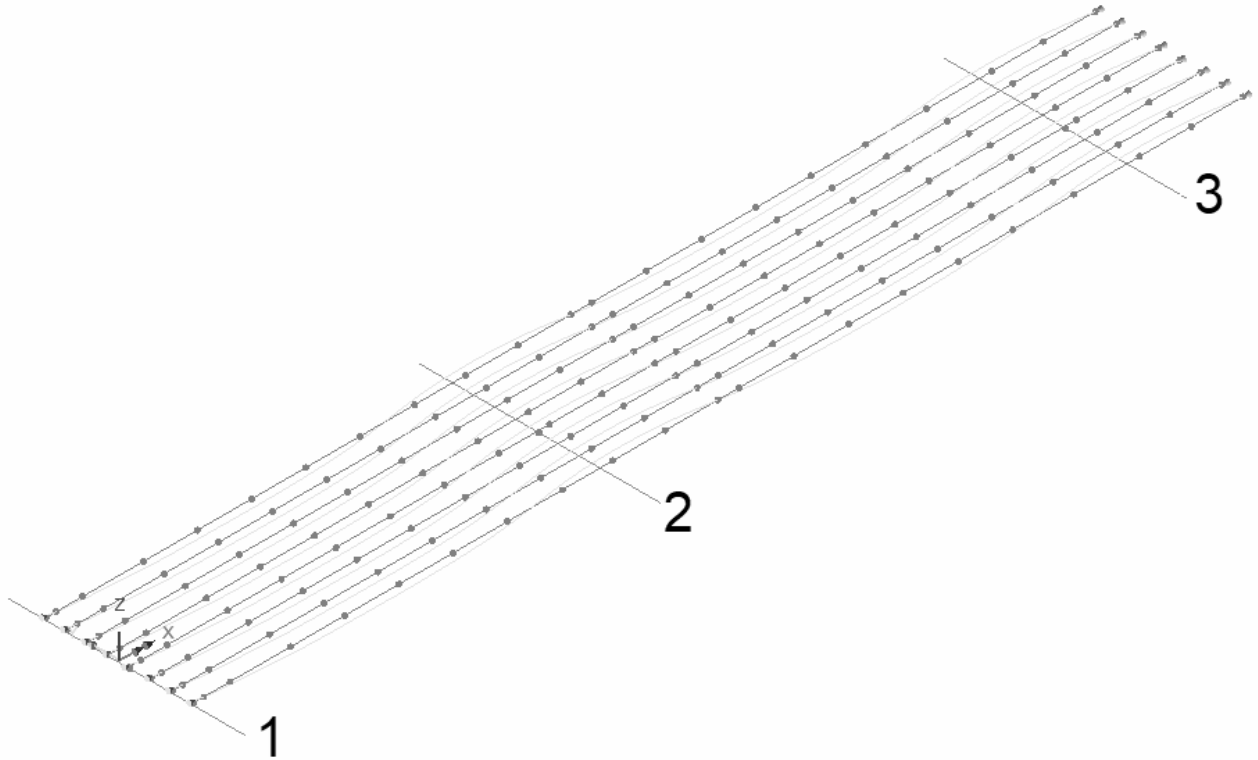
Offset distance from end 1 (start): 0.2 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:77 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beam | No of cables |
|------|--------------|
| LB 1 | 1 |
| LB 2 | 1 |
| LB 3 | 1 |
| LB 4 | 1 |
| LB 5 | 1 |
| LB 6 | 1 |
| LB 7 | 1 |
| LB 8 | 1 |
| - | pcs |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:78 |
| | | Date : | Created : |

Spread sheet input for KG 7:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,420 | -0,080 | Passive anchorage |
| 0,900 | 0,340 | -0,160 | - |
| 3,800 | 0,200 | -0,300 | - |
| 6,700 | 0,150 | -0,350 | - |
| 9,600 | 0,250 | -0,250 | - |
| 12,500 | 0,500 | 0 | - |
| 15,400 | 0,770 | 0,270 | - |
| 18,300 | 0,910 | 0,410 | Support 4 |
| 22,175 | 0,733 | 0,233 | - |
| 26,050 | 0,468 | -0,032 | - |
| 29,925 | 0,218 | -0,282 | - |
| 33,800 | 0,133 | -0,367 | - |
| 37,675 | 0,180 | -0,320 | - |
| 39,613 | 0,288 | -0,212 | - |
| 41,550 | 0,430 | -0,070 | - |
| 45,425 | 0,670 | 0,170 | - |
| 49,300 | 0,900 | 0,400 | Support 5 |
| 53,175 | 0,714 | 0,214 | - |
| 55,112 | 0,605 | 0,105 | - |
| 55,800 | 0,569 | 0,069 | Active anchorage |
| m | m | m | - |

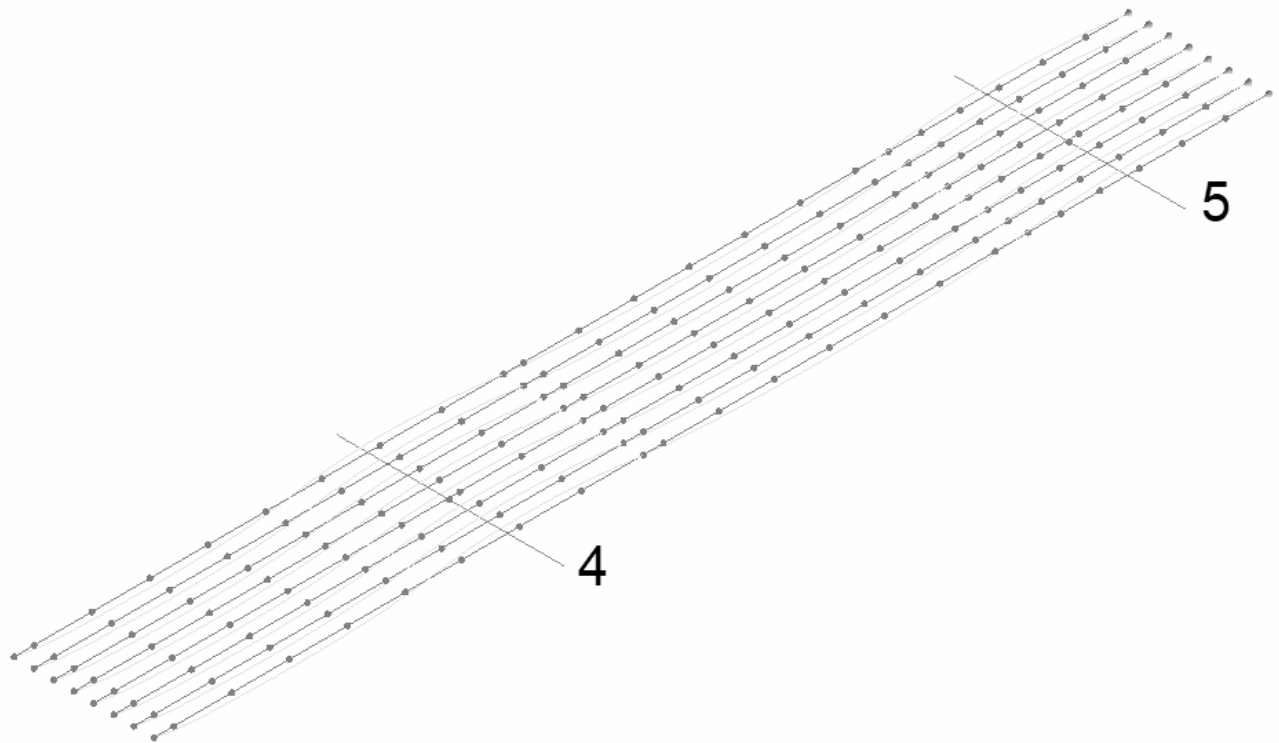
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:79 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:80 |
| | | Date : | Created : |

Spread sheet input for KG 8:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 0 | 0,569 | | 0,069 | Passive anchorage |
| 1,250 | 0,478 | | -0,022 | - |
| 5,125 | 0,173 | | -0,327 | - |
| 9,000 | 0,133 | | -0,367 | - |
| 12,875 | 0,218 | | -0,282 | - |
| 16,750 | 0,410 | → | -0,090 | - |
| 20,625 | 0,670 | | 0,170 | - |
| 24,500 | 0,880 | | 0,380 | Support 6 |
| 27,625 | 0,834 | | 0,334 | - |
| 30,750 | 0,461 | | -0,039 | - |
| 33,875 | 0,250 | | -0,250 | - |
| 37,000 | 0,150 | | -0,350 | - |
| 40,125 | 0,200 | | -0,300 | - |
| 43,250 | 0,340 | | -0,160 | - |
| 46,375 | 0,600 | | 0,100 | - |
| 49,500 | 0,870 | | 0,370 | Support 7 |
| 52,625 | 0,650 | | 0,150 | - |
| 54,500 | 0,490 | | -0,010 | - |
| m | m | | m | - |

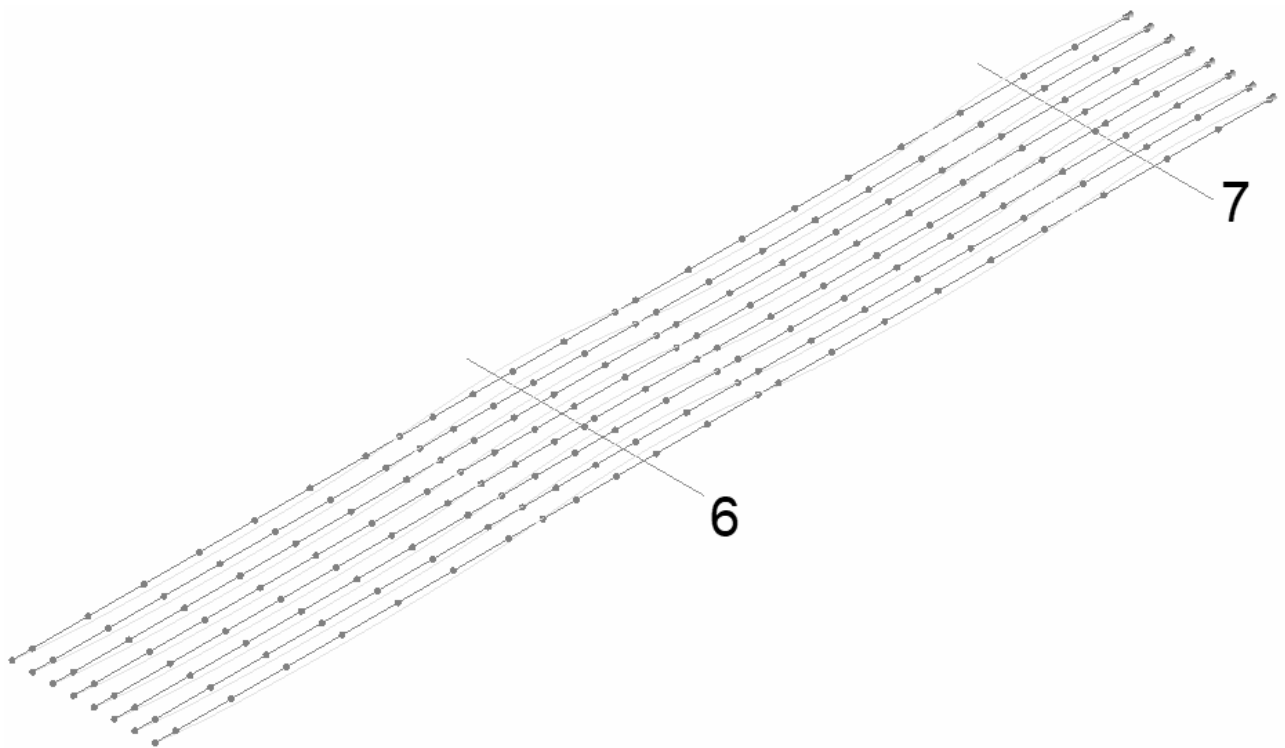
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:81 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:82 |
| | | Date : | Created : |

Spread sheet input for KG 9:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,490 | -0,010 | Passive anchorage |
| 1,250 | 0,380 | -0,120 | - |
| 4,375 | 0,170 | -0,330 | - |
| 7,500 | 0,090 | -0,410 | - |
| 10,625 | 0,170 | -0,330 | - |
| 13,750 | 0,370 | -0,130 | - |
| 16,875 | 0,650 | 0,150 | - |
| 20,000 | 0,850 | 0,350 | Support 8 |
| 21,218 | 0,800 | 0,300 | - |
| 22,437 | 0,660 | 0,160 | - |
| 23,900 | 0,505 | 0,005 | - |
| 24,875 | 0,400 | -0,100 | - |
| 27,296 | 0,270 | -0,230 | - |
| 29,717 | 0,200 | -0,300 | - |
| 32,137 | 0,220 | -0,280 | - |
| 34,558 | 0,300 | -0,200 | - |
| 36,979 | 0,400 | -0,100 | - |
| 39,400 | 0,500 | 0 | Support t9 |
| 39,700 | 0,510 | 0,010 | Active anchorage |
| m | m | m | - |

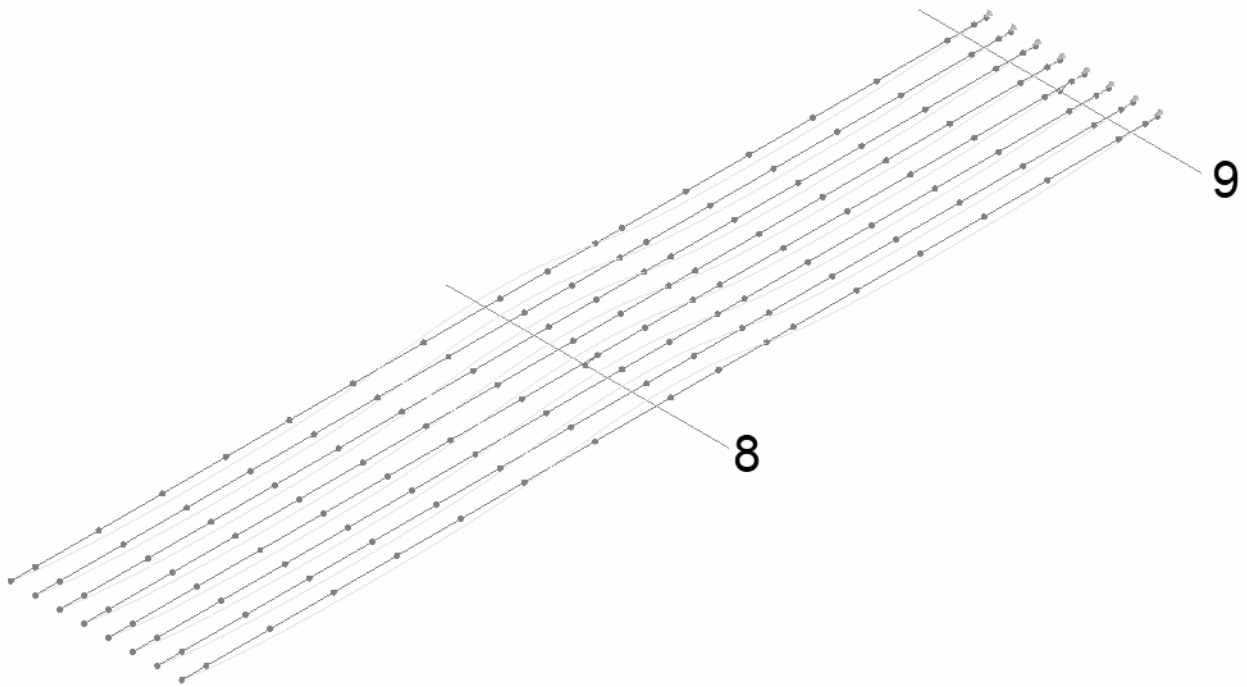
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
 Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:83 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 1 | "Assignment 2" |
| LB 3 | 1 | "Assignment 3" |
| LB 4 | 1 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 1 | "Assignment 6" |
| LB 7 | 1 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:84 |
| | | Date : | Created : |

Spread sheet input for KG 10:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 39,100 | 0,450 | | -0,050 | Passive anchorage |
| 40,300 | 0,665 | | 0,165 | - |
| 43,200 | 0,805 | | 0,305 | Support 4 |
| 45,137 | 0,680 | → | 0,180 | - |
| 47,075 | 0,440 | | -0,060 | - |
| 49,400 | 0,300 | | -0,200 | Active anchorage |
| m | m | | m | - |

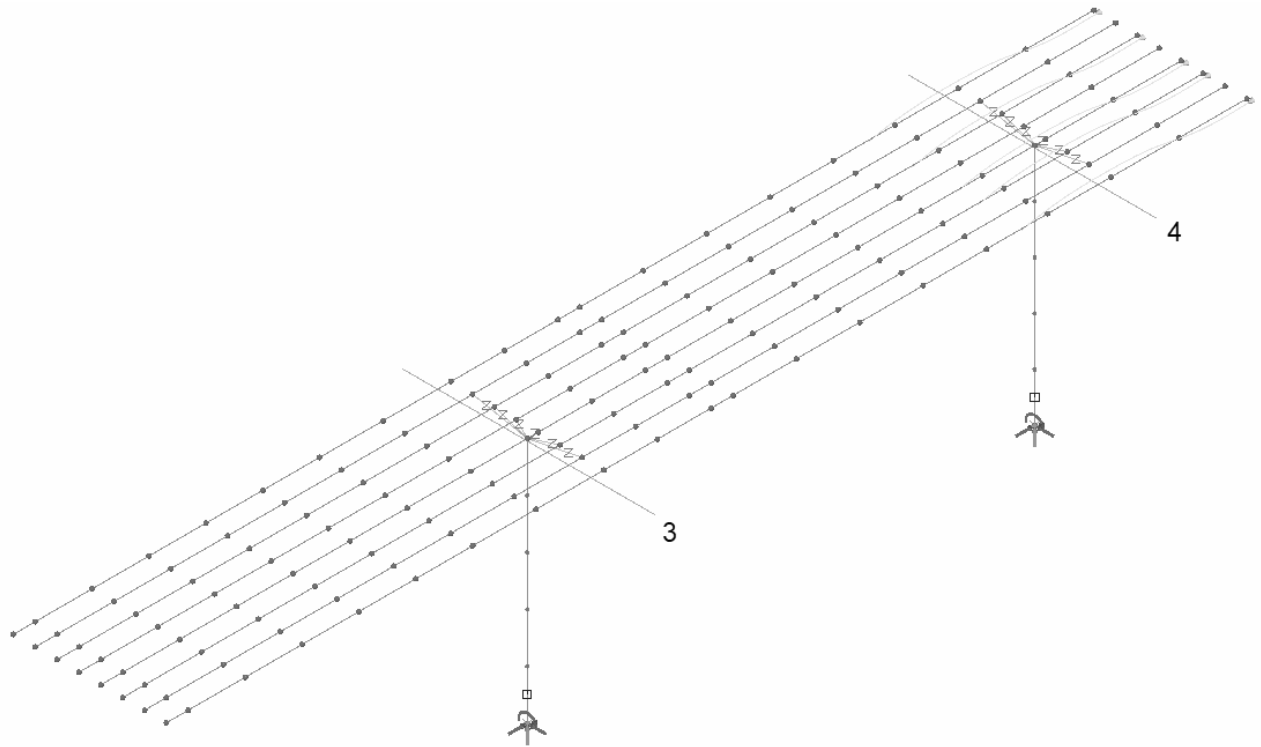
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:85 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 0 | - |
| LB 3 | 1 | "Assignment 2" |
| LB 4 | 0 | - |
| LB 5 | 1 | "Assignment 3" |
| LB 6 | 1 | "Assignment 4" |
| LB 7 | 0 | - |
| LB 8 | 1 | "Assignment 5" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:86 |
| | | Date : | Created : |

Spread sheet input for KG 11:

| x(+) | y(+) | z(+) | Remark |
|--------|-------|--------|-------------------|
| 0 | 0,300 | -0,200 | Passive anchorage |
| 1,550 | 0,230 | -0,270 | - |
| 5,425 | 0,130 | -0,370 | - |
| 9,300 | 0,080 | -0,420 | - |
| 13,175 | 0,090 | -0,410 | - |
| 17,050 | 0,275 | -0,225 | - |
| 20,925 | 0,540 | 0,040 | - |
| 24,800 | 0,795 | 0,295 | Support 5 |
| 28,675 | 0,470 | -0,030 | - |
| 32,550 | 0,215 | -0,285 | - |
| 36,425 | 0,080 | -0,420 | - |
| 40,300 | 0,080 | -0,420 | - |
| 44,175 | 0,140 | -0,360 | - |
| 48,050 | 0,320 | -0,180 | - |
| 51,925 | 0,540 | 0,040 | - |
| 55,800 | 0,750 | 0,250 | Support 6 |
| 58,925 | 0,555 | 0,055 | - |
| 60,800 | 0,410 | -0,090 | Active anchorage |
| m | m | m | - |

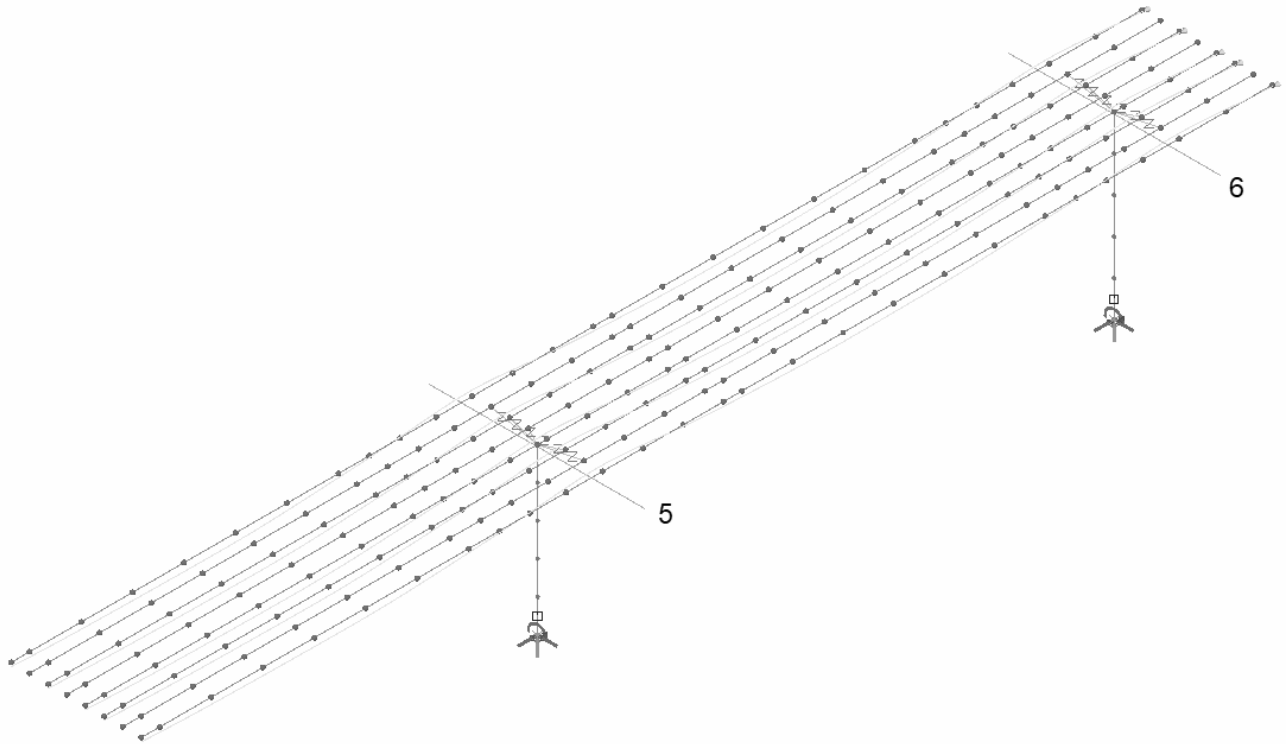
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:87 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 0 | - |
| LB 3 | 1 | "Assignment 2" |
| LB 4 | 0 | - |
| LB 5 | 1 | "Assignment 3" |
| LB 6 | 1 | "Assignment 4" |
| LB 7 | 0 | - |
| LB 8 | 1 | "Assignment 5" |
| - | pcs | - |

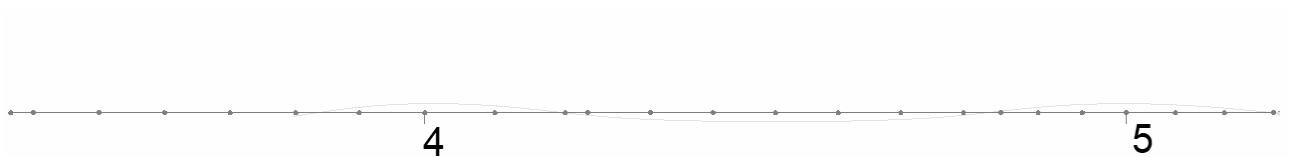
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:88 |
| | | Date : | Created : |

Spread sheet input for KG 12:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 14,200 | 0,450 | | -0,050 | Passive anchorage |
| 15,400 | 0,665 | | 0,165 | - |
| 18,300 | 0,805 | | 0,305 | Support4 |
| 22,175 | 0,440 | | -0,060 | - |
| 26,050 | 0,230 | → | -0,270 | - |
| 29,925 | 0,130 | | -0,370 | - |
| 33,800 | 0,080 | | -0,420 | - |
| 37,675 | 0,090 | | -0,410 | - |
| 41,550 | 0,275 | | -0,225 | - |
| 45,425 | 0,540 | | 0,040 | - |
| 49,300 | 0,795 | | 0,295 | Support5 |
| 53,175 | 0,470 | | -0,030 | - |
| 55,800 | 0,285 | | -0,215 | Active anchorage |
| m | m | | m | - |

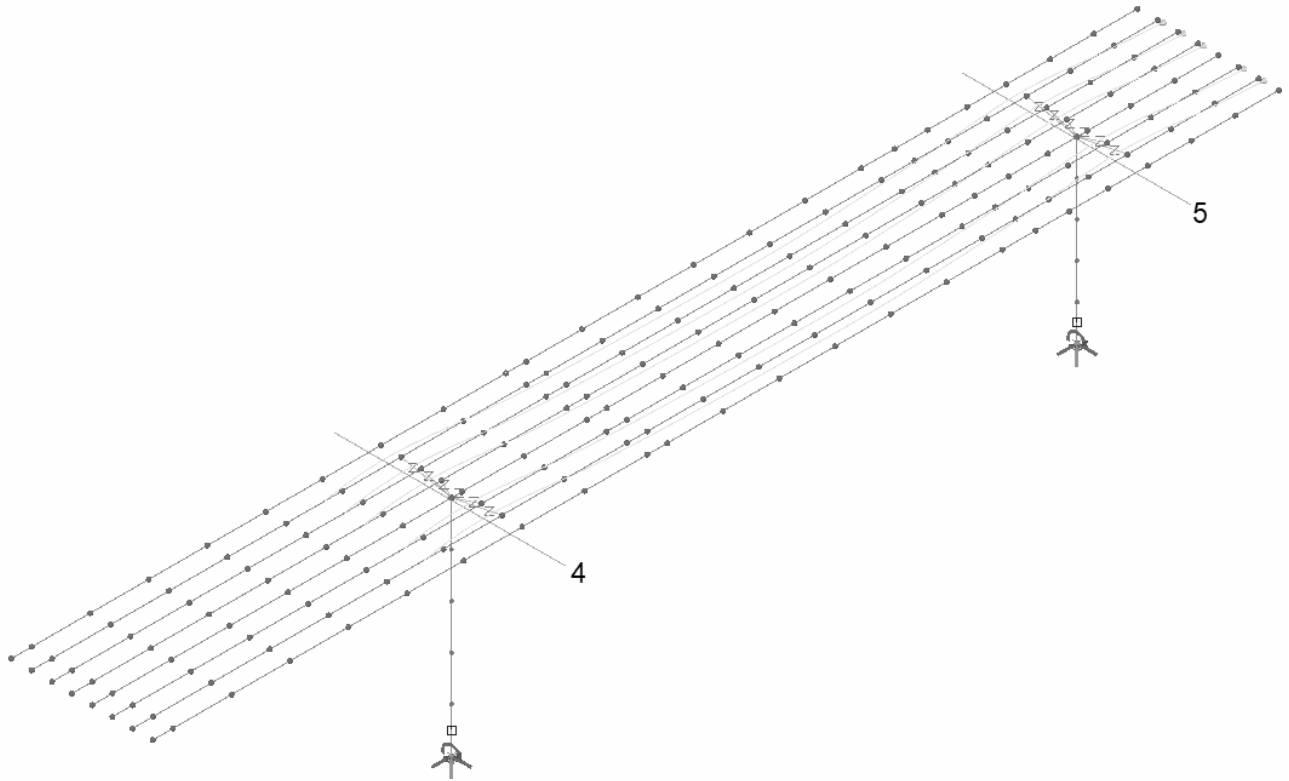
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:89 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 0 | - |
| LB 2 | 1 | "Assignment 1" |
| LB 3 | 1 | "Assignment 2" |
| LB 4 | 1 | "Assignment 3" |
| LB 5 | 0 | - |
| LB 6 | 1 | "Assignment 4" |
| LB 7 | 1 | "Assignment 5" |
| LB 8 | 0 | - |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:90 |
| | | Date : | Created : |

Spread sheet input for KG 13:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 31,300 | 0,285 | | -0,215 | Passive anchorage |
| 32,550 | 0,215 | | -0,285 | - |
| 36,425 | 0,080 | → | -0,420 | - |
| 40,300 | 0,080 | | -0,420 | - |
| 44,175 | 0,140 | | -0,360 | - |
| 48,050 | 0,320 | | -0,180 | - |
| 51,925 | 0,540 | | 0,040 | - |
| 55,800 | 0,750 | | 0,250 | Support 6 |
| 58,925 | 0,555 | | 0,055 | - |
| 60,800 | 0,410 | | -0,090 | Active anchorage |
| m | m | | m | - |

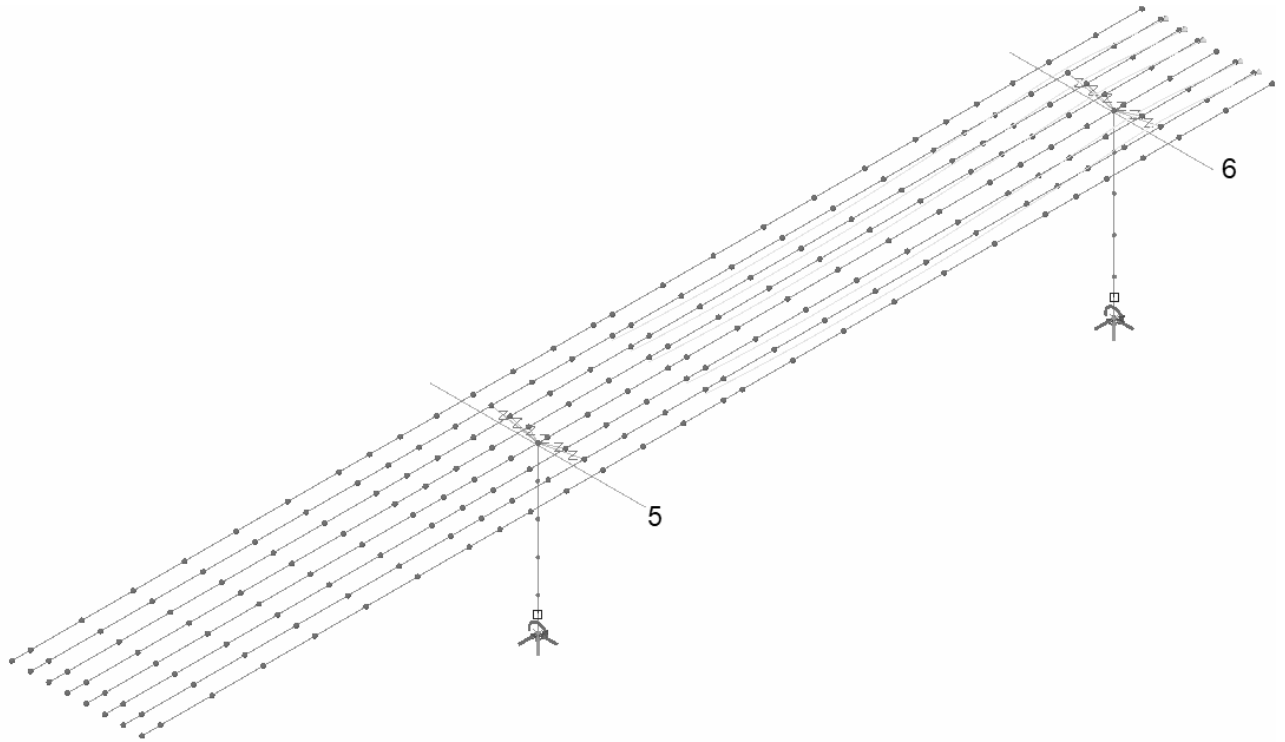
Offset distance from end 1 (start): 0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:91 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 0 | - |
| LB 2 | 1 | "Assignment 1" |
| LB 3 | 1 | "Assignment 2" |
| LB 4 | 1 | "Assignment 3" |
| LB 5 | 0 | - |
| LB 6 | 1 | "Assignment 4" |
| LB 7 | 1 | "Assignment 5" |
| LB 8 | 0 | - |
| - | pcs | - |

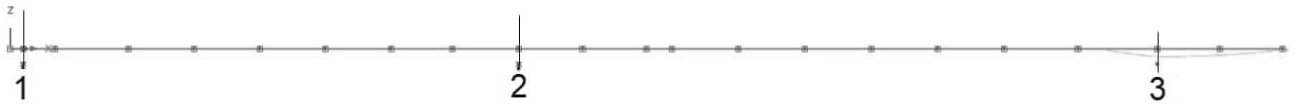
| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:92 |
| | | Date : | Created : |

Spread sheet input for KG 14:

| x(+) | y(+) | | z(+) | Remark |
|--------|-------|---|--------|-------------------|
| 18,000 | 0,450 | | -0,050 | Passive anchorage |
| 20,000 | 0,200 | | -0,300 | Support 3 |
| 21,450 | 0,210 | → | -0,290 | - |
| 22,900 | 0,270 | | -0,230 | - |
| 24,900 | 0,455 | | -0,045 | Active anchorage |
| m | m | | m | - |

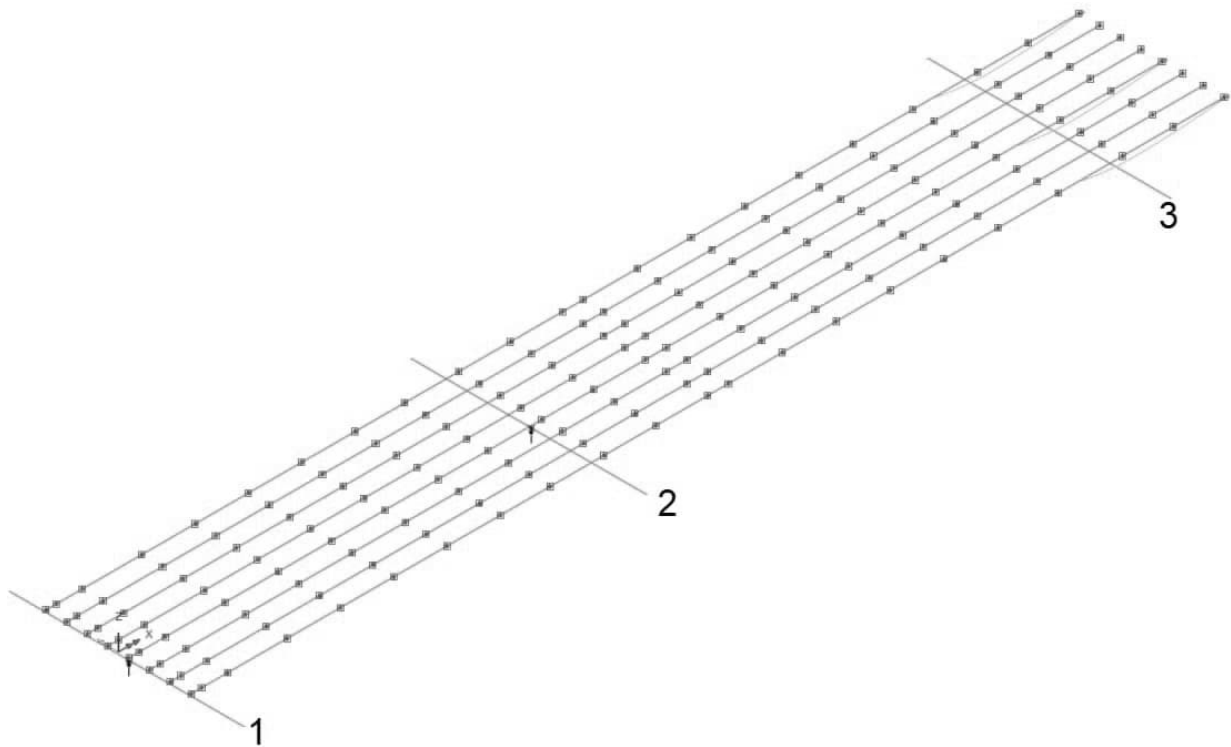
Offset distance from end 1 (start): 18.0 m

Jacking at end 1 (start): no
Jacking at end 2 (end): yes



Elevation

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:93 |
| | | Date : | Created : |



3D-view

Disitribution of cables above.

| Beams | Number of cables | Designation |
|-------|------------------|----------------|
| LB 1 | 1 | "Assignment 1" |
| LB 2 | 0 | "Assignment 2" |
| LB 3 | 0 | "Assignment 3" |
| LB 4 | 0 | "Assignment 4" |
| LB 5 | 1 | "Assignment 5" |
| LB 6 | 0 | "Assignment 6" |
| LB 7 | 0 | "Assignment 7" |
| LB 8 | 1 | "Assignment 8" |
| - | pcs | - |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:94 |
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3.8.4.3 Tendon properties

Calculation of 'long term losses' is not done with FEM program but separately. Hence 'Include: No' in the table below.

Tendon Properties ✕

Design: EN1992-1-1:2004 / 2014 Eurocode 2 ▾

Losses based on time inputs and calculated stresses
 Approximate losses, requiring input of estimated stresses

Elastic shortening

Based on design code Set losses...
 User-defined Set losses...
 Ignore effects

| General | | |
|---|---------|-------------------|
| Tendon area | 1,11E3 | mm ² |
| Modulus of elasticity for tendon | 200,0E6 | kN/m ² |
| Concrete stress at transfer | 10,0E3 | kN/m ² |
| Instantaneous losses | | |
| Modulus of elasticity of concrete at transfer | 32,0E6 | kN/m ² |
| Unintentional angular displacement | 3,0E-3 | rad/m |
| Duct friction coefficient | 0,25 | |
| Long term losses | | |
| Include | No | |

Name: VSL 12-13 ▾ (1)

Friction coefficients during tensioning of cables:

$$P_{(x)} = P_o \cdot e^{-\mu(\alpha+k \cdot x)}$$

$$\mu = 0.25$$

$$k = 0.003 \frac{rad}{m}$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:95 |
| | | Date : | Created : |

3.8.5 Load combination

Load combination basis PT-T0E:
(Static system "Analysis 1" → "Analysis 8")

| Load case | Factor |
|-----------|--------|
| KG 1-1 | 1.00 |
| KG 2-3 | 1.00 |
| KG 3-5 | 1.00 |
| KG 4-7 | 1.00 |
| KG 5-8 | 1.00 |
| KG 6-2 | 1.00 |
| KG 7-4 | 1.00 |
| KG 8-6 | 1.00 |
| KG 9-8 | 1.00 |
| KG 10-3 | 1.00 |
| KG 11-5 | 1.00 |
| KG 12-4 | 1.00 |
| KG 13-5 | 1.00 |
| KG 14-2 | 1.00 |

Load combination basis PT-T0C:
(Static system "Analysis 9")

| Load case | Factor |
|-----------|--------|
| KG 1 | 1.00 |
| KG 2 | 1.00 |
| KG 3 | 1.00 |
| KG 4 | 1.00 |
| KG 5 | 1.00 |
| KG 6 | 1.00 |
| KG 7 | 1.00 |
| KG 8 | 1.00 |
| KG 9 | 1.00 |
| KG 10 | 1.00 |
| KG 11 | 1.00 |
| KG 12 | 1.00 |
| KG 13 | 1.00 |
| KG 14 | 1.00 |

Basic load combination PT-T0:

| Load case | Factor |
|-----------|--------|
| PT-T0E | 0.53 |
| PT-T0C | 0.47 |

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:96 |
| | | Date : | Created : |

3.9 LOAD COMBINATIONS

Verification of load capacity shall be carried out for several limit states as detailed in this section.

Fatigue Limit State:

The risk of fatigue according to the partial factor method is checked using equation 6.69 provided in document SS-EN 1992-1-1.

Other Limit States:

For other limit states, section 6.4.3 of EN-1990 is applied.

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:97 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.14.1 Ultimate Limit States (ULS)

When checking the ultimate limit state, the load factors vary depending on the type of failure as detailed below:

STR: Verification of structural bearing capacity

GEO: Verification of geotechnical bearing capacity

For checking the ultimate limit state, TRVNFRA-00227 section 7.1.6.3 specifies requirements for load combinations as follows.

Design Method D2 (Set B):

Design Method D2 (Set B) according to TSFS 2018:57 Table 4.4 shall be applied for the structural bearing capacity of the construction (STR; SK 3).

Design Method is defined according to EN-1990 equations 6.10a and 6.10b as detailed below.

$$E_{Sd}^{10a} = \sum_{j \geq 1} \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot \psi_{0,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-A} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

$$E_{Sd}^{10b} = \sum_{j \geq 1} \xi_j \cdot \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-B} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

Equation 6.10a refers to the (ULS-A) case where the permanent loads are dominant, usually during the construction phase.

Equation 6.10b refers to the (ULS-B) case where the variable loads are dominant.

Design method 2 (set B) according to TSFS 2018:57 table 4.4 shall be applied for the structural capacity (STR; SK3).

A1 (construction loads)

All load factors are greater than set C.

A2 (geotechnical loads)

- Load coefficient earth pressure:

$$\psi \gamma_{ULS-A} = \gamma_d \cdot 1.35 \cdot \eta_{sup,G} = 1.0 \cdot 0.89 \cdot 1.35 \cdot 1.1 = 1.49 \quad \leftarrow \text{dimensioning}$$

$$\psi \gamma_{ULS-B} = \gamma_d \cdot 0.89 \cdot 1.35 \cdot \eta_{sup,G} = 1.0 \cdot 0.89 \cdot 1.35 \cdot 1.1 = 1.33$$

- Load coefficient surcharge:

$$\psi \gamma_{ULS-A} = \gamma_d \cdot \psi_0 \cdot 1.50 = 1.0 \cdot 0.75 \cdot 1.50 = 1.13$$

$$\psi \gamma_{ULS-B} = \gamma_d \cdot 1.50 = 1.0 \cdot 1.50 = 1.50 \quad \leftarrow \text{dimensioning}$$

| | | | |
|--|---------------------------------------|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS | Status : | Page: A3:98 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

3.14.1 Ultimate Limit States (ULS)

When checking the ultimate limit state, the load factors vary depending on the type of failure as detailed below:

STR: Verification of structural bearing capacity

GEO: Verification of geotechnical bearing capacity

For checking the ultimate limit state, TRVNFRA-00227 section 7.1.6.3 specifies requirements for load combinations as follows.

Design Method D2 (Set B):

Design Method D2 (Set B) according to TSFS 2018:57 Table 4.4 shall be applied for the structural bearing capacity of the construction (STR; SK 3).

Design Method is defined according to EN-1990 equations 6.10a and 6.10b as detailed below.

$$E_{Sd}^{10a} = \sum_{j \geq 1} \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot \psi_{0,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-A} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

$$E_{Sd}^{10b} = \sum_{j \geq 1} \xi_j \cdot \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-B} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

Equation 6.10a refers to the (ULS-A) case where the permanent loads are dominant, usually during the construction phase.

Equation 6.10b refers to the (ULS-B) case where the variable loads are dominant.

Design method 2 (set B) according to TSFS 2018:57 table 4.4 shall be applied for the structural capacity (STR; SK3).

A1 (construction loads)

All load factors are greater than set C.

A2 (geotechnical loads)

- Load coefficient earth pressure:

$$\psi \gamma_{ULS-A} = \gamma_d \cdot 1.35 \cdot \eta_{sup,G} = 1.0 \cdot 0.89 \cdot 1.35 \cdot 1.1 = 1.49 \quad \leftarrow \text{dimensioning}$$

$$\psi \gamma_{ULS-B} = \gamma_d \cdot 0.89 \cdot 1.35 \cdot \eta_{sup,G} = 1.0 \cdot 0.89 \cdot 1.35 \cdot 1.1 = 1.33$$

- Load coefficient surcharge:

$$\psi \gamma_{ULS-A} = \gamma_d \cdot \psi_0 \cdot 1.50 = 1.0 \cdot 0.75 \cdot 1.50 = 1.13$$

$$\psi \gamma_{ULS-B} = \gamma_d \cdot 1.50 = 1.0 \cdot 1.50 = 1.50 \quad \leftarrow \text{dimensioning}$$

| | | | |
|--|---|----------|----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:99 |
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Design method D3 (set C):

Design method D3 (set C) according to TSFS 2018:57 table 4.5 shall be applied for determining geotechnical bearing capacity (GEO; SK 2).

The design method is defined according to EN-1990 equation 6.10a and 6.10b as presented below.

$$E_{Sd}^{10a} = \sum_{j \geq 1} \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot \psi_{0,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-GA} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

$$E_{Sd}^{10b} = \sum_{j \geq 1} \xi_j \cdot \gamma_{G,j} \cdot G_{k,j} + \gamma_{Q,1} \cdot Q_{k,1} + \sum_{i > 1} \gamma_{Q,i} \cdot \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{ULS-GB} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

Equation 6.10a refers to the (ULS-A) case where the permanent loads are dominant, usually during the construction phase.

Equation 6.10b (ULS-B) refers to the case where the variable loads are dominant.

Design method 3 (set C) according to TSFS 2018:57 table 4.5 shall be applied for determining geotechnical bearing capacity (GEO).

A1 (construction loads)

All load factors are less than set B.

A2 (geotechnical loads)

• Load coefficient earth pressure: $\psi \gamma_{jord} = \gamma_d \cdot 1.1 \cdot \eta_{sup.G} = 0.91 \cdot 1.1 \cdot 1.1 = 1.10$

• Load coefficient surcharge: $\psi \gamma_{over} = \gamma_d \cdot 1.40 = 0.91 \cdot 1.40 = 1.27$

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:100 |
| | | Date : | Created : |

Load combination smart ULS-PERM:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|------------------------------|
| EGEN | 1.00 | 1.20 |
| BELÄGG | 1.00 | 1.20 |
| JORD | 1.00 | 1.20 |
| STOD | 0 | $1.2 \cdot f_{STOD} = 0.40$ |
| KRYMP | 0 | $1.2 \cdot s_{KRYMP} = 0.40$ |

Load combination smart ULS-VAR:

(Load cases to consider : 5 / Variable loadcases : 1)

| Load case | Permanent factor | Variable factor |
|-----------|------------------------|----------------------------|
| TRAFIK | 1.13 | 1.50 |
| BROMS | 1.13 | 1.50 |
| SIDO | 1.13 | 1.50 |
| TEMP | $0.90 f_{TEMP} = 0.70$ | $1.5 \cdot f_{TEMP} = 1.2$ |
| VIND | 0.45 | 1.50 |

For STR load case TEMP may be neglected, see SS-EN 1992-1-1 section 2.3.1.2(2).

Load combination smart ULS-0:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| ULS-PERM | 1.00 | 1.00 |
| ULS-VAR | 0 | 1.00 |

Load combination smart ULS:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| ULS-PERM | 1 | 0 |
| PT | 1 | 1.35 |
| ULS-VAR | 0 | 1 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:101 |
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3.14.2 Service state (SLS)

The serviceability limit state is divided into 3 load combinations depending on their duration. The load combinations are presented below.

| Load combination | Duration |
|------------------|-----------------|
| SLS:K | Characteristic |
| SLS:F | Frequent |
| SLS:Q | Quasi-permanent |

Load combination SLS:K according to EN 1990 eq. 6.14b is presented below.

$$E_{sd} = \sum_{j \geq 1} G_{k,j} + Q_{k,1} + \sum_{i > 1} \psi_{0,i} \cdot Q_{k,i} = \psi \gamma_{SLS,K} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

The truck combination SLS:F according to EN 1990 eq. 6.15b is presented below.

$$E_{sd} = \sum_{j \geq 1} G_{k,j} + \psi_1 \cdot Q_{k,1} + \sum_{i > 1} \psi_{2,i} \cdot Q_{k,i} = \psi \gamma_{SLS,2} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

Load combination SLS:Q according to EN 1990 eq. 6.16b is presented below.

$$E_{sd} = \sum_{j \geq 1} G_{k,j} + \sum_{i > 0} \psi_{2,i} \cdot Q_{k,i} = \psi \gamma_{SLS,Q} \cdot \left(\sum_{j > 1} G_{k,j} + \sum_{i > 1} Q_{k,i} \right)$$

In design, load factors belonging to equations 6.14a, 6.15b, and 6.16b are applied; for derivation, see page A3:137.

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:102 |
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| Nr | Load | | $\Psi\gamma_{SLS-K}$ | $\Psi\gamma_{SLS-F}$ | $\Psi\gamma_{SLS-Q}$ |
|----|------------------------|-----|----------------------|----------------------|----------------------|
| | <u>Permanent loads</u> | | | | |
| 1 | Egentyngd | max | 1,00 | 1,00 | 1,00 |
| | | min | 1,00 | 1,00 | 1,00 |
| 2 | Beläggning | max | 1,10 | 1,10 | 1,10 |
| | | min | 0,90 | 0,90 | 0,90 |
| 3 | Överfyllnad | max | 1,10 | 1,10 | 1,10 |
| | | min | 0,90 | 0,90 | 0,90 |
| 4 | Jordtryck | max | 1,10 | 1,10 | 1,10 |
| | | min | 0,90 | 0,90 | 0,90 |
| 5 | Vattentryck | max | 1,00 | 1,00 | 1,00 |
| | | min | 1,00 | 1,00 | 1,00 |
| 6 | Stödförskjutning | max | 1,00 | 1,00 | 1,00 |
| | | min | 1,00 | 1,00 | 1,00 |
| 7 | Krympning | max | 1,00 | 1,00 | 1,00 |
| | | min | 1,00 | 1,00 | 1,00 |
| 8 | Spännkraft | max | 1,00 | 1,00 | 1,00 |
| | | min | 1,00 | 1,00 | 1,00 |
| | <u>Variable loads</u> | | | | |
| | Lastmodell LM 1 : | | | | |
| 9 | Boggiesystem | | 0.75/1.00 | 0/0.75 | 0 |
| 10 | Utbredd last | | 0.40/1.00 | 0/0.40 | 0 |
| 11 | Bromskraft | | 0.56/0.75 | 0/0.56 | 0 |
| 12 | Sidokraft | | 0.56/0.75 | 0/0.56 | 0 |
| 13 | Centrifugalkraft | | 0.56/0.75 | 0/0.56 | 0 |
| | Lastmodell LM 2 : | | | | |
| 14 | Enstaka axellast | | 0.75/1.00 | 0/0.75 | 0 |
| | Typfordon EG A/B : | | | | |
| 15 | Typfordon EG A/B | | 0.75/1.00 | 0/0.75 | 0 |
| 20 | Bromskraft | | 0.56/0.75 | 0/0.56 | 0 |
| 22 | Sidokraft | | 0.56/0.75 | 0/0.56 | 0 |
| 22 | Centrifugalkraft | | 0.56/0.75 | 0/0.56 | 0 |
| 16 | Temperatur | | 0.60/1.00 | 0.50/0.60 | 0.50 |
| | Vindlaster: | | | | |
| 17 | Vindlast mot bro | | 0.30/1.00 | 0/0.30 | 0 |
| 18 | Vindlast mot trafik | | 0.30/1.00 | 0/0.30 | 0 |
| 19 | Överlast | | 0.75/1.00 | 0/0.75 | 0 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:103 |
| | | Date : | Created : |

Load combination smart SLS-PERM.:

| Loadcase | Permanent factor | Variable factor |
|----------|------------------|------------------------------|
| EGEN | 1.00 | 1.00 |
| BELÄGG | 0.90 | 1.20 |
| JORD | 0.90 | 1.20 |
| STOD | 0 | $1.0 \cdot f_{STOD} = 0.33$ |
| KRYMP | 0 | $1.0 \cdot f_{KRYMP} = 0.33$ |

Load combination smart SLS-K-VAR.:

(Load cases to consider : 5 / Variable loadcases : 1)

| Loadcase | Permanent factor | Variable factor |
|----------|------------------------|-----------------------------|
| TRAFIK | 0.75 | 1.00 |
| BROMS | 0.56 | 0.75 |
| SIDO | 0.56 | 0.75 |
| TEMP | $0.60 f_{TEMP} = 0.50$ | $1.0 \cdot f_{TEMP} = 0.80$ |
| VIND | 0.60 | 1.00 |

Load combination smart SLS-F-VAR.:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|------------------------|
| TRAFIK | 0 | 0.75 |
| BROMS | 0 | 0.56 |
| SIDO | 0 | 0.56 |
| TEMP | 0 | $0.60 f_{TEMP} = 0.50$ |
| VIND | 0 | 0.30 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:104 |
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Load combination smart SLS-K0:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| SLS-PERM | 1 | 1 |
| SLS-K-VAR | 0 | 1 |

Load combination smart SLS-K:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| SLS-PERM | 1 | 1 |
| PT | 1 | 1 |
| SLS-K-VAR | 0 | 1 |

Load combination smart SLS-F0:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| SLS-PERM | 1 | 1 |
| SLS-F-VAR | 0 | 1 |

Load combination smart SLS-F:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| SLS-PERM | 1 | 1 |
| PT | 1 | 1 |
| SLS-F-VAR | 0 | 1 |

Load combination smart SLS-Q0:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------------|
| SLS-PERM | 1 | 1 |
| TEMP | 0 | $0.50f_{TEMP} = 0.40$ |

Load combination smart SLS-Q:

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------------|
| SLS-PERM | 1 | 1 |
| PT | 1 | 1 |
| TEMP | 0 | $0.50f_{TEMP} = 0.40$ |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:105 |
| | | Date : | Created : |

3.14.3 Fatigue load combination

Fatigue is considered according to SS EN 1992-1-1, 6.8.4 and 6.8.6, and SS EN 1992-2, 6.8 and Appendix NN.

The risk of fatigue is checked using a simplified method, denoted as the λ -method.
Load combination according to equation SS-EN 1992-1-1 section 6.8.3 equation 6.69.

In this load combination, the traffic load is considered to consist of UTM, whereby other traffic loads are excluded.

$$E_{Sd} = \sum_{j \geq 1} G_{k,j} + P + \psi_{1,1} \cdot Q_{k,1} + \sum_{i > 1} \psi_{2,i} \cdot Q_{k,i} + Q_{fat} = \psi \gamma_{UTM} \cdot \left(\sum_{j \geq 1} G_{k,j} + P + \sum_{i \geq 1} Q_{k,i} + Q_{fat} \right)$$

Fatigue is considered according to SS EN 1992-1-1, 6.8.4 and 6.8.6, and SS EN 1992-2, 6.8 and Appendix NN.

The risk of fatigue is checked using a simplified method, denoted as the λ -method.
Load combination according to equation SS-EN 1992-1-1 section 6.8.3 equation 6.69.

In this load combination, the traffic load is considered to consist of UTM, whereby other traffic loads are excluded.

Permanent loads:

| Nr | Load | | $\psi \gamma_{UTM}$ |
|----|------------------|-----|---------------------|
| 1 | Egentyngd | max | 1.00 |
| | | min | 1.00 |
| 2 | Beläggning | max | 1.10 |
| | | min | 0.90 |
| 3 | Överfyllnad | max | 1.10 |
| | | min | 0.90 |
| 4 | Jordtryck | max | 1.48 |
| | | min | 0.90 |
| 5 | Vattentryck | max | 1.00 |
| | | min | 1.00 |
| 6 | Stödförskjutning | max | 1.00 |
| | | min | 1.00 |
| 7 | Krympning | max | 1.00 |
| | | min | 1.00 |
| 8 | Spännkraft | max | 1.00 |
| | | min | 1.00 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:106 |
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Variable loads:

| Nr | Load | $\Psi\gamma_{UTM}$ |
|----|---------------------|--------------------|
| | Lastmodell LM 1 : | |
| 9 | Boggiesystem | - |
| 10 | Utbredd last | - |
| 11 | Bromskraft | - |
| 12 | Sidokraft | - |
| 13 | Centrifugalkraft | - |
| | Lastmodell LM 2 : | |
| 14 | Enstaka axellast | - |
| | Typfordon EG A/B : | |
| 15 | Typfordon EG A/B | - |
| 16 | Bromskraft | - |
| 17 | Sidokraft | - |
| 18 | Centrifugalkraft | - |
| 19 | Temperatur | 0.60 |
| | Vindlaster: | |
| 20 | Vindlast mot bro | 0.30 |
| 21 | Vindlast mot trafik | 0.30 |
| 22 | Överlast | 1.01 |
| 23 | UTM3 | 1.00 |

| | | | |
|--|---|----------|-----------------|
| | Part A - CALCULATION ASSUMPTIONS Pretensioned slab bridge: hollow deck | Status : | Page: A3:107 |
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Load combination smart FAT :

(FAT-0 is identical but does not contain load case PT-t0)

| Load case | Permanent factor | Variable factor |
|-----------|------------------|-----------------|
| EGEN | 1.00 | 0 |
| BELÄGG | 1.00 | 0 |
| JORD | - | - |
| STOD | - | - |
| KRYMP | - | - |
| PT-t0 | 0.84 | - |
| VIND | - | - |
| UTM | - | 1.00 |
| OVER | - | - |
| TEMP | - | - |

Load cases BELÄGG, STOD and KRYMP are not fatigue loads, thus load coefficient 1.0 is applied.

Load cases pretension is not a fatigue loads, thus load coefficient lowest load value of value is assumed PT-t2 (= 0.84·PT-t0) is applied.

Load case JORD is not a fatigue load, thus load coefficient highest load coefficient is applied.

Load cases TEMP, VIND and OVER are not fatigue loads, thus load is not considered.

During verification STR, the load case TEMP can be neglected according to SS-EN 1992-1-1 section 2.3.1.2(2).

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 1 |
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Title: Input receipt

Model Units: kN,m,t,s,C
Report Units: kN,m,t,s,C

Model Title: System 001
Model File: System 001

In this report “T” describes a interval (abbreviation of “to”).

See example below.

Assignment to Lines:
105T110;114T119

Expression means assignment at lines L105 → L110 & L114 → L119.

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 2 |
| | | Date : | Created : |

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| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 3 |
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1. Analysis

Analysis 1: Inherit from base analysis properties Geometric, Material & Supports

Analysis 2: Inherit from base analysis properties Geometric, Material & Supports

Analysis 3: Inherit from base analysis properties Geometric, Material & Supports

Analysis 4: Inherit from base analysis properties Geometric, Material & Supports

Analysis 5: Inherit from base analysis properties Geometric, Material & Supports

Analysis 6: Inherit from base analysis properties Geometric, Material & Supports

Analysis 7: Inherit from base analysis properties Geometric, Material & Supports

Analysis 8: Inherit from base analysis properties Geometric, Material & Supports

Analysis 9: Base analysis

In reports, "Analysis" is used to denote various statistical systems. One of these is referred to as "Base analysis." The others share the same properties as long as something intentional is changed.

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 4 |
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2. Points

| Point | X coordinate | Y coordinate | Z coordinate |
|-------|--------------|--------------|--------------|
| 1 | 0,5 | 4,2 | 0,0 |
| 2 | 1,8 | 4,2 | 0,0 |
| 3 | 4,6 | 4,2 | 0,0 |
| 4 | 7,2 | 4,2 | 0,0 |
| 5 | 9,8 | 4,2 | 0,0 |
| 6 | 12,3 | 4,2 | 0,0 |
| 7 | 14,9 | 4,2 | 0,0 |
| 8 | 17,3 | 4,2 | 0,0 |
| 9 | 19,9 | 4,2 | 0,0 |
| 10 | 22,4 | 4,2 | 0,0 |
| 11 | 24,9 | 4,2 | 0,0 |
| 12 | 25,9 | 4,2 | 0,0 |
| 13 | 28,5 | 4,2 | 0,0 |
| 14 | 31,1 | 4,2 | 0,0 |
| 15 | 33,7 | 4,2 | 0,0 |
| 16 | 36,3 | 4,2 | 0,0 |
| 17 | 38,9 | 4,2 | 0,0 |
| 18 | 41,8 | 4,2 | 0,0 |
| 19 | 44,9 | 4,2 | 0,0 |
| 20 | 47,3 | 4,2 | 0,0 |
| 21 | 49,8 | 4,2 | 0,0 |
| 22 | 50,8 | 4,2 | 0,0 |
| 23 | 53,7 | 4,2 | 0,0 |
| 24 | 56,6 | 4,2 | 0,0 |
| 25 | 59,5 | 4,2 | 0,0 |
| 26 | 62,4 | 4,2 | 0,0 |
| 27 | 65,2 | 4,2 | 0,0 |
| 28 | 68,1 | 4,2 | 0,0 |
| 29 | 71,2 | 4,2 | 0,0 |
| 30 | 74,3 | 4,2 | 0,0 |
| 31 | 75,3 | 4,2 | 0,0 |
| 32 | 78,1 | 4,2 | 0,0 |
| 33 | 80,8 | 4,2 | 0,0 |
| 34 | 83,6 | 4,2 | 0,0 |
| 35 | 86,4 | 4,2 | 0,0 |
| 36 | 89,1 | 4,2 | 0,0 |
| 37 | 91,9 | 4,2 | 0,0 |
| 38 | 93,5 | 4,2 | 0,0 |
| 39 | 95,2 | 4,2 | 0,0 |
| 40 | 97,1 | 4,2 | 0,0 |
| 41 | 99,1 | 4,2 | 0,0 |
| 42 | 101,3 | 4,2 | 0,0 |
| 43 | 103,4 | 4,2 | 0,0 |
| 44 | 105,6 | 4,2 | 0,0 |
| 45 | 106,6 | 4,2 | 0,0 |
| 46 | 109,3 | 4,2 | 0,0 |
| 47 | 112,0 | 4,2 | 0,0 |
| 48 | 114,8 | 4,2 | 0,0 |
| 49 | 117,5 | 4,2 | 0,0 |
| 50 | 120,2 | 4,2 | 0,0 |
| 51 | 122,9 | 4,2 | 0,0 |
| 52 | 124,6 | 4,2 | 0,0 |
| 53 | 126,2 | 4,2 | 0,0 |
| 54 | 128,2 | 4,2 | 0,0 |
| 55 | 130,1 | 4,2 | 0,0 |
| 56 | 132,6 | 4,2 | 0,0 |
| 57 | 135,1 | 4,2 | 0,0 |
| 58 | 136,1 | 4,2 | 0,0 |
| 59 | 138,7 | 4,2 | 0,0 |
| 62 | 146,5 | 4,2 | 0,0 |
| 63 | 149,1 | 4,2 | 0,0 |
| 64 | 152,0 | 4,2 | 0,0 |
| 65 | 155,1 | 4,2 | 0,0 |
| 66 | 157,6 | 4,2 | 0,0 |
| 67 | 160,1 | 4,2 | 0,0 |
| 68 | 161,1 | 4,2 | 0,0 |

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 5 |
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| | | | |
|-----|-------|-----|-----|
| 69 | 163,7 | 4,2 | 0,0 |
| 70 | 187,7 | 4,2 | 0,0 |
| 71 | 190,3 | 4,2 | 0,0 |
| 72 | 192,9 | 4,2 | 0,0 |
| 73 | 195,5 | 4,2 | 0,0 |
| 74 | 177,0 | 4,2 | 0,0 |
| 75 | 180,1 | 4,2 | 0,0 |
| 76 | 182,1 | 4,2 | 0,0 |
| 77 | 184,0 | 4,2 | 0,0 |
| 78 | 185,1 | 4,2 | 0,0 |
| 83 | 198,4 | 4,2 | 0,0 |
| 84 | 199,5 | 4,2 | 0,0 |
| 100 | 0,0 | 3,5 | 0,0 |
| 101 | 0,5 | 3,5 | 0,0 |
| 102 | 1,8 | 3,5 | 0,0 |
| 103 | 4,6 | 3,5 | 0,0 |
| 104 | 7,2 | 3,5 | 0,0 |
| 105 | 9,8 | 3,5 | 0,0 |
| 106 | 12,3 | 3,5 | 0,0 |
| 107 | 14,9 | 3,5 | 0,0 |
| 108 | 17,3 | 3,5 | 0,0 |
| 109 | 19,9 | 3,5 | 0,0 |
| 110 | 22,4 | 3,5 | 0,0 |
| 111 | 24,9 | 3,5 | 0,0 |
| 112 | 25,9 | 3,5 | 0,0 |
| 113 | 28,5 | 3,5 | 0,0 |
| 114 | 31,1 | 3,5 | 0,0 |
| 115 | 33,7 | 3,5 | 0,0 |
| 116 | 36,3 | 3,5 | 0,0 |
| 117 | 38,9 | 3,5 | 0,0 |
| 118 | 41,8 | 3,5 | 0,0 |
| 119 | 44,9 | 3,5 | 0,0 |
| 120 | 47,3 | 3,5 | 0,0 |
| 121 | 49,8 | 3,5 | 0,0 |
| 122 | 50,8 | 3,5 | 0,0 |
| 123 | 53,7 | 3,5 | 0,0 |
| 124 | 56,6 | 3,5 | 0,0 |
| 125 | 59,5 | 3,5 | 0,0 |
| 126 | 62,4 | 3,5 | 0,0 |
| 127 | 65,2 | 3,5 | 0,0 |
| 128 | 68,1 | 3,5 | 0,0 |
| 129 | 71,2 | 3,5 | 0,0 |
| 130 | 74,3 | 3,5 | 0,0 |
| 131 | 75,3 | 3,5 | 0,0 |
| 132 | 78,1 | 3,5 | 0,0 |
| 133 | 80,8 | 3,5 | 0,0 |
| 134 | 83,6 | 3,5 | 0,0 |
| 135 | 86,4 | 3,5 | 0,0 |
| 136 | 89,1 | 3,5 | 0,0 |
| 137 | 91,9 | 3,5 | 0,0 |
| 138 | 93,5 | 3,5 | 0,0 |
| 139 | 95,2 | 3,5 | 0,0 |
| 140 | 97,1 | 3,5 | 0,0 |
| 141 | 99,1 | 3,5 | 0,0 |
| 142 | 101,3 | 3,5 | 0,0 |
| 143 | 103,4 | 3,5 | 0,0 |
| 144 | 105,6 | 3,5 | 0,0 |
| 145 | 106,6 | 3,5 | 0,0 |
| 146 | 109,3 | 3,5 | 0,0 |
| 147 | 112,0 | 3,5 | 0,0 |
| 148 | 114,8 | 3,5 | 0,0 |
| 149 | 117,5 | 3,5 | 0,0 |
| 150 | 120,2 | 3,5 | 0,0 |
| 151 | 122,9 | 3,5 | 0,0 |
| 152 | 124,6 | 3,5 | 0,0 |
| 153 | 126,2 | 3,5 | 0,0 |
| 154 | 128,2 | 3,5 | 0,0 |
| 155 | 130,1 | 3,5 | 0,0 |
| 156 | 132,6 | 3,5 | 0,0 |
| 157 | 135,1 | 3,5 | 0,0 |

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 6 |
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| | | | |
|-----|-------|-----|-----|
| 158 | 136,1 | 3,5 | 0,0 |
| 159 | 138,7 | 3,5 | 0,0 |
| 160 | 141,3 | 3,5 | 0,0 |
| 161 | 143,9 | 3,5 | 0,0 |
| 162 | 146,5 | 3,5 | 0,0 |
| 163 | 149,1 | 3,5 | 0,0 |
| 164 | 152,0 | 3,5 | 0,0 |
| 165 | 155,1 | 3,5 | 0,0 |
| 166 | 157,6 | 3,5 | 0,0 |
| 167 | 160,1 | 3,5 | 0,0 |
| 168 | 161,1 | 3,5 | 0,0 |
| 169 | 163,7 | 3,5 | 0,0 |
| 170 | 166,3 | 3,5 | 0,0 |
| 171 | 168,9 | 3,5 | 0,0 |
| 172 | 171,5 | 3,5 | 0,0 |
| 173 | 174,1 | 3,5 | 0,0 |
| 174 | 177,0 | 3,5 | 0,0 |
| 175 | 180,1 | 3,5 | 0,0 |
| 176 | 182,1 | 3,5 | 0,0 |
| 177 | 184,0 | 3,5 | 0,0 |
| 178 | 185,1 | 3,5 | 0,0 |
| 179 | 187,7 | 3,5 | 0,0 |
| 180 | 190,3 | 3,5 | 0,0 |
| 181 | 192,9 | 3,5 | 0,0 |
| 182 | 195,5 | 3,5 | 0,0 |
| 183 | 198,4 | 3,5 | 0,0 |
| 184 | 199,5 | 3,5 | 0,0 |
| 185 | 200,0 | 3,5 | 0,0 |
| 200 | 0,0 | 2,5 | 0,0 |
| 201 | 0,5 | 2,5 | 0,0 |
| 202 | 1,8 | 2,5 | 0,0 |
| 203 | 4,6 | 2,5 | 0,0 |
| 204 | 7,2 | 2,5 | 0,0 |
| 205 | 9,8 | 2,5 | 0,0 |
| 206 | 12,3 | 2,5 | 0,0 |
| 207 | 14,9 | 2,5 | 0,0 |
| 208 | 17,3 | 2,5 | 0,0 |
| 209 | 19,9 | 2,5 | 0,0 |
| 210 | 22,4 | 2,5 | 0,0 |
| 211 | 24,9 | 2,5 | 0,0 |
| 212 | 25,9 | 2,5 | 0,0 |
| 213 | 28,5 | 2,5 | 0,0 |
| 214 | 31,1 | 2,5 | 0,0 |
| 215 | 33,7 | 2,5 | 0,0 |
| 216 | 36,3 | 2,5 | 0,0 |
| 217 | 38,9 | 2,5 | 0,0 |
| 218 | 41,8 | 2,5 | 0,0 |
| 219 | 44,9 | 2,5 | 0,0 |
| 220 | 47,3 | 2,5 | 0,0 |
| 221 | 49,8 | 2,5 | 0,0 |
| 222 | 50,8 | 2,5 | 0,0 |
| 223 | 53,7 | 2,5 | 0,0 |
| 224 | 56,6 | 2,5 | 0,0 |
| 225 | 59,5 | 2,5 | 0,0 |
| 226 | 62,4 | 2,5 | 0,0 |
| 227 | 65,2 | 2,5 | 0,0 |
| 228 | 68,1 | 2,5 | 0,0 |
| 229 | 71,2 | 2,5 | 0,0 |
| 230 | 74,3 | 2,5 | 0,0 |
| 231 | 75,3 | 2,5 | 0,0 |
| 232 | 78,1 | 2,5 | 0,0 |
| 233 | 80,8 | 2,5 | 0,0 |
| 234 | 83,6 | 2,5 | 0,0 |
| 235 | 86,4 | 2,5 | 0,0 |
| 236 | 89,1 | 2,5 | 0,0 |
| 237 | 91,9 | 2,5 | 0,0 |
| 238 | 93,5 | 2,5 | 0,0 |
| 239 | 95,2 | 2,5 | 0,0 |
| 240 | 97,1 | 2,5 | 0,0 |
| 241 | 99,1 | 2,5 | 0,0 |

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 7 |
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| | | | |
|-----|-------|-----|-----|
| 242 | 101,3 | 2,5 | 0,0 |
| 243 | 103,4 | 2,5 | 0,0 |
| 244 | 105,6 | 2,5 | 0,0 |
| 245 | 106,6 | 2,5 | 0,0 |
| 246 | 109,3 | 2,5 | 0,0 |
| 247 | 112,0 | 2,5 | 0,0 |
| 248 | 114,8 | 2,5 | 0,0 |
| 249 | 117,5 | 2,5 | 0,0 |
| 250 | 120,2 | 2,5 | 0,0 |
| 251 | 122,9 | 2,5 | 0,0 |
| 252 | 124,6 | 2,5 | 0,0 |
| 253 | 126,2 | 2,5 | 0,0 |
| 254 | 128,2 | 2,5 | 0,0 |
| 255 | 130,1 | 2,5 | 0,0 |
| 256 | 132,6 | 2,5 | 0,0 |
| 257 | 135,1 | 2,5 | 0,0 |
| 258 | 136,1 | 2,5 | 0,0 |
| 259 | 138,7 | 2,5 | 0,0 |
| 260 | 141,3 | 2,5 | 0,0 |
| 261 | 143,9 | 2,5 | 0,0 |
| 262 | 146,5 | 2,5 | 0,0 |
| 263 | 149,1 | 2,5 | 0,0 |
| 264 | 152,0 | 2,5 | 0,0 |
| 265 | 155,1 | 2,5 | 0,0 |
| 266 | 157,6 | 2,5 | 0,0 |
| 267 | 160,1 | 2,5 | 0,0 |
| 268 | 161,1 | 2,5 | 0,0 |
| 269 | 163,7 | 2,5 | 0,0 |
| 270 | 166,3 | 2,5 | 0,0 |
| 271 | 168,9 | 2,5 | 0,0 |
| 272 | 171,5 | 2,5 | 0,0 |
| 273 | 174,1 | 2,5 | 0,0 |
| 274 | 177,0 | 2,5 | 0,0 |
| 275 | 180,1 | 2,5 | 0,0 |
| 276 | 182,1 | 2,5 | 0,0 |
| 277 | 184,0 | 2,5 | 0,0 |
| 278 | 185,1 | 2,5 | 0,0 |
| 279 | 187,7 | 2,5 | 0,0 |
| 280 | 190,3 | 2,5 | 0,0 |
| 281 | 192,9 | 2,5 | 0,0 |
| 282 | 195,5 | 2,5 | 0,0 |
| 283 | 198,4 | 2,5 | 0,0 |
| 284 | 199,5 | 2,5 | 0,0 |
| 285 | 200,0 | 2,5 | 0,0 |
| 289 | 201,0 | 2,5 | 0,0 |
| 300 | 0,0 | 1,5 | 0,0 |
| 301 | 0,5 | 1,5 | 0,0 |
| 302 | 1,8 | 1,5 | 0,0 |
| 303 | 4,6 | 1,5 | 0,0 |
| 304 | 7,2 | 1,5 | 0,0 |
| 305 | 9,8 | 1,5 | 0,0 |
| 306 | 12,3 | 1,5 | 0,0 |
| 307 | 14,9 | 1,5 | 0,0 |
| 308 | 17,3 | 1,5 | 0,0 |
| 309 | 19,9 | 1,5 | 0,0 |
| 310 | 22,4 | 1,5 | 0,0 |
| 311 | 24,9 | 1,5 | 0,0 |
| 312 | 25,9 | 1,5 | 0,0 |
| 313 | 28,5 | 1,5 | 0,0 |
| 314 | 31,1 | 1,5 | 0,0 |
| 315 | 33,7 | 1,5 | 0,0 |
| 316 | 36,3 | 1,5 | 0,0 |
| 317 | 38,9 | 1,5 | 0,0 |
| 318 | 41,8 | 1,5 | 0,0 |
| 319 | 44,9 | 1,5 | 0,0 |
| 320 | 47,3 | 1,5 | 0,0 |
| 321 | 49,8 | 1,5 | 0,0 |
| 322 | 50,8 | 1,5 | 0,0 |
| 323 | 53,7 | 1,5 | 0,0 |
| 324 | 56,6 | 1,5 | 0,0 |

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 8 |
| | | Date : | Created : |

| | | | |
|-----|-------|-----|-----|
| 325 | 59,5 | 1,5 | 0,0 |
| 326 | 62,4 | 1,5 | 0,0 |
| 327 | 65,2 | 1,5 | 0,0 |
| 328 | 68,1 | 1,5 | 0,0 |
| 329 | 71,2 | 1,5 | 0,0 |
| 330 | 74,3 | 1,5 | 0,0 |
| 331 | 75,3 | 1,5 | 0,0 |
| 332 | 78,1 | 1,5 | 0,0 |
| 333 | 80,8 | 1,5 | 0,0 |
| 334 | 83,6 | 1,5 | 0,0 |
| 335 | 86,4 | 1,5 | 0,0 |
| 336 | 89,1 | 1,5 | 0,0 |
| 337 | 91,9 | 1,5 | 0,0 |
| 338 | 93,5 | 1,5 | 0,0 |
| 339 | 95,2 | 1,5 | 0,0 |
| 340 | 97,1 | 1,5 | 0,0 |
| 341 | 99,1 | 1,5 | 0,0 |
| 342 | 101,3 | 1,5 | 0,0 |
| 343 | 103,4 | 1,5 | 0,0 |
| 344 | 105,6 | 1,5 | 0,0 |
| 345 | 106,6 | 1,5 | 0,0 |
| 346 | 109,3 | 1,5 | 0,0 |
| 347 | 112,0 | 1,5 | 0,0 |
| 348 | 114,8 | 1,5 | 0,0 |
| 349 | 117,5 | 1,5 | 0,0 |
| 350 | 120,2 | 1,5 | 0,0 |
| 351 | 122,9 | 1,5 | 0,0 |
| 352 | 124,6 | 1,5 | 0,0 |
| 353 | 126,2 | 1,5 | 0,0 |
| 354 | 128,2 | 1,5 | 0,0 |
| 355 | 130,1 | 1,5 | 0,0 |
| 356 | 132,6 | 1,5 | 0,0 |
| 357 | 135,1 | 1,5 | 0,0 |
| 358 | 136,1 | 1,5 | 0,0 |
| 359 | 138,7 | 1,5 | 0,0 |
| 360 | 141,3 | 1,5 | 0,0 |
| 361 | 143,9 | 1,5 | 0,0 |
| 362 | 146,5 | 1,5 | 0,0 |
| 363 | 149,1 | 1,5 | 0,0 |
| 364 | 152,0 | 1,5 | 0,0 |
| 365 | 155,1 | 1,5 | 0,0 |
| 366 | 157,6 | 1,5 | 0,0 |
| 367 | 160,1 | 1,5 | 0,0 |
| 368 | 161,1 | 1,5 | 0,0 |
| 369 | 163,7 | 1,5 | 0,0 |
| 370 | 166,3 | 1,5 | 0,0 |
| 371 | 168,9 | 1,5 | 0,0 |
| 372 | 171,5 | 1,5 | 0,0 |
| 373 | 174,1 | 1,5 | 0,0 |
| 374 | 177,0 | 1,5 | 0,0 |
| 375 | 180,1 | 1,5 | 0,0 |
| 376 | 182,1 | 1,5 | 0,0 |
| 377 | 184,0 | 1,5 | 0,0 |
| 378 | 185,1 | 1,5 | 0,0 |
| 379 | 187,7 | 1,5 | 0,0 |
| 380 | 190,3 | 1,5 | 0,0 |
| 381 | 192,9 | 1,5 | 0,0 |
| 382 | 195,5 | 1,5 | 0,0 |
| 383 | 198,4 | 1,5 | 0,0 |
| 384 | 199,5 | 1,5 | 0,0 |
| 385 | 200,0 | 1,5 | 0,0 |
| 389 | 201,0 | 1,5 | 0,0 |
| 400 | 0,0 | 0,5 | 0,0 |
| 401 | 0,5 | 0,5 | 0,0 |
| 402 | 1,8 | 0,5 | 0,0 |
| 403 | 4,6 | 0,5 | 0,0 |
| 404 | 7,2 | 0,5 | 0,0 |
| 405 | 9,8 | 0,5 | 0,0 |
| 406 | 12,3 | 0,5 | 0,0 |
| 407 | 14,9 | 0,5 | 0,0 |

| | | | |
|--|---|----------|------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 9 |
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| | | | |
|-----|-------|-----|-----|
| 408 | 17,3 | 0,5 | 0,0 |
| 409 | 19,9 | 0,5 | 0,0 |
| 410 | 22,4 | 0,5 | 0,0 |
| 411 | 24,9 | 0,5 | 0,0 |
| 412 | 25,9 | 0,5 | 0,0 |
| 413 | 28,5 | 0,5 | 0,0 |
| 414 | 31,1 | 0,5 | 0,0 |
| 415 | 33,7 | 0,5 | 0,0 |
| 416 | 36,3 | 0,5 | 0,0 |
| 417 | 38,9 | 0,5 | 0,0 |
| 418 | 41,8 | 0,5 | 0,0 |
| 419 | 44,9 | 0,5 | 0,0 |
| 420 | 47,3 | 0,5 | 0,0 |
| 421 | 49,8 | 0,5 | 0,0 |
| 422 | 50,8 | 0,5 | 0,0 |
| 423 | 53,7 | 0,5 | 0,0 |
| 424 | 56,6 | 0,5 | 0,0 |
| 425 | 59,5 | 0,5 | 0,0 |
| 426 | 62,4 | 0,5 | 0,0 |
| 427 | 65,2 | 0,5 | 0,0 |
| 428 | 68,1 | 0,5 | 0,0 |
| 429 | 71,2 | 0,5 | 0,0 |
| 430 | 74,3 | 0,5 | 0,0 |
| 431 | 75,3 | 0,5 | 0,0 |
| 432 | 78,1 | 0,5 | 0,0 |
| 433 | 80,8 | 0,5 | 0,0 |
| 434 | 83,6 | 0,5 | 0,0 |
| 435 | 86,4 | 0,5 | 0,0 |
| 436 | 89,1 | 0,5 | 0,0 |
| 437 | 91,9 | 0,5 | 0,0 |
| 438 | 93,5 | 0,5 | 0,0 |
| 439 | 95,2 | 0,5 | 0,0 |
| 440 | 97,1 | 0,5 | 0,0 |
| 441 | 99,1 | 0,5 | 0,0 |
| 442 | 101,3 | 0,5 | 0,0 |
| 443 | 103,4 | 0,5 | 0,0 |
| 444 | 105,6 | 0,5 | 0,0 |
| 445 | 106,6 | 0,5 | 0,0 |
| 446 | 109,3 | 0,5 | 0,0 |
| 447 | 112,0 | 0,5 | 0,0 |
| 448 | 114,8 | 0,5 | 0,0 |
| 449 | 117,5 | 0,5 | 0,0 |
| 450 | 120,2 | 0,5 | 0,0 |
| 451 | 122,9 | 0,5 | 0,0 |
| 452 | 124,6 | 0,5 | 0,0 |
| 453 | 126,2 | 0,5 | 0,0 |
| 454 | 128,2 | 0,5 | 0,0 |
| 455 | 130,1 | 0,5 | 0,0 |
| 456 | 132,6 | 0,5 | 0,0 |
| 457 | 135,1 | 0,5 | 0,0 |
| 458 | 136,1 | 0,5 | 0,0 |
| 459 | 138,7 | 0,5 | 0,0 |
| 460 | 141,3 | 0,5 | 0,0 |
| 461 | 143,9 | 0,5 | 0,0 |
| 462 | 146,5 | 0,5 | 0,0 |
| 463 | 149,1 | 0,5 | 0,0 |
| 464 | 152,0 | 0,5 | 0,0 |
| 465 | 155,1 | 0,5 | 0,0 |
| 466 | 157,6 | 0,5 | 0,0 |
| 467 | 160,1 | 0,5 | 0,0 |
| 468 | 161,1 | 0,5 | 0,0 |
| 469 | 163,7 | 0,5 | 0,0 |
| 470 | 166,3 | 0,5 | 0,0 |
| 471 | 168,9 | 0,5 | 0,0 |
| 472 | 171,5 | 0,5 | 0,0 |
| 473 | 174,1 | 0,5 | 0,0 |
| 474 | 177,0 | 0,5 | 0,0 |
| 475 | 180,1 | 0,5 | 0,0 |
| 476 | 182,1 | 0,5 | 0,0 |
| 477 | 184,0 | 0,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 10 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 478 | 185,1 | 0,5 | 0,0 |
| 479 | 187,7 | 0,5 | 0,0 |
| 480 | 190,3 | 0,5 | 0,0 |
| 481 | 192,9 | 0,5 | 0,0 |
| 482 | 195,5 | 0,5 | 0,0 |
| 483 | 198,4 | 0,5 | 0,0 |
| 484 | 199,5 | 0,5 | 0,0 |
| 485 | 200,0 | 0,5 | 0,0 |
| 500 | 0,0 | -0,5 | 0,0 |
| 501 | 0,5 | -0,5 | 0,0 |
| 502 | 1,8 | -0,5 | 0,0 |
| 503 | 4,6 | -0,5 | 0,0 |
| 504 | 7,2 | -0,5 | 0,0 |
| 505 | 9,8 | -0,5 | 0,0 |
| 506 | 12,3 | -0,5 | 0,0 |
| 507 | 14,9 | -0,5 | 0,0 |
| 508 | 17,3 | -0,5 | 0,0 |
| 509 | 19,9 | -0,5 | 0,0 |
| 510 | 22,4 | -0,5 | 0,0 |
| 511 | 24,9 | -0,5 | 0,0 |
| 512 | 25,9 | -0,5 | 0,0 |
| 513 | 28,5 | -0,5 | 0,0 |
| 514 | 31,1 | -0,5 | 0,0 |
| 515 | 33,7 | -0,5 | 0,0 |
| 516 | 36,3 | -0,5 | 0,0 |
| 517 | 38,9 | -0,5 | 0,0 |
| 518 | 41,8 | -0,5 | 0,0 |
| 519 | 44,9 | -0,5 | 0,0 |
| 520 | 47,3 | -0,5 | 0,0 |
| 521 | 49,8 | -0,5 | 0,0 |
| 522 | 50,8 | -0,5 | 0,0 |
| 523 | 53,7 | -0,5 | 0,0 |
| 524 | 56,6 | -0,5 | 0,0 |
| 525 | 59,5 | -0,5 | 0,0 |
| 526 | 62,4 | -0,5 | 0,0 |
| 527 | 65,2 | -0,5 | 0,0 |
| 528 | 68,1 | -0,5 | 0,0 |
| 529 | 71,2 | -0,5 | 0,0 |
| 530 | 74,3 | -0,5 | 0,0 |
| 531 | 75,3 | -0,5 | 0,0 |
| 532 | 78,1 | -0,5 | 0,0 |
| 533 | 80,8 | -0,5 | 0,0 |
| 534 | 83,6 | -0,5 | 0,0 |
| 535 | 86,4 | -0,5 | 0,0 |
| 536 | 89,1 | -0,5 | 0,0 |
| 537 | 91,9 | -0,5 | 0,0 |
| 538 | 93,5 | -0,5 | 0,0 |
| 539 | 95,2 | -0,5 | 0,0 |
| 540 | 97,1 | -0,5 | 0,0 |
| 541 | 99,1 | -0,5 | 0,0 |
| 542 | 101,3 | -0,5 | 0,0 |
| 543 | 103,4 | -0,5 | 0,0 |
| 544 | 105,6 | -0,5 | 0,0 |
| 545 | 106,6 | -0,5 | 0,0 |
| 546 | 109,3 | -0,5 | 0,0 |
| 547 | 112,0 | -0,5 | 0,0 |
| 548 | 114,8 | -0,5 | 0,0 |
| 549 | 117,5 | -0,5 | 0,0 |
| 550 | 120,2 | -0,5 | 0,0 |
| 551 | 122,9 | -0,5 | 0,0 |
| 552 | 124,6 | -0,5 | 0,0 |
| 553 | 126,2 | -0,5 | 0,0 |
| 554 | 128,2 | -0,5 | 0,0 |
| 555 | 130,1 | -0,5 | 0,0 |
| 556 | 132,6 | -0,5 | 0,0 |
| 557 | 135,1 | -0,5 | 0,0 |
| 558 | 136,1 | -0,5 | 0,0 |
| 559 | 138,7 | -0,5 | 0,0 |
| 560 | 141,3 | -0,5 | 0,0 |
| 561 | 143,9 | -0,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 11 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 562 | 146,5 | -0,5 | 0,0 |
| 563 | 149,1 | -0,5 | 0,0 |
| 564 | 152,0 | -0,5 | 0,0 |
| 565 | 155,1 | -0,5 | 0,0 |
| 566 | 157,6 | -0,5 | 0,0 |
| 567 | 160,1 | -0,5 | 0,0 |
| 568 | 161,1 | -0,5 | 0,0 |
| 569 | 163,7 | -0,5 | 0,0 |
| 570 | 166,3 | -0,5 | 0,0 |
| 571 | 168,9 | -0,5 | 0,0 |
| 572 | 171,5 | -0,5 | 0,0 |
| 573 | 174,1 | -0,5 | 0,0 |
| 574 | 177,0 | -0,5 | 0,0 |
| 575 | 180,1 | -0,5 | 0,0 |
| 576 | 182,1 | -0,5 | 0,0 |
| 577 | 184,0 | -0,5 | 0,0 |
| 578 | 185,1 | -0,5 | 0,0 |
| 579 | 187,7 | -0,5 | 0,0 |
| 580 | 190,3 | -0,5 | 0,0 |
| 581 | 192,9 | -0,5 | 0,0 |
| 582 | 195,5 | -0,5 | 0,0 |
| 583 | 198,4 | -0,5 | 0,0 |
| 584 | 199,5 | -0,5 | 0,0 |
| 585 | 200,0 | -0,5 | 0,0 |
| 589 | 201,0 | -0,5 | 0,0 |
| 600 | 0,0 | -1,5 | 0,0 |
| 601 | 0,5 | -1,5 | 0,0 |
| 602 | 1,8 | -1,5 | 0,0 |
| 603 | 4,6 | -1,5 | 0,0 |
| 604 | 7,2 | -1,5 | 0,0 |
| 605 | 9,8 | -1,5 | 0,0 |
| 606 | 12,3 | -1,5 | 0,0 |
| 607 | 14,9 | -1,5 | 0,0 |
| 608 | 17,3 | -1,5 | 0,0 |
| 609 | 19,9 | -1,5 | 0,0 |
| 610 | 22,4 | -1,5 | 0,0 |
| 611 | 24,9 | -1,5 | 0,0 |
| 612 | 25,9 | -1,5 | 0,0 |
| 613 | 28,5 | -1,5 | 0,0 |
| 614 | 31,1 | -1,5 | 0,0 |
| 615 | 33,7 | -1,5 | 0,0 |
| 616 | 36,3 | -1,5 | 0,0 |
| 617 | 38,9 | -1,5 | 0,0 |
| 618 | 41,8 | -1,5 | 0,0 |
| 619 | 44,9 | -1,5 | 0,0 |
| 620 | 47,3 | -1,5 | 0,0 |
| 621 | 49,8 | -1,5 | 0,0 |
| 622 | 50,8 | -1,5 | 0,0 |
| 623 | 53,7 | -1,5 | 0,0 |
| 624 | 56,6 | -1,5 | 0,0 |
| 625 | 59,5 | -1,5 | 0,0 |
| 626 | 62,4 | -1,5 | 0,0 |
| 627 | 65,2 | -1,5 | 0,0 |
| 628 | 68,1 | -1,5 | 0,0 |
| 629 | 71,2 | -1,5 | 0,0 |
| 630 | 74,3 | -1,5 | 0,0 |
| 631 | 75,3 | -1,5 | 0,0 |
| 632 | 78,1 | -1,5 | 0,0 |
| 633 | 80,8 | -1,5 | 0,0 |
| 634 | 83,6 | -1,5 | 0,0 |
| 635 | 86,4 | -1,5 | 0,0 |
| 636 | 89,1 | -1,5 | 0,0 |
| 637 | 91,9 | -1,5 | 0,0 |
| 638 | 93,5 | -1,5 | 0,0 |
| 639 | 95,2 | -1,5 | 0,0 |
| 640 | 97,1 | -1,5 | 0,0 |
| 641 | 99,1 | -1,5 | 0,0 |
| 642 | 101,3 | -1,5 | 0,0 |
| 643 | 103,4 | -1,5 | 0,0 |
| 644 | 105,6 | -1,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 12 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 645 | 106,6 | -1,5 | 0,0 |
| 646 | 109,3 | -1,5 | 0,0 |
| 647 | 112,0 | -1,5 | 0,0 |
| 648 | 114,8 | -1,5 | 0,0 |
| 649 | 117,5 | -1,5 | 0,0 |
| 650 | 120,2 | -1,5 | 0,0 |
| 651 | 122,9 | -1,5 | 0,0 |
| 652 | 124,6 | -1,5 | 0,0 |
| 653 | 126,2 | -1,5 | 0,0 |
| 654 | 128,2 | -1,5 | 0,0 |
| 655 | 130,1 | -1,5 | 0,0 |
| 656 | 132,6 | -1,5 | 0,0 |
| 657 | 135,1 | -1,5 | 0,0 |
| 658 | 136,1 | -1,5 | 0,0 |
| 659 | 138,7 | -1,5 | 0,0 |
| 660 | 141,3 | -1,5 | 0,0 |
| 661 | 143,9 | -1,5 | 0,0 |
| 662 | 146,5 | -1,5 | 0,0 |
| 663 | 149,1 | -1,5 | 0,0 |
| 664 | 152,0 | -1,5 | 0,0 |
| 665 | 155,1 | -1,5 | 0,0 |
| 666 | 157,6 | -1,5 | 0,0 |
| 667 | 160,1 | -1,5 | 0,0 |
| 668 | 161,1 | -1,5 | 0,0 |
| 669 | 163,7 | -1,5 | 0,0 |
| 670 | 166,3 | -1,5 | 0,0 |
| 671 | 168,9 | -1,5 | 0,0 |
| 672 | 171,5 | -1,5 | 0,0 |
| 673 | 174,1 | -1,5 | 0,0 |
| 674 | 177,0 | -1,5 | 0,0 |
| 675 | 180,1 | -1,5 | 0,0 |
| 676 | 182,1 | -1,5 | 0,0 |
| 677 | 184,0 | -1,5 | 0,0 |
| 678 | 185,1 | -1,5 | 0,0 |
| 679 | 187,7 | -1,5 | 0,0 |
| 680 | 190,3 | -1,5 | 0,0 |
| 681 | 192,9 | -1,5 | 0,0 |
| 682 | 195,5 | -1,5 | 0,0 |
| 683 | 198,4 | -1,5 | 0,0 |
| 684 | 199,5 | -1,5 | 0,0 |
| 685 | 200,0 | -1,5 | 0,0 |
| 688 | 201,0 | -1,5 | 0,0 |
| 700 | 0,0 | -2,5 | 0,0 |
| 701 | 0,5 | -2,5 | 0,0 |
| 702 | 1,8 | -2,5 | 0,0 |
| 703 | 4,6 | -2,5 | 0,0 |
| 704 | 7,2 | -2,5 | 0,0 |
| 705 | 9,8 | -2,5 | 0,0 |
| 706 | 12,3 | -2,5 | 0,0 |
| 707 | 14,9 | -2,5 | 0,0 |
| 708 | 17,3 | -2,5 | 0,0 |
| 709 | 19,9 | -2,5 | 0,0 |
| 710 | 22,4 | -2,5 | 0,0 |
| 711 | 24,9 | -2,5 | 0,0 |
| 712 | 25,9 | -2,5 | 0,0 |
| 713 | 28,5 | -2,5 | 0,0 |
| 714 | 31,1 | -2,5 | 0,0 |
| 715 | 33,7 | -2,5 | 0,0 |
| 716 | 36,3 | -2,5 | 0,0 |
| 717 | 38,9 | -2,5 | 0,0 |
| 718 | 41,8 | -2,5 | 0,0 |
| 719 | 44,9 | -2,5 | 0,0 |
| 720 | 47,3 | -2,5 | 0,0 |
| 721 | 49,8 | -2,5 | 0,0 |
| 722 | 50,8 | -2,5 | 0,0 |
| 723 | 53,7 | -2,5 | 0,0 |
| 724 | 56,6 | -2,5 | 0,0 |
| 725 | 59,5 | -2,5 | 0,0 |
| 726 | 62,4 | -2,5 | 0,0 |
| 727 | 65,2 | -2,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 13 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 728 | 68,1 | -2,5 | 0,0 |
| 729 | 71,2 | -2,5 | 0,0 |
| 730 | 74,3 | -2,5 | 0,0 |
| 731 | 75,3 | -2,5 | 0,0 |
| 732 | 78,1 | -2,5 | 0,0 |
| 733 | 80,8 | -2,5 | 0,0 |
| 734 | 83,6 | -2,5 | 0,0 |
| 735 | 86,4 | -2,5 | 0,0 |
| 736 | 89,1 | -2,5 | 0,0 |
| 737 | 91,9 | -2,5 | 0,0 |
| 738 | 93,5 | -2,5 | 0,0 |
| 739 | 95,2 | -2,5 | 0,0 |
| 740 | 97,1 | -2,5 | 0,0 |
| 741 | 99,1 | -2,5 | 0,0 |
| 742 | 101,3 | -2,5 | 0,0 |
| 743 | 103,4 | -2,5 | 0,0 |
| 744 | 105,6 | -2,5 | 0,0 |
| 745 | 106,6 | -2,5 | 0,0 |
| 746 | 109,3 | -2,5 | 0,0 |
| 747 | 112,0 | -2,5 | 0,0 |
| 748 | 114,8 | -2,5 | 0,0 |
| 749 | 117,5 | -2,5 | 0,0 |
| 750 | 120,2 | -2,5 | 0,0 |
| 751 | 122,9 | -2,5 | 0,0 |
| 752 | 124,6 | -2,5 | 0,0 |
| 753 | 126,2 | -2,5 | 0,0 |
| 754 | 128,2 | -2,5 | 0,0 |
| 755 | 130,1 | -2,5 | 0,0 |
| 756 | 132,6 | -2,5 | 0,0 |
| 757 | 135,1 | -2,5 | 0,0 |
| 758 | 136,1 | -2,5 | 0,0 |
| 759 | 138,7 | -2,5 | 0,0 |
| 760 | 141,3 | -2,5 | 0,0 |
| 761 | 143,9 | -2,5 | 0,0 |
| 762 | 146,5 | -2,5 | 0,0 |
| 763 | 149,1 | -2,5 | 0,0 |
| 764 | 152,0 | -2,5 | 0,0 |
| 765 | 155,1 | -2,5 | 0,0 |
| 766 | 157,6 | -2,5 | 0,0 |
| 767 | 160,1 | -2,5 | 0,0 |
| 768 | 161,1 | -2,5 | 0,0 |
| 769 | 163,7 | -2,5 | 0,0 |
| 770 | 166,3 | -2,5 | 0,0 |
| 771 | 168,9 | -2,5 | 0,0 |
| 772 | 171,5 | -2,5 | 0,0 |
| 773 | 174,1 | -2,5 | 0,0 |
| 774 | 177,0 | -2,5 | 0,0 |
| 775 | 180,1 | -2,5 | 0,0 |
| 776 | 182,1 | -2,5 | 0,0 |
| 777 | 184,0 | -2,5 | 0,0 |
| 778 | 185,1 | -2,5 | 0,0 |
| 779 | 187,7 | -2,5 | 0,0 |
| 780 | 190,3 | -2,5 | 0,0 |
| 781 | 192,9 | -2,5 | 0,0 |
| 782 | 195,5 | -2,5 | 0,0 |
| 783 | 198,4 | -2,5 | 0,0 |
| 784 | 199,5 | -2,5 | 0,0 |
| 785 | 200,0 | -2,5 | 0,0 |
| 800 | 0,0 | -3,5 | 0,0 |
| 801 | 0,5 | -3,5 | 0,0 |
| 802 | 1,8 | -3,5 | 0,0 |
| 803 | 4,6 | -3,5 | 0,0 |
| 804 | 7,2 | -3,5 | 0,0 |
| 805 | 9,8 | -3,5 | 0,0 |
| 806 | 12,3 | -3,5 | 0,0 |
| 807 | 14,9 | -3,5 | 0,0 |
| 808 | 17,3 | -3,5 | 0,0 |
| 809 | 19,9 | -3,5 | 0,0 |
| 810 | 22,4 | -3,5 | 0,0 |
| 811 | 24,9 | -3,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 14 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 812 | 25,9 | -3,5 | 0,0 |
| 813 | 28,5 | -3,5 | 0,0 |
| 814 | 31,1 | -3,5 | 0,0 |
| 815 | 33,7 | -3,5 | 0,0 |
| 816 | 36,3 | -3,5 | 0,0 |
| 817 | 38,9 | -3,5 | 0,0 |
| 818 | 41,8 | -3,5 | 0,0 |
| 819 | 44,9 | -3,5 | 0,0 |
| 820 | 47,3 | -3,5 | 0,0 |
| 821 | 49,8 | -3,5 | 0,0 |
| 822 | 50,8 | -3,5 | 0,0 |
| 823 | 53,7 | -3,5 | 0,0 |
| 824 | 56,6 | -3,5 | 0,0 |
| 825 | 59,5 | -3,5 | 0,0 |
| 826 | 62,4 | -3,5 | 0,0 |
| 827 | 65,2 | -3,5 | 0,0 |
| 828 | 68,1 | -3,5 | 0,0 |
| 829 | 71,2 | -3,5 | 0,0 |
| 830 | 74,3 | -3,5 | 0,0 |
| 831 | 75,3 | -3,5 | 0,0 |
| 832 | 78,1 | -3,5 | 0,0 |
| 833 | 80,8 | -3,5 | 0,0 |
| 834 | 83,6 | -3,5 | 0,0 |
| 835 | 86,4 | -3,5 | 0,0 |
| 836 | 89,1 | -3,5 | 0,0 |
| 837 | 91,9 | -3,5 | 0,0 |
| 838 | 93,5 | -3,5 | 0,0 |
| 839 | 95,2 | -3,5 | 0,0 |
| 840 | 97,1 | -3,5 | 0,0 |
| 841 | 99,1 | -3,5 | 0,0 |
| 842 | 101,3 | -3,5 | 0,0 |
| 843 | 103,4 | -3,5 | 0,0 |
| 844 | 105,6 | -3,5 | 0,0 |
| 845 | 106,6 | -3,5 | 0,0 |
| 846 | 109,3 | -3,5 | 0,0 |
| 847 | 112,0 | -3,5 | 0,0 |
| 848 | 114,8 | -3,5 | 0,0 |
| 849 | 117,5 | -3,5 | 0,0 |
| 850 | 120,2 | -3,5 | 0,0 |
| 851 | 122,9 | -3,5 | 0,0 |
| 852 | 124,6 | -3,5 | 0,0 |
| 853 | 126,2 | -3,5 | 0,0 |
| 854 | 128,2 | -3,5 | 0,0 |
| 855 | 130,1 | -3,5 | 0,0 |
| 856 | 132,6 | -3,5 | 0,0 |
| 857 | 135,1 | -3,5 | 0,0 |
| 858 | 136,1 | -3,5 | 0,0 |
| 859 | 138,7 | -3,5 | 0,0 |
| 860 | 141,3 | -3,5 | 0,0 |
| 861 | 143,9 | -3,5 | 0,0 |
| 862 | 146,5 | -3,5 | 0,0 |
| 863 | 149,1 | -3,5 | 0,0 |
| 864 | 152,0 | -3,5 | 0,0 |
| 865 | 155,1 | -3,5 | 0,0 |
| 866 | 157,6 | -3,5 | 0,0 |
| 867 | 160,1 | -3,5 | 0,0 |
| 868 | 161,1 | -3,5 | 0,0 |
| 869 | 163,7 | -3,5 | 0,0 |
| 870 | 166,3 | -3,5 | 0,0 |
| 871 | 168,9 | -3,5 | 0,0 |
| 872 | 171,5 | -3,5 | 0,0 |
| 873 | 174,1 | -3,5 | 0,0 |
| 874 | 177,0 | -3,5 | 0,0 |
| 875 | 180,1 | -3,5 | 0,0 |
| 876 | 182,1 | -3,5 | 0,0 |
| 877 | 184,0 | -3,5 | 0,0 |
| 878 | 185,1 | -3,5 | 0,0 |
| 879 | 187,7 | -3,5 | 0,0 |
| 880 | 190,3 | -3,5 | 0,0 |
| 881 | 192,9 | -3,5 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 15 |
| | | Date : | Created : |

| | | | |
|-----|-------|------|-----|
| 882 | 195,5 | -3,5 | 0,0 |
| 883 | 198,4 | -3,5 | 0,0 |
| 884 | 199,5 | -3,5 | 0,0 |
| 885 | 200,0 | -3,5 | 0,0 |
| 901 | 0,5 | -4,2 | 0,0 |
| 902 | 1,8 | -4,2 | 0,0 |
| 903 | 4,6 | -4,2 | 0,0 |
| 904 | 7,2 | -4,2 | 0,0 |
| 905 | 9,8 | -4,2 | 0,0 |
| 906 | 12,3 | -4,2 | 0,0 |
| 907 | 14,9 | -4,2 | 0,0 |
| 908 | 17,3 | -4,2 | 0,0 |
| 909 | 19,9 | -4,2 | 0,0 |
| 910 | 22,4 | -4,2 | 0,0 |
| 911 | 24,9 | -4,2 | 0,0 |
| 912 | 25,9 | -4,2 | 0,0 |
| 913 | 28,5 | -4,2 | 0,0 |
| 914 | 31,1 | -4,2 | 0,0 |
| 915 | 33,7 | -4,2 | 0,0 |
| 916 | 36,3 | -4,2 | 0,0 |
| 917 | 38,9 | -4,2 | 0,0 |
| 918 | 41,8 | -4,2 | 0,0 |
| 919 | 44,9 | -4,2 | 0,0 |
| 920 | 47,3 | -4,2 | 0,0 |
| 921 | 49,8 | -4,2 | 0,0 |
| 922 | 50,8 | -4,2 | 0,0 |
| 923 | 53,7 | -4,2 | 0,0 |
| 924 | 56,6 | -4,2 | 0,0 |
| 925 | 59,5 | -4,2 | 0,0 |
| 926 | 62,4 | -4,2 | 0,0 |
| 927 | 65,2 | -4,2 | 0,0 |
| 928 | 68,1 | -4,2 | 0,0 |
| 929 | 71,2 | -4,2 | 0,0 |
| 930 | 74,3 | -4,2 | 0,0 |
| 931 | 75,3 | -4,2 | 0,0 |
| 932 | 78,1 | -4,2 | 0,0 |
| 933 | 80,8 | -4,2 | 0,0 |
| 934 | 83,6 | -4,2 | 0,0 |
| 935 | 86,4 | -4,2 | 0,0 |
| 936 | 89,1 | -4,2 | 0,0 |
| 937 | 91,9 | -4,2 | 0,0 |
| 938 | 93,5 | -4,2 | 0,0 |
| 939 | 95,2 | -4,2 | 0,0 |
| 940 | 97,1 | -4,2 | 0,0 |
| 941 | 99,1 | -4,2 | 0,0 |
| 942 | 101,3 | -4,2 | 0,0 |
| 943 | 103,4 | -4,2 | 0,0 |
| 944 | 105,6 | -4,2 | 0,0 |
| 945 | 106,6 | -4,2 | 0,0 |
| 946 | 109,3 | -4,2 | 0,0 |
| 947 | 112,0 | -4,2 | 0,0 |
| 948 | 114,8 | -4,2 | 0,0 |
| 949 | 117,5 | -4,2 | 0,0 |
| 950 | 120,2 | -4,2 | 0,0 |
| 951 | 122,9 | -4,2 | 0,0 |
| 952 | 124,6 | -4,2 | 0,0 |
| 953 | 126,2 | -4,2 | 0,0 |
| 954 | 128,2 | -4,2 | 0,0 |
| 955 | 130,1 | -4,2 | 0,0 |
| 956 | 132,6 | -4,2 | 0,0 |
| 957 | 135,1 | -4,2 | 0,0 |
| 958 | 136,1 | -4,2 | 0,0 |
| 959 | 138,7 | -4,2 | 0,0 |
| 960 | 141,3 | -4,2 | 0,0 |
| 961 | 143,9 | -4,2 | 0,0 |
| 962 | 146,5 | -4,2 | 0,0 |
| 963 | 149,1 | -4,2 | 0,0 |
| 964 | 152,0 | -4,2 | 0,0 |
| 965 | 155,1 | -4,2 | 0,0 |
| 966 | 157,6 | -4,2 | 0,0 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 16 |
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| | | | |
|-----------------|-------|------|-------|
| 967 | 160,1 | -4,2 | 0,0 |
| 968 | 161,1 | -4,2 | 0,0 |
| 969 | 163,7 | -4,2 | 0,0 |
| 970 | 166,3 | -4,2 | 0,0 |
| 971 | 168,9 | -4,2 | 0,0 |
| 972 | 171,5 | -4,2 | 0,0 |
| 973 | 174,1 | -4,2 | 0,0 |
| 974 | 177,0 | -4,2 | 0,0 |
| 975 | 180,1 | -4,2 | 0,0 |
| 976 | 182,1 | -4,2 | 0,0 |
| 977 | 184,0 | -4,2 | 0,0 |
| 978 | 185,1 | -4,2 | 0,0 |
| 979 | 187,7 | -4,2 | 0,0 |
| 980 | 190,3 | -4,2 | 0,0 |
| 981 | 192,9 | -4,2 | 0,0 |
| 982 | 195,5 | -4,2 | 0,0 |
| 983 | 198,4 | -4,2 | 0,0 |
| 984 | 199,5 | -4,2 | 0,0 |
| 1100 | 0,5 | -2,6 | -0,6 |
| 1101 | 0,5 | 0,0 | -0,6 |
| 1102 | 0,5 | 2,6 | -0,6 |
| 1200 | 19,9 | -1,5 | -0,6 |
| 1201 | 19,9 | 0,0 | -0,6 |
| 1202 | 19,9 | 1,5 | -0,6 |
| 1300 | 44,9 | 0,0 | -11,8 |
| 1301 | 44,9 | 0,0 | -0,5 |
| 1400 | 68,1 | 0,0 | -11,6 |
| 1401 | 68,1 | 0,0 | -0,5 |
| 1500 | 99,1 | 0,0 | -9,4 |
| 1501 | 99,1 | 0,0 | -0,5 |
| 1600 | 130,1 | 0,0 | -10,2 |
| 1601 | 130,1 | 0,0 | -0,5 |
| 1700 | 155,1 | -1,5 | -0,6 |
| 1701 | 155,1 | 0,0 | -0,6 |
| 1702 | 155,1 | 1,5 | -0,6 |
| 1800 | 180,1 | -1,5 | -0,6 |
| 1801 | 180,1 | 0,0 | -0,6 |
| 1802 | 180,1 | 1,5 | -0,6 |
| 1900 | 199,5 | -2,6 | -0,6 |
| 1901 | 199,5 | 0,0 | -0,6 |
| 1902 | 199,5 | 2,6 | -0,6 |
| 3101 | 19,9 | 6,0 | -0,6 |
| 3108 | 19,9 | -6,0 | -0,6 |
| 3109 | 0,5 | 6,0 | -0,6 |
| 3110 | 0,5 | -6,0 | -0,6 |
| 3113 | 44,9 | 6,0 | -0,6 |
| 3114 | 44,9 | -6,0 | -0,6 |
| 3115 | 68,1 | 6,0 | -0,6 |
| 3116 | 68,1 | -6,0 | -0,6 |
| 3117 | 99,1 | 6,0 | -0,6 |
| 3118 | 99,1 | -6,0 | -0,6 |
| 3119 | 130,1 | 6,0 | -0,6 |
| 3120 | 130,1 | -6,0 | -0,6 |
| 3121 | 155,1 | 6,0 | -0,6 |
| 3122 | 155,1 | -6,0 | -0,6 |
| 3123 | 180,1 | 6,0 | -0,6 |
| 3124 | 180,1 | -6,0 | -0,6 |
| 3125 | 199,5 | 6,0 | -0,6 |
| 3126 | 199,5 | -6,0 | -0,6 |
| 3713 | 0,0 | 0,0 | 0,0 |
| 3714 | -1,0 | 4,0 | 0,0 |
| 3718 | 201,0 | 4,0 | 0,0 |
| 3719 | -1,0 | -4,0 | 0,0 |
| 3720 | 201,0 | -4,0 | 0,0 |
| VLO load anchor | 0,0 | 0,0 | 0,0 |
| 3746 | 99,1 | 0,0 | 0,0 |
| 4246 | -1,0 | -0,5 | 0,0 |
| 4846 | -1,0 | -1,5 | 0,0 |
| 5046 | -1,0 | 2,5 | 0,0 |
| 5346 | -1,0 | 1,5 | 0,0 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 17 |
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| | | | |
|------|-------|-----|-----|
| 5725 | 141,3 | 4,2 | 0,0 |
| 5786 | 143,9 | 4,2 | 0,0 |
| 6581 | 166,3 | 4,2 | 0,0 |
| 6582 | 168,9 | 4,2 | 0,0 |
| 6583 | 171,5 | 4,2 | 0,0 |
| 6584 | 174,1 | 4,2 | 0,0 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 18 |
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3. Lines

| Line | Points | Line | Points |
|------|---------|------|---------|
| 100 | 100;101 | 101 | 101;102 |
| 102 | 102;103 | 103 | 103;104 |
| 104 | 104;105 | 105 | 105;106 |
| 106 | 106;107 | 107 | 107;108 |
| 108 | 108;109 | 109 | 109;110 |
| 110 | 110;111 | 111 | 111;112 |
| 112 | 112;113 | 113 | 113;114 |
| 114 | 114;115 | 115 | 115;116 |
| 116 | 116;117 | 117 | 117;118 |
| 118 | 118;119 | 119 | 119;120 |
| 120 | 120;121 | 121 | 121;122 |
| 122 | 122;123 | 123 | 123;124 |
| 124 | 124;125 | 125 | 125;126 |
| 126 | 126;127 | 127 | 127;128 |
| 128 | 128;129 | 129 | 129;130 |
| 130 | 130;131 | 131 | 131;132 |
| 132 | 132;133 | 133 | 133;134 |
| 134 | 134;135 | 135 | 135;136 |
| 136 | 136;137 | 137 | 137;138 |
| 138 | 138;139 | 139 | 139;140 |
| 140 | 140;141 | 141 | 141;142 |
| 142 | 142;143 | 143 | 143;144 |
| 144 | 144;145 | 145 | 145;146 |
| 146 | 146;147 | 147 | 147;148 |
| 148 | 148;149 | 149 | 149;150 |
| 150 | 150;151 | 151 | 151;152 |
| 152 | 152;153 | 153 | 153;154 |
| 154 | 154;155 | 155 | 155;156 |
| 156 | 156;157 | 157 | 157;158 |
| 158 | 158;159 | 159 | 159;160 |
| 160 | 160;161 | 161 | 161;162 |
| 162 | 162;163 | 163 | 163;164 |
| 164 | 164;165 | 165 | 165;166 |
| 166 | 166;167 | 167 | 167;168 |
| 168 | 168;169 | 169 | 169;170 |
| 170 | 170;171 | 171 | 171;172 |
| 172 | 172;173 | 173 | 173;174 |
| 174 | 174;175 | 175 | 175;176 |
| 176 | 176;177 | 177 | 177;178 |
| 178 | 178;179 | 179 | 179;180 |
| 180 | 180;181 | 181 | 181;182 |
| 182 | 182;183 | 183 | 183;184 |
| 184 | 184;185 | 200 | 200;201 |
| 201 | 201;202 | 202 | 202;203 |
| 203 | 203;204 | 204 | 204;205 |
| 205 | 205;206 | 206 | 206;207 |
| 207 | 207;208 | 208 | 208;209 |
| 209 | 209;210 | 210 | 210;211 |
| 211 | 211;212 | 212 | 212;213 |
| 213 | 213;214 | 214 | 214;215 |
| 215 | 215;216 | 216 | 216;217 |
| 217 | 217;218 | 218 | 218;219 |
| 219 | 219;220 | 220 | 220;221 |
| 221 | 221;222 | 222 | 222;223 |
| 223 | 223;224 | 224 | 224;225 |
| 225 | 225;226 | 226 | 226;227 |
| 227 | 227;228 | 228 | 228;229 |
| 229 | 229;230 | 230 | 230;231 |
| 231 | 231;232 | 232 | 232;233 |
| 233 | 233;234 | 234 | 234;235 |
| 235 | 235;236 | 236 | 236;237 |
| 237 | 237;238 | 238 | 238;239 |
| 239 | 239;240 | 240 | 240;241 |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 19 |
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| | | | |
|-----|---------|-----|---------|
| 241 | 241;242 | 242 | 242;243 |
| 243 | 243;244 | 244 | 244;245 |
| 245 | 245;246 | 246 | 246;247 |
| 247 | 247;248 | 248 | 248;249 |
| 249 | 249;250 | 250 | 250;251 |
| 251 | 251;252 | 252 | 252;253 |
| 253 | 253;254 | 254 | 254;255 |
| 255 | 255;256 | 256 | 256;257 |
| 257 | 257;258 | 258 | 258;259 |
| 259 | 259;260 | 260 | 260;261 |
| 261 | 261;262 | 262 | 262;263 |
| 263 | 263;264 | 264 | 264;265 |
| 265 | 265;266 | 266 | 266;267 |
| 267 | 267;268 | 268 | 268;269 |
| 269 | 269;270 | 270 | 270;271 |
| 271 | 271;272 | 272 | 272;273 |
| 273 | 273;274 | 274 | 274;275 |
| 275 | 275;276 | 276 | 276;277 |
| 277 | 277;278 | 278 | 278;279 |
| 279 | 279;280 | 280 | 280;281 |
| 281 | 281;282 | 282 | 282;283 |
| 283 | 283;284 | 284 | 284;285 |
| 300 | 300;301 | 301 | 301;302 |
| 302 | 302;303 | 303 | 303;304 |
| 304 | 304;305 | 305 | 305;306 |
| 306 | 306;307 | 307 | 307;308 |
| 308 | 308;309 | 309 | 309;310 |
| 310 | 310;311 | 311 | 311;312 |
| 312 | 312;313 | 313 | 313;314 |
| 314 | 314;315 | 315 | 315;316 |
| 316 | 316;317 | 317 | 317;318 |
| 318 | 318;319 | 319 | 319;320 |
| 320 | 320;321 | 321 | 321;322 |
| 322 | 322;323 | 323 | 323;324 |
| 324 | 324;325 | 325 | 325;326 |
| 326 | 326;327 | 327 | 327;328 |
| 328 | 328;329 | 329 | 329;330 |
| 330 | 330;331 | 331 | 331;332 |
| 332 | 332;333 | 333 | 333;334 |
| 334 | 334;335 | 335 | 335;336 |
| 336 | 336;337 | 337 | 337;338 |
| 338 | 338;339 | 339 | 339;340 |
| 340 | 340;341 | 341 | 341;342 |
| 342 | 342;343 | 343 | 343;344 |
| 344 | 344;345 | 345 | 345;346 |
| 346 | 346;347 | 347 | 347;348 |
| 348 | 348;349 | 349 | 349;350 |
| 350 | 350;351 | 351 | 351;352 |
| 352 | 352;353 | 353 | 353;354 |
| 354 | 354;355 | 355 | 355;356 |
| 356 | 356;357 | 357 | 357;358 |
| 358 | 358;359 | 359 | 359;360 |
| 360 | 360;361 | 361 | 361;362 |
| 362 | 362;363 | 363 | 363;364 |
| 364 | 364;365 | 365 | 365;366 |
| 366 | 366;367 | 367 | 367;368 |
| 368 | 368;369 | 369 | 369;370 |
| 370 | 370;371 | 371 | 371;372 |
| 372 | 372;373 | 373 | 373;374 |
| 374 | 374;375 | 375 | 375;376 |
| 376 | 376;377 | 377 | 377;378 |
| 378 | 378;379 | 379 | 379;380 |
| 380 | 380;381 | 381 | 381;382 |
| 382 | 382;383 | 383 | 383;384 |
| 384 | 384;385 | 400 | 400;401 |
| 401 | 401;402 | 402 | 402;403 |
| 403 | 403;404 | 404 | 404;405 |
| 405 | 405;406 | 406 | 406;407 |
| 407 | 407;408 | 408 | 408;409 |
| 409 | 409;410 | 410 | 410;411 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 20 |
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| | | | |
|-----|---------|-----|---------|
| 411 | 411;412 | 412 | 412;413 |
| 413 | 413;414 | 414 | 414;415 |
| 415 | 415;416 | 416 | 416;417 |
| 417 | 417;418 | 418 | 418;419 |
| 419 | 419;420 | 420 | 420;421 |
| 421 | 421;422 | 422 | 422;423 |
| 423 | 423;424 | 424 | 424;425 |
| 425 | 425;426 | 426 | 426;427 |
| 427 | 427;428 | 428 | 428;429 |
| 429 | 429;430 | 430 | 430;431 |
| 431 | 431;432 | 432 | 432;433 |
| 433 | 433;434 | 434 | 434;435 |
| 435 | 435;436 | 436 | 436;437 |
| 437 | 437;438 | 438 | 438;439 |
| 439 | 439;440 | 440 | 440;441 |
| 441 | 441;442 | 442 | 442;443 |
| 443 | 443;444 | 444 | 444;445 |
| 445 | 445;446 | 446 | 446;447 |
| 447 | 447;448 | 448 | 448;449 |
| 449 | 449;450 | 450 | 450;451 |
| 451 | 451;452 | 452 | 452;453 |
| 453 | 453;454 | 454 | 454;455 |
| 455 | 455;456 | 456 | 456;457 |
| 457 | 457;458 | 458 | 458;459 |
| 459 | 459;460 | 460 | 460;461 |
| 461 | 461;462 | 462 | 462;463 |
| 463 | 463;464 | 464 | 464;465 |
| 465 | 465;466 | 466 | 466;467 |
| 467 | 467;468 | 468 | 468;469 |
| 469 | 469;470 | 470 | 470;471 |
| 471 | 471;472 | 472 | 472;473 |
| 473 | 473;474 | 474 | 474;475 |
| 475 | 475;476 | 476 | 476;477 |
| 477 | 477;478 | 478 | 478;479 |
| 479 | 479;480 | 480 | 480;481 |
| 481 | 481;482 | 482 | 482;483 |
| 483 | 483;484 | 484 | 484;485 |
| 500 | 500;501 | 501 | 501;502 |
| 502 | 502;503 | 503 | 503;504 |
| 504 | 504;505 | 505 | 505;506 |
| 506 | 506;507 | 507 | 507;508 |
| 508 | 508;509 | 509 | 509;510 |
| 510 | 510;511 | 511 | 511;512 |
| 512 | 512;513 | 513 | 513;514 |
| 514 | 514;515 | 515 | 515;516 |
| 516 | 516;517 | 517 | 517;518 |
| 518 | 518;519 | 519 | 519;520 |
| 520 | 520;521 | 521 | 521;522 |
| 522 | 522;523 | 523 | 523;524 |
| 524 | 524;525 | 525 | 525;526 |
| 526 | 526;527 | 527 | 527;528 |
| 528 | 528;529 | 529 | 529;530 |
| 530 | 530;531 | 531 | 531;532 |
| 532 | 532;533 | 533 | 533;534 |
| 534 | 534;535 | 535 | 535;536 |
| 536 | 536;537 | 537 | 537;538 |
| 538 | 538;539 | 539 | 539;540 |
| 540 | 540;541 | 541 | 541;542 |
| 542 | 542;543 | 543 | 543;544 |
| 544 | 544;545 | 545 | 545;546 |
| 546 | 546;547 | 547 | 547;548 |
| 548 | 548;549 | 549 | 549;550 |
| 550 | 550;551 | 551 | 551;552 |
| 552 | 552;553 | 553 | 553;554 |
| 554 | 554;555 | 555 | 555;556 |
| 556 | 556;557 | 557 | 557;558 |
| 558 | 558;559 | 559 | 559;560 |
| 560 | 560;561 | 561 | 561;562 |
| 562 | 562;563 | 563 | 563;564 |
| 564 | 564;565 | 565 | 565;566 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 21 |
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| | | | |
|-----|---------|-----|---------|
| 566 | 566;567 | 567 | 567;568 |
| 568 | 568;569 | 569 | 569;570 |
| 570 | 570;571 | 571 | 571;572 |
| 572 | 572;573 | 573 | 573;574 |
| 574 | 574;575 | 575 | 575;576 |
| 576 | 576;577 | 577 | 577;578 |
| 578 | 578;579 | 579 | 579;580 |
| 580 | 580;581 | 581 | 581;582 |
| 582 | 582;583 | 583 | 583;584 |
| 584 | 584;585 | 600 | 600;601 |
| 601 | 601;602 | 602 | 602;603 |
| 603 | 603;604 | 604 | 604;605 |
| 605 | 605;606 | 606 | 606;607 |
| 607 | 607;608 | 608 | 608;609 |
| 609 | 609;610 | 610 | 610;611 |
| 611 | 611;612 | 612 | 612;613 |
| 613 | 613;614 | 614 | 614;615 |
| 615 | 615;616 | 616 | 616;617 |
| 617 | 617;618 | 618 | 618;619 |
| 619 | 619;620 | 620 | 620;621 |
| 621 | 621;622 | 622 | 622;623 |
| 623 | 623;624 | 624 | 624;625 |
| 625 | 625;626 | 626 | 626;627 |
| 627 | 627;628 | 628 | 628;629 |
| 629 | 629;630 | 630 | 630;631 |
| 631 | 631;632 | 632 | 632;633 |
| 633 | 633;634 | 634 | 634;635 |
| 635 | 635;636 | 636 | 636;637 |
| 637 | 637;638 | 638 | 638;639 |
| 639 | 639;640 | 640 | 640;641 |
| 641 | 641;642 | 642 | 642;643 |
| 643 | 643;644 | 644 | 644;645 |
| 645 | 645;646 | 646 | 646;647 |
| 647 | 647;648 | 648 | 648;649 |
| 649 | 649;650 | 650 | 650;651 |
| 651 | 651;652 | 652 | 652;653 |
| 653 | 653;654 | 654 | 654;655 |
| 655 | 655;656 | 656 | 656;657 |
| 657 | 657;658 | 658 | 658;659 |
| 659 | 659;660 | 660 | 660;661 |
| 661 | 661;662 | 662 | 662;663 |
| 663 | 663;664 | 664 | 664;665 |
| 665 | 665;666 | 666 | 666;667 |
| 667 | 667;668 | 668 | 668;669 |
| 669 | 669;670 | 670 | 670;671 |
| 671 | 671;672 | 672 | 672;673 |
| 673 | 673;674 | 674 | 674;675 |
| 675 | 675;676 | 676 | 676;677 |
| 677 | 677;678 | 678 | 678;679 |
| 679 | 679;680 | 680 | 680;681 |
| 681 | 681;682 | 682 | 682;683 |
| 683 | 683;684 | 684 | 684;685 |
| 700 | 700;701 | 701 | 701;702 |
| 702 | 702;703 | 703 | 703;704 |
| 704 | 704;705 | 705 | 705;706 |
| 706 | 706;707 | 707 | 707;708 |
| 708 | 708;709 | 709 | 709;710 |
| 710 | 710;711 | 711 | 711;712 |
| 712 | 712;713 | 713 | 713;714 |
| 714 | 714;715 | 715 | 715;716 |
| 716 | 716;717 | 717 | 717;718 |
| 718 | 718;719 | 719 | 719;720 |
| 720 | 720;721 | 721 | 721;722 |
| 722 | 722;723 | 723 | 723;724 |
| 724 | 724;725 | 725 | 725;726 |
| 726 | 726;727 | 727 | 727;728 |
| 728 | 728;729 | 729 | 729;730 |
| 730 | 730;731 | 731 | 731;732 |
| 732 | 732;733 | 733 | 733;734 |
| 734 | 734;735 | 735 | 735;736 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 22 |
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| | | | |
|------|---------|------|---------|
| 736 | 736;737 | 737 | 737;738 |
| 738 | 738;739 | 739 | 739;740 |
| 740 | 740;741 | 741 | 741;742 |
| 742 | 742;743 | 743 | 743;744 |
| 744 | 744;745 | 745 | 745;746 |
| 746 | 746;747 | 747 | 747;748 |
| 748 | 748;749 | 749 | 749;750 |
| 750 | 750;751 | 751 | 751;752 |
| 752 | 752;753 | 753 | 753;754 |
| 754 | 754;755 | 755 | 755;756 |
| 756 | 756;757 | 757 | 757;758 |
| 758 | 758;759 | 759 | 759;760 |
| 760 | 760;761 | 761 | 761;762 |
| 762 | 762;763 | 763 | 763;764 |
| 764 | 764;765 | 765 | 765;766 |
| 766 | 766;767 | 767 | 767;768 |
| 768 | 768;769 | 769 | 769;770 |
| 770 | 770;771 | 771 | 771;772 |
| 772 | 772;773 | 773 | 773;774 |
| 774 | 774;775 | 775 | 775;776 |
| 776 | 776;777 | 777 | 777;778 |
| 778 | 778;779 | 779 | 779;780 |
| 780 | 780;781 | 781 | 781;782 |
| 782 | 782;783 | 783 | 783;784 |
| 784 | 784;785 | 800 | 800;801 |
| 801 | 801;802 | 802 | 802;803 |
| 803 | 803;804 | 804 | 804;805 |
| 805 | 805;806 | 806 | 806;807 |
| 807 | 807;808 | 808 | 808;809 |
| 809 | 809;810 | 810 | 810;811 |
| 811 | 811;812 | 812 | 812;813 |
| 813 | 813;814 | 814 | 814;815 |
| 815 | 815;816 | 816 | 816;817 |
| 817 | 817;818 | 818 | 818;819 |
| 819 | 819;820 | 820 | 820;821 |
| 821 | 821;822 | 822 | 822;823 |
| 823 | 823;824 | 824 | 824;825 |
| 825 | 825;826 | 826 | 826;827 |
| 827 | 827;828 | 828 | 828;829 |
| 829 | 829;830 | 830 | 830;831 |
| 831 | 831;832 | 832 | 832;833 |
| 833 | 833;834 | 834 | 834;835 |
| 835 | 835;836 | 836 | 836;837 |
| 837 | 837;838 | 838 | 838;839 |
| 839 | 839;840 | 840 | 840;841 |
| 841 | 841;842 | 842 | 842;843 |
| 843 | 843;844 | 844 | 844;845 |
| 845 | 845;846 | 846 | 846;847 |
| 847 | 847;848 | 848 | 848;849 |
| 849 | 849;850 | 850 | 850;851 |
| 851 | 851;852 | 852 | 852;853 |
| 853 | 853;854 | 854 | 854;855 |
| 855 | 855;856 | 856 | 856;857 |
| 857 | 857;858 | 858 | 858;859 |
| 859 | 859;860 | 860 | 860;861 |
| 861 | 861;862 | 862 | 862;863 |
| 863 | 863;864 | 864 | 864;865 |
| 865 | 865;866 | 866 | 866;867 |
| 867 | 867;868 | 868 | 868;869 |
| 869 | 869;870 | 870 | 870;871 |
| 871 | 871;872 | 872 | 872;873 |
| 873 | 873;874 | 874 | 874;875 |
| 875 | 875;876 | 876 | 876;877 |
| 877 | 877;878 | 878 | 878;879 |
| 879 | 879;880 | 880 | 880;881 |
| 881 | 881;882 | 882 | 882;883 |
| 883 | 883;884 | 884 | 884;885 |
| 1000 | 901;801 | 1001 | 801;701 |
| 1002 | 701;601 | 1003 | 601;501 |
| 1004 | 501;401 | 1005 | 401;301 |

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| 1006 | 301;201 | 1007 | 201;101 |
| 1008 | 101;1 | 1010 | 902;802 |
| 1011 | 802;702 | 1012 | 702;602 |
| 1013 | 602;502 | 1014 | 502;402 |
| 1015 | 402;302 | 1016 | 302;202 |
| 1017 | 202;102 | 1018 | 102;2 |
| 1020 | 903;803 | 1021 | 803;703 |
| 1022 | 703;603 | 1023 | 603;503 |
| 1024 | 503;403 | 1025 | 403;303 |
| 1026 | 303;203 | 1027 | 203;103 |
| 1028 | 103;3 | 1030 | 904;804 |
| 1031 | 804;704 | 1032 | 704;604 |
| 1033 | 604;504 | 1034 | 504;404 |
| 1035 | 404;304 | 1036 | 304;204 |
| 1037 | 204;104 | 1038 | 104;4 |
| 1040 | 905;805 | 1041 | 805;705 |
| 1042 | 705;605 | 1043 | 605;505 |
| 1044 | 505;405 | 1045 | 405;305 |
| 1046 | 305;205 | 1047 | 205;105 |
| 1048 | 105;5 | 1050 | 906;806 |
| 1051 | 806;706 | 1052 | 706;606 |
| 1053 | 606;506 | 1054 | 506;406 |
| 1055 | 406;306 | 1056 | 306;206 |
| 1057 | 206;106 | 1058 | 106;6 |
| 1060 | 907;807 | 1061 | 807;707 |
| 1062 | 707;607 | 1063 | 607;507 |
| 1064 | 507;407 | 1065 | 407;307 |
| 1066 | 307;207 | 1067 | 207;107 |
| 1068 | 107;7 | 1070 | 908;808 |
| 1071 | 808;708 | 1072 | 708;608 |
| 1073 | 608;508 | 1074 | 508;408 |
| 1075 | 408;308 | 1076 | 308;208 |
| 1077 | 208;108 | 1078 | 108;8 |
| 1080 | 909;809 | 1081 | 809;709 |
| 1082 | 709;609 | 1083 | 609;509 |
| 1084 | 509;409 | 1085 | 409;309 |
| 1086 | 309;209 | 1087 | 209;109 |
| 1088 | 109;9 | 1090 | 910;810 |
| 1091 | 810;710 | 1092 | 710;610 |
| 1093 | 610;510 | 1094 | 510;410 |
| 1095 | 410;310 | 1096 | 310;210 |
| 1097 | 210;110 | 1098 | 110;10 |
| 1100 | 911;811 | 1101 | 811;711 |
| 1102 | 711;611 | 1103 | 611;511 |
| 1104 | 511;411 | 1105 | 411;311 |
| 1106 | 311;211 | 1107 | 211;111 |
| 1108 | 111;11 | 1110 | 912;812 |
| 1111 | 812;712 | 1112 | 712;612 |
| 1113 | 612;512 | 1114 | 512;412 |
| 1115 | 412;312 | 1116 | 312;212 |
| 1117 | 212;112 | 1118 | 112;12 |
| 1120 | 913;813 | 1121 | 813;713 |
| 1122 | 713;613 | 1123 | 613;513 |
| 1124 | 513;413 | 1125 | 413;313 |
| 1126 | 313;213 | 1127 | 213;113 |
| 1128 | 113;13 | 1130 | 914;814 |
| 1131 | 814;714 | 1132 | 714;614 |
| 1133 | 614;514 | 1134 | 514;414 |
| 1135 | 414;314 | 1136 | 314;214 |
| 1137 | 214;114 | 1138 | 114;14 |
| 1140 | 915;815 | 1141 | 815;715 |
| 1142 | 715;615 | 1143 | 615;515 |
| 1144 | 515;415 | 1145 | 415;315 |
| 1146 | 315;215 | 1147 | 215;115 |
| 1148 | 115;15 | 1150 | 916;816 |
| 1151 | 816;716 | 1152 | 716;616 |
| 1153 | 616;516 | 1154 | 516;416 |
| 1155 | 416;316 | 1156 | 316;216 |
| 1157 | 216;116 | 1158 | 116;16 |
| 1160 | 917;817 | 1161 | 817;717 |

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| 1162 | 717;617 | 1163 | 617;517 |
| 1164 | 517;417 | 1165 | 417;317 |
| 1166 | 317;217 | 1167 | 217;117 |
| 1168 | 117;17 | 1170 | 918;818 |
| 1171 | 818;718 | 1172 | 718;618 |
| 1173 | 618;518 | 1174 | 518;418 |
| 1175 | 418;318 | 1176 | 318;218 |
| 1177 | 218;118 | 1178 | 118;18 |
| 1180 | 919;819 | 1181 | 819;719 |
| 1182 | 719;619 | 1183 | 619;519 |
| 1184 | 519;419 | 1185 | 419;319 |
| 1186 | 319;219 | 1187 | 219;119 |
| 1188 | 119;19 | 1190 | 920;820 |
| 1191 | 820;720 | 1192 | 720;620 |
| 1193 | 620;520 | 1194 | 520;420 |
| 1195 | 420;320 | 1196 | 320;220 |
| 1197 | 220;120 | 1198 | 120;20 |
| 1200 | 921;821 | 1201 | 821;721 |
| 1202 | 721;621 | 1203 | 621;521 |
| 1204 | 521;421 | 1205 | 421;321 |
| 1206 | 321;221 | 1207 | 221;121 |
| 1208 | 121;21 | 1210 | 922;822 |
| 1211 | 822;722 | 1212 | 722;622 |
| 1213 | 622;522 | 1214 | 522;422 |
| 1215 | 422;322 | 1216 | 322;222 |
| 1217 | 222;122 | 1218 | 122;22 |
| 1220 | 923;823 | 1221 | 823;723 |
| 1222 | 723;623 | 1223 | 623;523 |
| 1224 | 523;423 | 1225 | 423;323 |
| 1226 | 323;223 | 1227 | 223;123 |
| 1228 | 123;23 | 1230 | 924;824 |
| 1231 | 824;724 | 1232 | 724;624 |
| 1233 | 624;524 | 1234 | 524;424 |
| 1235 | 424;324 | 1236 | 324;224 |
| 1237 | 224;124 | 1238 | 124;24 |
| 1240 | 925;825 | 1241 | 825;725 |
| 1242 | 725;625 | 1243 | 625;525 |
| 1244 | 525;425 | 1245 | 425;325 |
| 1246 | 325;225 | 1247 | 225;125 |
| 1248 | 125;25 | 1250 | 926;826 |
| 1251 | 826;726 | 1252 | 726;626 |
| 1253 | 626;526 | 1254 | 526;426 |
| 1255 | 426;326 | 1256 | 326;226 |
| 1257 | 226;126 | 1258 | 126;26 |
| 1260 | 927;827 | 1261 | 827;727 |
| 1262 | 727;627 | 1263 | 627;527 |
| 1264 | 527;427 | 1265 | 427;327 |
| 1266 | 327;227 | 1267 | 227;127 |
| 1268 | 127;27 | 1270 | 928;828 |
| 1271 | 828;728 | 1272 | 728;628 |
| 1273 | 628;528 | 1274 | 528;428 |
| 1275 | 428;328 | 1276 | 328;228 |
| 1277 | 228;128 | 1278 | 128;28 |
| 1280 | 929;829 | 1281 | 829;729 |
| 1282 | 729;629 | 1283 | 629;529 |
| 1284 | 529;429 | 1285 | 429;329 |
| 1286 | 329;229 | 1287 | 229;129 |
| 1288 | 129;29 | 1290 | 930;830 |
| 1291 | 830;730 | 1292 | 730;630 |
| 1293 | 630;530 | 1294 | 530;430 |
| 1295 | 430;330 | 1296 | 330;230 |
| 1297 | 230;130 | 1298 | 130;30 |
| 1300 | 931;831 | 1301 | 831;731 |
| 1302 | 731;631 | 1303 | 631;531 |
| 1304 | 531;431 | 1305 | 431;331 |
| 1306 | 331;231 | 1307 | 231;131 |
| 1308 | 131;31 | 1310 | 932;832 |
| 1311 | 832;732 | 1312 | 732;632 |
| 1313 | 632;532 | 1314 | 532;432 |
| 1315 | 432;332 | 1316 | 332;232 |

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| 1317 | 232;132 | 1318 | 132;32 |
| 1320 | 933;833 | 1321 | 833;733 |
| 1322 | 733;633 | 1323 | 633;533 |
| 1324 | 533;433 | 1325 | 433;333 |
| 1326 | 333;233 | 1327 | 233;133 |
| 1328 | 133;33 | 1330 | 934;834 |
| 1331 | 834;734 | 1332 | 734;634 |
| 1333 | 634;534 | 1334 | 534;434 |
| 1335 | 434;334 | 1336 | 334;234 |
| 1337 | 234;134 | 1338 | 134;34 |
| 1340 | 935;835 | 1341 | 835;735 |
| 1342 | 735;635 | 1343 | 635;535 |
| 1344 | 535;435 | 1345 | 435;335 |
| 1346 | 335;235 | 1347 | 235;135 |
| 1348 | 135;35 | 1350 | 936;836 |
| 1351 | 836;736 | 1352 | 736;636 |
| 1353 | 636;536 | 1354 | 536;436 |
| 1355 | 436;336 | 1356 | 336;236 |
| 1357 | 236;136 | 1358 | 136;36 |
| 1360 | 937;837 | 1361 | 837;737 |
| 1362 | 737;637 | 1363 | 637;537 |
| 1364 | 537;437 | 1365 | 437;337 |
| 1366 | 337;237 | 1367 | 237;137 |
| 1368 | 137;37 | 1370 | 938;838 |
| 1371 | 838;738 | 1372 | 738;638 |
| 1373 | 638;538 | 1374 | 538;438 |
| 1375 | 438;338 | 1376 | 338;238 |
| 1377 | 238;138 | 1378 | 138;38 |
| 1380 | 939;839 | 1381 | 839;739 |

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| 1382 | 739;639 | 1383 | 639;539 |
| 1384 | 539;439 | 1385 | 439;339 |
| 1386 | 339;239 | 1387 | 239;139 |
| 1388 | 139;39 | 1390 | 940;840 |
| 1391 | 840;740 | 1392 | 740;640 |
| 1393 | 640;540 | 1394 | 540;440 |
| 1395 | 440;340 | 1396 | 340;240 |
| 1397 | 240;140 | 1398 | 140;40 |
| 1400 | 941;841 | 1401 | 841;741 |
| 1402 | 741;641 | 1403 | 641;541 |
| 1404 | 541;441 | 1405 | 441;341 |
| 1406 | 341;241 | 1407 | 241;141 |
| 1408 | 141;41 | 1410 | 942;842 |
| 1411 | 842;742 | 1412 | 742;642 |
| 1413 | 642;542 | 1414 | 542;442 |
| 1415 | 442;342 | 1416 | 342;242 |
| 1417 | 242;142 | 1418 | 142;42 |
| 1420 | 943;843 | 1421 | 843;743 |
| 1422 | 743;643 | 1423 | 643;543 |
| 1424 | 543;443 | 1425 | 443;343 |
| 1426 | 343;243 | 1427 | 243;143 |
| 1428 | 143;43 | 1430 | 944;844 |
| 1431 | 844;744 | 1432 | 744;644 |
| 1433 | 644;544 | 1434 | 544;444 |
| 1435 | 444;344 | 1436 | 344;244 |
| 1437 | 244;144 | 1438 | 144;44 |
| 1440 | 945;845 | 1441 | 845;745 |
| 1442 | 745;645 | 1443 | 645;545 |
| 1444 | 545;445 | 1445 | 445;345 |
| 1446 | 345;245 | 1447 | 245;145 |
| 1448 | 145;45 | 1450 | 946;846 |
| 1451 | 846;746 | 1452 | 746;646 |
| 1453 | 646;546 | 1454 | 546;446 |
| 1455 | 446;346 | 1456 | 346;246 |
| 1457 | 246;146 | 1458 | 146;46 |
| 1460 | 947;847 | 1461 | 847;747 |
| 1462 | 747;647 | 1463 | 647;547 |
| 1464 | 547;447 | 1465 | 447;347 |
| 1466 | 347;247 | 1467 | 247;147 |
| 1468 | 147;47 | 1470 | 948;848 |
| 1471 | 848;748 | 1472 | 748;648 |
| 1473 | 648;548 | 1474 | 548;448 |
| 1475 | 448;348 | 1476 | 348;248 |
| 1477 | 248;148 | 1478 | 148;48 |
| 1480 | 949;849 | 1481 | 849;749 |
| 1482 | 749;649 | 1483 | 649;549 |
| 1484 | 549;449 | 1485 | 449;349 |
| 1486 | 349;249 | 1487 | 249;149 |
| 1488 | 149;49 | 1490 | 950;850 |
| 1491 | 850;750 | 1492 | 750;650 |
| 1493 | 650;550 | 1494 | 550;450 |
| 1495 | 450;350 | 1496 | 350;250 |
| 1497 | 250;150 | 1498 | 150;50 |
| 1500 | 951;851 | 1501 | 851;751 |
| 1502 | 751;651 | 1503 | 651;551 |
| 1504 | 551;451 | 1505 | 451;351 |
| 1506 | 351;251 | 1507 | 251;151 |
| 1508 | 151;51 | 1510 | 952;852 |
| 1511 | 852;752 | 1512 | 752;652 |
| 1513 | 652;552 | 1514 | 552;452 |
| 1515 | 452;352 | 1516 | 352;252 |
| 1517 | 252;152 | 1518 | 152;52 |
| 1520 | 953;853 | 1521 | 853;753 |
| 1522 | 753;653 | 1523 | 653;553 |
| 1524 | 553;453 | 1525 | 453;353 |
| 1526 | 353;253 | 1527 | 253;153 |
| 1528 | 153;53 | 1530 | 954;854 |
| 1531 | 854;754 | 1532 | 754;654 |
| 1533 | 654;554 | 1534 | 554;454 |
| 1535 | 454;354 | 1536 | 354;254 |

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| 1537 | 254;154 | 1538 | 154;54 |
| 1540 | 955;855 | 1541 | 855;755 |
| 1542 | 755;655 | 1543 | 655;555 |
| 1544 | 555;455 | 1545 | 455;355 |
| 1546 | 355;255 | 1547 | 255;155 |
| 1548 | 155;55 | 1550 | 956;856 |
| 1551 | 856;756 | 1552 | 756;656 |
| 1553 | 656;556 | 1554 | 556;456 |
| 1555 | 456;356 | 1556 | 356;256 |
| 1557 | 256;156 | 1558 | 156;56 |
| 1560 | 957;857 | 1561 | 857;757 |
| 1562 | 757;657 | 1563 | 657;557 |
| 1564 | 557;457 | 1565 | 457;357 |
| 1566 | 357;257 | 1567 | 257;157 |
| 1568 | 157;57 | 1570 | 958;858 |
| 1571 | 858;758 | 1572 | 758;658 |
| 1573 | 658;558 | 1574 | 558;458 |
| 1575 | 458;358 | 1576 | 358;258 |
| 1577 | 258;158 | 1578 | 158;58 |
| 1580 | 959;859 | 1581 | 859;759 |
| 1582 | 759;659 | 1583 | 659;559 |
| 1584 | 559;459 | 1585 | 459;359 |
| 1586 | 359;259 | 1587 | 259;159 |
| 1588 | 159;59 | 1590 | 960;860 |
| 1591 | 860;760 | 1592 | 760;660 |
| 1593 | 660;560 | 1594 | 560;460 |
| 1595 | 460;360 | 1596 | 360;260 |
| 1597 | 260;160 | 1598 | 160;5725 |
| 1600 | 961;861 | 1601 | 861;761 |
| 1602 | 761;661 | 1603 | 661;561 |
| 1604 | 561;461 | 1605 | 461;361 |
| 1606 | 361;261 | 1607 | 261;161 |
| 1608 | 161;5786 | 1610 | 962;862 |
| 1611 | 862;762 | 1612 | 762;662 |
| 1613 | 662;562 | 1614 | 562;462 |
| 1615 | 462;362 | 1616 | 362;262 |
| 1617 | 262;162 | 1618 | 162;62 |
| 1620 | 963;863 | 1621 | 863;763 |
| 1622 | 763;663 | 1623 | 663;563 |
| 1624 | 563;463 | 1625 | 463;363 |
| 1626 | 363;263 | 1627 | 263;163 |
| 1628 | 163;63 | 1630 | 964;864 |
| 1631 | 864;764 | 1632 | 764;664 |
| 1633 | 664;564 | 1634 | 564;464 |
| 1635 | 464;364 | 1636 | 364;264 |
| 1637 | 264;164 | 1638 | 164;64 |
| 1640 | 965;865 | 1641 | 865;765 |
| 1642 | 765;665 | 1643 | 665;565 |
| 1644 | 565;465 | 1645 | 465;365 |
| 1646 | 365;265 | 1647 | 265;165 |
| 1648 | 165;65 | 1650 | 966;866 |
| 1651 | 866;766 | 1652 | 766;666 |
| 1653 | 666;566 | 1654 | 566;466 |
| 1655 | 466;366 | 1656 | 366;266 |
| 1657 | 266;166 | 1658 | 166;66 |
| 1660 | 967;867 | 1661 | 867;767 |
| 1662 | 767;667 | 1663 | 667;567 |
| 1664 | 567;467 | 1665 | 467;367 |
| 1666 | 367;267 | 1667 | 267;167 |
| 1668 | 167;67 | 1740 | 975;875 |
| 1750 | 976;876 | 1760 | 977;877 |
| 1770 | 978;878 | 1771 | 878;778 |
| 1772 | 778;678 | 1773 | 678;578 |
| 1774 | 578;478 | 1775 | 478;378 |
| 1776 | 378;278 | 1777 | 278;178 |
| 1778 | 178;78 | 1780 | 979;879 |
| 1781 | 879;779 | 1782 | 779;679 |
| 1783 | 679;579 | 1784 | 579;479 |
| 1785 | 479;379 | 1786 | 379;279 |
| 1787 | 279;179 | 1788 | 179;70 |

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| 1790 | 980;880 | 1791 | 880;780 |
| 1792 | 780;680 | 1793 | 680;580 |
| 1794 | 580;480 | 1795 | 480;380 |
| 1796 | 380;280 | 1797 | 280;180 |
| 1798 | 180;71 | 1800 | 981;881 |
| 1801 | 881;781 | 1802 | 781;681 |
| 1803 | 681;581 | 1804 | 581;481 |
| 1805 | 481;381 | 1806 | 381;281 |
| 1807 | 281;181 | 1808 | 181;72 |
| 1810 | 982;882 | 1811 | 882;782 |
| 1812 | 782;682 | 1813 | 682;582 |
| 1814 | 582;482 | 1815 | 482;382 |
| 1816 | 382;282 | 1817 | 282;182 |
| 1818 | 182;73 | 1820 | 983;883 |
| 1821 | 883;783 | 1822 | 783;683 |
| 1823 | 683;583 | 1824 | 583;483 |
| 1825 | 483;383 | 1826 | 383;283 |
| 1827 | 283;183 | 1828 | 183;83 |
| 1830 | 984;884 | 1831 | 884;784 |
| 1832 | 784;684 | 1833 | 684;584 |
| 1834 | 584;484 | 1835 | 484;384 |
| 1836 | 384;284 | 1837 | 284;184 |
| 1838 | 184;84 | 1862 | 769;669 |
| 1872 | 770;670 | 1882 | 771;671 |
| 1943 | 668;568 | 2000 | 801;701 |
| 2001 | 701;601 | 2002 | 601;501 |
| 2004 | 401;301 | 2006 | 201;101 |
| 2010 | 802;702 | 2011 | 702;602 |
| 2012 | 602;502 | 2016 | 202;102 |
| 2020 | 803;703 | 2021 | 703;603 |
| 2022 | 603;503 | 2023 | 676;576 |
| 2026 | 203;103 | 2030 | 804;704 |
| 2031 | 704;604 | 2032 | 604;504 |
| 2033 | 677;577 | 2040 | 805;705 |
| 2041 | 705;605 | 2042 | 605;505 |
| 2043 | 505;405 | 2045 | 305;205 |
| 2050 | 806;706 | 2051 | 706;606 |
| 2052 | 606;506 | 2053 | 506;406 |
| 2055 | 306;206 | 2060 | 807;707 |
| 2061 | 707;607 | 2062 | 607;507 |
| 2063 | 507;407 | 2065 | 307;207 |
| 2070 | 808;708 | 2071 | 708;608 |
| 2072 | 608;508 | 2073 | 508;408 |
| 2080 | 809;709 | 2081 | 709;609 |
| 2082 | 609;509 | 2083 | 509;409 |
| 2084 | 573;473 | 2090 | 810;710 |
| 2091 | 710;610 | 2092 | 610;510 |
| 2093 | 510;410 | 2094 | 574;474 |
| 2100 | 811;711 | 2101 | 711;611 |
| 2102 | 611;511 | 2103 | 511;411 |
| 2104 | 575;475 | 2106 | 211;111 |
| 2110 | 812;712 | 2111 | 712;612 |
| 2112 | 612;512 | 2113 | 512;412 |
| 2114 | 576;476 | 2116 | 212;112 |
| 2120 | 813;713 | 2121 | 713;613 |
| 2122 | 613;513 | 2123 | 513;413 |
| 2124 | 577;477 | 2126 | 213;113 |
| 2130 | 814;714 | 2131 | 714;614 |
| 2132 | 614;514 | 2133 | 514;414 |
| 2134 | 414;314 | 2140 | 815;715 |
| 2141 | 715;615 | 2142 | 615;515 |
| 2143 | 515;415 | 2144 | 415;315 |
| 2145 | 470;370 | 2150 | 816;716 |
| 2151 | 716;616 | 2152 | 616;516 |
| 2153 | 516;416 | 2154 | 416;316 |
| 2155 | 471;371 | 2160 | 817;717 |
| 2161 | 717;617 | 2162 | 617;517 |
| 2163 | 517;417 | 2164 | 417;317 |
| 2165 | 472;372 | 2170 | 818;718 |
| 2171 | 718;618 | 2172 | 618;518 |

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| 2173 | 518;418 | 2174 | 418;318 |
| 2175 | 473;373 | 2180 | 819;719 |
| 2181 | 719;619 | 2182 | 619;519 |
| 2183 | 519;419 | 2184 | 419;319 |
| 2185 | 474;374 | 2190 | 820;720 |
| 2191 | 720;620 | 2192 | 620;520 |
| 2193 | 520;420 | 2194 | 420;320 |
| 2195 | 475;375 | 2200 | 821;721 |
| 2201 | 721;621 | 2202 | 621;521 |
| 2203 | 521;421 | 2204 | 421;321 |
| 2205 | 476;376 | 2206 | 221;121 |
| 2210 | 822;722 | 2211 | 722;622 |
| 2212 | 622;522 | 2213 | 522;422 |
| 2214 | 422;322 | 2215 | 477;377 |
| 2216 | 368;268 | 2220 | 823;723 |
| 2221 | 723;623 | 2222 | 623;523 |
| 2223 | 523;423 | 2224 | 423;323 |
| 2225 | 323;223 | 2226 | 369;269 |
| 2230 | 824;724 | 2231 | 724;624 |
| 2232 | 624;524 | 2233 | 524;424 |
| 2234 | 424;324 | 2235 | 324;224 |
| 2236 | 370;270 | 2240 | 825;725 |
| 2241 | 725;625 | 2242 | 625;525 |
| 2243 | 525;425 | 2244 | 425;325 |
| 2245 | 325;225 | 2246 | 371;271 |
| 2250 | 826;726 | 2251 | 726;626 |
| 2252 | 626;526 | 2253 | 526;426 |
| 2254 | 426;326 | 2255 | 326;226 |
| 2256 | 372;272 | 2260 | 827;727 |
| 2261 | 727;627 | 2262 | 627;527 |
| 2263 | 527;427 | 2264 | 427;327 |
| 2265 | 327;227 | 2266 | 373;273 |
| 2270 | 828;728 | 2271 | 728;628 |
| 2272 | 628;528 | 2273 | 528;428 |
| 2274 | 428;328 | 2275 | 328;228 |
| 2276 | 374;274 | 2280 | 829;729 |
| 2281 | 729;629 | 2282 | 629;529 |
| 2283 | 529;429 | 2284 | 429;329 |
| 2285 | 329;229 | 2286 | 375;275 |
| 2290 | 830;730 | 2291 | 730;630 |
| 2292 | 630;530 | 2293 | 530;430 |
| 2294 | 430;330 | 2295 | 330;230 |
| 2296 | 376;276 | 2300 | 831;731 |
| 2301 | 731;631 | 2302 | 631;531 |
| 2303 | 531;431 | 2304 | 431;331 |
| 2305 | 331;231 | 2306 | 377;277 |
| 2307 | 268;168 | 2310 | 832;732 |
| 2311 | 732;632 | 2312 | 632;532 |
| 2313 | 532;432 | 2314 | 432;332 |
| 2315 | 332;232 | 2316 | 232;132 |
| 2317 | 269;169 | 2320 | 833;733 |
| 2321 | 733;633 | 2322 | 633;533 |
| 2323 | 533;433 | 2324 | 433;333 |
| 2325 | 333;233 | 2326 | 233;133 |
| 2327 | 270;170 | 2330 | 834;734 |
| 2331 | 734;634 | 2332 | 634;534 |
| 2333 | 534;434 | 2334 | 434;334 |
| 2335 | 334;234 | 2336 | 234;134 |
| 2337 | 271;171 | 2340 | 835;735 |
| 2341 | 735;635 | 2342 | 635;535 |
| 2343 | 535;435 | 2344 | 435;335 |
| 2345 | 335;235 | 2346 | 235;135 |
| 2347 | 272;172 | 2350 | 836;736 |
| 2351 | 736;636 | 2352 | 636;536 |
| 2353 | 536;436 | 2354 | 436;336 |
| 2355 | 336;236 | 2356 | 236;136 |
| 2357 | 273;173 | 2360 | 837;737 |
| 2361 | 737;637 | 2362 | 637;537 |
| 2363 | 537;437 | 2364 | 437;337 |
| 2365 | 337;237 | 2366 | 237;137 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 30 |
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|------|---------|------|----------|
| 2367 | 274;174 | 2370 | 838;738 |
| 2371 | 738;638 | 2372 | 638;538 |
| 2373 | 538;438 | 2374 | 438;338 |
| 2375 | 338;238 | 2376 | 238;138 |
| 2377 | 275;175 | 2380 | 839;739 |
| 2381 | 739;639 | 2382 | 639;539 |
| 2383 | 539;439 | 2384 | 439;339 |
| 2385 | 339;239 | 2386 | 239;139 |
| 2387 | 276;176 | 2390 | 840;740 |
| 2391 | 740;640 | 2392 | 640;540 |
| 2393 | 540;440 | 2394 | 440;340 |
| 2395 | 340;240 | 2396 | 240;140 |
| 2397 | 277;177 | 2398 | 168;68 |
| 2400 | 841;741 | 2401 | 741;641 |
| 2402 | 641;541 | 2403 | 541;441 |
| 2404 | 441;341 | 2405 | 341;241 |
| 2406 | 241;141 | 2408 | 169;69 |
| 2410 | 842;742 | 2411 | 742;642 |
| 2412 | 642;542 | 2413 | 542;442 |
| 2414 | 442;342 | 2415 | 342;242 |
| 2416 | 242;142 | 2418 | 170;6581 |
| 2420 | 843;743 | 2421 | 743;643 |
| 2422 | 643;543 | 2423 | 543;443 |
| 2424 | 443;343 | 2425 | 343;243 |
| 2426 | 243;143 | 2428 | 171;6582 |
| 2430 | 844;744 | 2431 | 744;644 |
| 2432 | 644;544 | 2433 | 544;444 |
| 2434 | 444;344 | 2435 | 344;244 |
| 2436 | 244;144 | 2438 | 172;6583 |
| 2440 | 845;745 | 2441 | 745;645 |
| 2442 | 645;545 | 2443 | 545;445 |
| 2444 | 445;345 | 2445 | 345;245 |
| 2446 | 245;145 | 2448 | 173;6584 |
| 2450 | 846;746 | 2451 | 746;646 |
| 2452 | 646;546 | 2453 | 546;446 |
| 2454 | 446;346 | 2455 | 346;246 |
| 2456 | 246;146 | 2458 | 174;74 |
| 2460 | 847;747 | 2461 | 747;647 |
| 2462 | 647;547 | 2463 | 547;447 |
| 2464 | 447;347 | 2465 | 347;247 |
| 2466 | 247;147 | 2468 | 175;75 |
| 2470 | 848;748 | 2471 | 748;648 |
| 2472 | 648;548 | 2473 | 548;448 |
| 2474 | 448;348 | 2475 | 348;248 |
| 2476 | 248;148 | 2478 | 176;76 |
| 2480 | 849;749 | 2481 | 749;649 |
| 2482 | 649;549 | 2483 | 549;449 |
| 2484 | 449;349 | 2485 | 349;249 |
| 2486 | 249;149 | 2488 | 177;77 |
| 2490 | 850;750 | 2491 | 750;650 |
| 2492 | 650;550 | 2493 | 550;450 |
| 2494 | 450;350 | 2495 | 350;250 |
| 2496 | 250;150 | 2500 | 851;751 |
| 2501 | 751;651 | 2502 | 651;551 |
| 2503 | 551;451 | 2504 | 451;351 |
| 2505 | 351;251 | 2506 | 251;151 |
| 2510 | 852;752 | 2511 | 752;652 |
| 2512 | 652;552 | 2513 | 552;452 |
| 2514 | 452;352 | 2515 | 352;252 |
| 2516 | 252;152 | 2520 | 853;753 |
| 2521 | 753;653 | 2522 | 653;553 |
| 2523 | 553;453 | 2524 | 453;353 |
| 2525 | 353;253 | 2526 | 253;153 |
| 2530 | 854;754 | 2531 | 754;654 |
| 2532 | 654;554 | 2533 | 554;454 |
| 2534 | 454;354 | 2535 | 354;254 |
| 2536 | 254;154 | 2540 | 855;755 |
| 2541 | 755;655 | 2542 | 655;555 |
| 2543 | 555;455 | 2544 | 455;355 |
| 2545 | 355;255 | 2546 | 255;155 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 31 |
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|------|---------|------|---------|
| 2550 | 856;756 | 2551 | 756;656 |
| 2552 | 656;556 | 2553 | 556;456 |
| 2554 | 456;356 | 2555 | 356;256 |
| 2556 | 256;156 | 2560 | 857;757 |
| 2570 | 858;758 | 2580 | 859;759 |
| 2590 | 860;760 | 2600 | 861;761 |
| 2610 | 862;762 | 2620 | 863;763 |
| 2630 | 864;764 | 2640 | 865;765 |
| 2650 | 866;766 | 2660 | 867;767 |
| 2661 | 757;657 | 2670 | 868;768 |
| 2671 | 768;668 | 2672 | 668;568 |
| 2673 | 568;468 | 2674 | 468;368 |
| 2675 | 368;268 | 2676 | 268;168 |
| 2680 | 869;769 | 2681 | 769;669 |
| 2682 | 669;569 | 2683 | 569;469 |
| 2684 | 469;369 | 2685 | 369;269 |
| 2686 | 269;169 | 2690 | 870;770 |
| 2691 | 770;670 | 2692 | 670;570 |
| 2693 | 570;470 | 2694 | 470;370 |
| 2695 | 370;270 | 2696 | 270;170 |
| 2700 | 871;771 | 2701 | 771;671 |
| 2702 | 671;571 | 2703 | 571;471 |
| 2704 | 471;371 | 2705 | 371;271 |
| 2706 | 271;171 | 2710 | 872;772 |
| 2711 | 772;672 | 2712 | 672;572 |
| 2713 | 572;472 | 2714 | 472;372 |
| 2715 | 372;272 | 2716 | 272;172 |
| 2720 | 873;773 | 2721 | 773;673 |
| 2722 | 673;573 | 2723 | 573;473 |
| 2724 | 473;373 | 2725 | 373;273 |
| 2726 | 273;173 | 2730 | 874;774 |
| 2731 | 774;674 | 2732 | 674;574 |
| 2733 | 574;474 | 2734 | 474;374 |
| 2735 | 374;274 | 2736 | 274;174 |
| 2740 | 875;775 | 2741 | 775;675 |
| 2742 | 675;575 | 2743 | 575;475 |
| 2744 | 475;375 | 2745 | 375;275 |
| 2746 | 275;175 | 2750 | 876;776 |
| 2751 | 776;676 | 2752 | 676;576 |
| 2753 | 576;476 | 2754 | 476;376 |
| 2755 | 376;276 | 2756 | 276;176 |
| 2760 | 877;777 | 2761 | 777;677 |
| 2762 | 677;577 | 2763 | 577;477 |
| 2764 | 477;377 | 2765 | 377;277 |
| 2766 | 277;177 | 2770 | 878;778 |
| 2771 | 778;678 | 2772 | 678;578 |
| 2773 | 578;478 | 2774 | 478;378 |
| 2775 | 378;278 | 2776 | 278;178 |
| 2780 | 879;779 | 2781 | 779;679 |
| 2782 | 679;579 | 2783 | 579;479 |
| 2784 | 479;379 | 2785 | 379;279 |
| 2786 | 279;179 | 2790 | 880;780 |
| 2791 | 780;680 | 2792 | 680;580 |
| 2793 | 580;480 | 2794 | 480;380 |
| 2795 | 380;280 | 2796 | 280;180 |
| 2800 | 881;781 | 2801 | 781;681 |
| 2802 | 681;581 | 2803 | 581;481 |
| 2804 | 481;381 | 2805 | 381;281 |
| 2806 | 281;181 | 2810 | 882;782 |
| 2811 | 782;682 | 2812 | 682;582 |
| 2813 | 582;482 | 2814 | 482;382 |
| 2815 | 382;282 | 2816 | 282;182 |
| 2820 | 883;783 | 2821 | 783;683 |
| 2822 | 683;583 | 2823 | 583;483 |
| 2824 | 483;383 | 2825 | 383;283 |
| 2826 | 283;183 | 2830 | 884;784 |
| 2831 | 784;684 | 2832 | 684;584 |
| 2833 | 584;484 | 2834 | 484;384 |
| 2835 | 384;284 | 2836 | 284;184 |
| 2842 | 665;565 | 2863 | 557;457 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 32 |
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|------|-----------|-------|-----------|
| 2873 | 558;458 | 2883 | 559;459 |
| 2893 | 560;460 | 2903 | 561;461 |
| 2913 | 562;462 | 2923 | 563;463 |
| 2933 | 564;464 | 2964 | 457;357 |
| 2974 | 458;358 | 2984 | 459;359 |
| 2994 | 460;360 | 3004 | 461;361 |
| 3014 | 462;362 | 3024 | 463;363 |
| 3010 | 3714;3718 | 3011 | 3719;3720 |
| 3020 | 5046;289 | 3021 | 4246;589 |
| 3030 | 5346;389 | 3031 | 4846;688 |
| 3065 | 357;257 | 3075 | 358;258 |
| 3085 | 359;259 | 3095 | 360;260 |
| 3105 | 361;261 | 3115 | 362;262 |
| 3166 | 257;157 | 3176 | 258;158 |
| 3186 | 259;159 | 3196 | 260;160 |
| 3206 | 261;161 | 4000 | 1301;1300 |
| 4001 | 1401;1400 | 4002 | 1601;1600 |
| 4003 | 1501;1500 | 30072 | 767;667 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 33 |
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4. Deactivate elements

Attribute: 3 Title: Deactivate 1

Sub Type = Deactivate

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscf | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 1

Assignment to Lines:

112T184;212T284;312T384;412T484;512T584;612T684;712T784;812T884;1110T1118;1120T1128;1130T1138;1140T1148;1150T1158;1160T1168;1170T1178;1180T1188;1190T1198;1200T1208;1210T1218;1220T1228;1230T1238;1240T1248;1250T1258;1260T1268;1270T1278;1280T1288;1290T1298;1300T1308;1310T1318;1320T1328;1330T1338;1340T1348;1350T1358;1360T1368;1370T1378;1380T1388;1390T1398;1400T1408;1410T1418;1420T1428;1430T1438;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094;2104;2110T2114;2116;2120;2121T2124;2126;2130;2131T2134;2140T2145;2150T2155;2160T2165;2170T2175;2180T2185;2190T2195;2200T2206;2210T2216;2220T2226;2230T2236;2240T2246;2250T2256;2260T2266;2270T2276;2280T2286;2290T2296;2300T2307;2310T2317;2320T2327;2330T2337;2340T2347;2350T2357;2360T2367;2370T2377;2380T2387;2390T2398;2400T2406;2408;2410;2411T2416;2418;2420;2421T2426;2428;2430;2431T2436;2438;2440;2441T2446;2448;2450;2451T2456;2458;2460;2461T2466;2468;2470;2471T2476;2478;2480;2481T2486;2488;2490;2491T2496;2500T2506;2510T2516;2520T2526;2530T2536;2540T2546;2550T2556;2560T2660I10;2661;2670;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2863;2873T2933I10;2964T3024I10;3065T3115I10;3166T3206I10;4000T4003;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;34787;34797;34798T34888I10;34889T34979I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38946T38966I10;38967T39027I10;40828T40848I10;43519T43599I10;43610;46384;46394T46444I10

I rapport används bokstaven "Deactivate" för att beskriva vilka konstruktionsdelar
Som ej är statisk verksam.

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 34 |
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Attribute: 4 Title: Deactivate 2

Sub Type = Deactivate

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscf | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 2

Assignment to Lines:

122T184;222T284;322T384;422T484;522T584;622T684;722T784;822T884;1210T1218;1220T1228;1230T1238;1240T1248;1250T1258;1260T1268;1270T1278;1280T1288;1290T1298;1300T1308;1310T1318;1320T1328;1330T1338;1340T1348;1350T1358;1360T1368;1370T1378;1380T1388;1390T1398;1400T1408;1410T1418;1420T1428;1430T1438;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2205I10;2210T2216;2220T2226;2230T2236;2240T2246;2250T2256;2260T2266;2270T2276;2280T2286;2290T2296;2300T2307;2310T2317;2320T2327;2330T2337;2340T2347;2350T2357;2360T2367;2370T2377;2380T2387;2390T2398;2400T2406;2408;2410;2411T2416;2418;2420;2421T2426;2428;2430;2431T2436;2438;2440;2441T2446;2448;2450;2451T2456;2458;2460;2461T2466;2468;2470;2471T2476;2478;2480;2481T2486;2488;2490;2491T2496;2500T2506;2510T2516;2520T2526;2530T2536;2540T2546;2550T2556;2560T2660I10;2661;2670;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2863;2873T2933I10;2964T3024I10;3065T3115I10;3166T3206I10;4001T4003;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;34888;34889;34899T34979I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10;43519T43599I10;43610;46384;46394T46444I10

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| Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 35 |
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Attribute: 2 Title: Deactivate 3

Sub Type = Deactivate

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscf | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 3

Assignment to Lines:

131T184;231T284;331T384;431T484;531T584;631T684;731T784;831T884;1300T1308;1310T1318;1320T1328;1330T1338;1340T1348;1350T1358;1360T1368;1370T1378;1380T1388;1390T1398;1400T1408;1410T1418;1420T1428;1430T1438;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2215I10;2216T2296I10;2300T2307;2310T2317;2320T2327;2330T2337;2340T2347;2350T2357;2360T2367;2370T2377;2380T2387;2390T2398;2400T2406;2408;2410;2411T2416;2418;2420;2421T2426;2428;2430;2431T2436;2438;2440;2441T2446;2448;2450;2451T2456;2458;2460;2461T2466;2468;2470;2471T2476;2478;2480;2481T2486;2488;2490;2491T2496;2500T2506;2510T2516;2520T2526;2530T2536;2540T2546;2550T2556;2560T2660I10;2661;2670;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2863;2873T2933I10;2964T3024I10;3065T3115I10;3166T3206I10;4002;4003;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;34979;36649;36659T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10;43519T43599I10;43610;46384;46394T46444I10

Attribute: 1 Title: Deactivate 4

Sub Type = Deactivate

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscf | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 4

Assignment to Lines:

145T184;245T284;345T384;445T484;545T584;645T684;745T784;845T884;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;2398T2438I10;2440T2446;2448;2450;2451T2456;2458;2460;2461T2466;2468;2470;2471T2476;2478;2480;2481T2486;2488;2490;2491T2496;2500T2506;2510T2516;2520T2526;2530T2536;2540T2546;2550T2556;2560T2660I10;2661;2670;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2863;2873T2933I10;2964T3024I10;3065T3115I10;3166T3206I10;4002;4093;4094T4096;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10;43519T43599I10;43610;46384;46394T46444I10

Attribute: 5 Title: Deactivate 5

Sub Type = Deactivate

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscf | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 5

Assignment to Lines:

158T184;258T284;358T384;458T484;558T584;658T684;758T784;858T884;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;2398T2488I10;2570T2670I10;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2873;2883T2933I10;2974T3024I10;3075T3115I10;3176T3206I10;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10;43519T43599I10;46384T46444I10

Attribute: 6 Title: Deactivate 6

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 36 |
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Sub Type = Deactivate

Property

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscl | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 6

Assignment to Lines:

168T184;268T284;368T384;468T484;568T584;668T684;768T784;868T884;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;2398T2488I10;2670T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10

Attribute: 7 Title: Deactivate 7

Sub Type = Deactivate

Property

| Property | Symbol | Value |
|---|---------------|--------|
| Percentage of internal forces to be redistributed | percent | 100,0 |
| Stiffness reduction factor | stfscl | 0,0 |
| Process constraint equations | createConstr | false |
| Constraint equation type | constrEquType | "none" |
| Increments | ninc | 1 |

Assigned in: Analysis 7

Assignment to Lines:

178T184;278T284;378T384;478T484;578T584;678T684;778T784;878T884;1770T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 37 |
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5. MESH:Line

Attribute: 4 Title: Beam - element 2

Sub Type = Line Mesh Element Type = BMI21

| Mesh spacing | Nr. of elements | Start node end releases: | End node end releases: |
|--------------|-----------------|--------------------------|------------------------|
| Uniform | 2 | None | None |

Assignment to Lines: Beta angle = 0,0

1001T1007;1011T1017;1021T1027;1031T1037;1041T1047;1051T1057;1061T1067;1071T1077;1081T1087;1091T1097;1101T1107;1111T1117;1121T1127;1131T1137;1141T1147;1151T1157;1161T1167;1171T1177;1181T1187;1191T1197;1201T1207;1211T1217;1221T1227;1231T1237;1241T1247;1251T1257;1261T1267;1271T1277;1281T1287;1291T1297;1301T1307;1311T1317;1321T1327;1331T1337;1341T1347;1351T1357;1361T1367;1371T1377;1381T1387;1391T1397;1401T1407;1411T1417;1421T1427;1431T1437;1441T1447;1451T1457;1461T1467;1471T1477;1481T1487;1491T1497;1501T1507;1511T1517;1521T1527;1531T1537;1541T1547;1551T1557;1561T1567;1571T1577;1581T1587;1591T1597;1601T1607;1611T1617;1621T1627;1631T1637;1641T1647;1651T1657;1661T1667;1671T1677;1681T1687;1691T1697;1701T1707;1711T1717;1721T1727;1731T1737;1741T1747;1751T1757;1761T1767;1771T1777;1781T1787;1791T1797;1801T1807;1811T1817;1821T1827;1831T1837;1841T1847;1851T1857;1861T1867;1871T1877;1881T1887;1891T1897;1901T1907;1911T1917;1921T1927;1931T1937;1941T1947;1951T1957;1961T1967;1971T1977;1981T1987;1991T1997;2001T2007;2011T2017;2021T2027;2031T2037;2041T2047;2051T2057;2061T2067;2071T2077;2081T2087;2091T2097;2101T2107;2111T2117;2121T2127;2131T2137;2141T2147;2151T2157;2161T2167;2171T2177;2181T2187;2191T2197;2201T2207;2211T2217;2221T2227;2231T2237;2241T2247;2251T2257;2261T2267;2271T2277;2281T2287;2291T2297;2301T2307;2311T2317;2321T2327;2331T2337;2341T2347;2351T2357;2361T2367;2371T2377;2381T2387;2391T2397;2401T2407;2411T2417;2421T2427;2431T2437;2441T2447;2451T2457;2461T2467;2471T2477;2481T2487;2491T2497;2501T2507;2511T2517;2521T2527;2531T2537;2541T2547;2551T2557;2561T2567;2571T2577;2581T2587;2591T2597;2601T2607;2611T2617;2621T2627;2631T2637;2641T2647;2651T2657;2661T2667;2671T2677;2681T2687;2691T2697;2701T2707;2711T2717;2721T2727;2731T2737;2741T2747;2751T2757;2761T2767;2771T2777;2781T2787;2791T2797;2801T2807;2811T2817;2821T2827;2831T2837;2841T2847;2851T2857;2861T2867;2871T2877;2881T2887;2891T2897;2901T2907;2911T2917;2921T2927;2931T2937;2941T2947;2951T2957;2961T2967;2971T2977;2981T2987;2991T2997;3001T3007;3011T3017;3021T3027;3031T3037;3041T3047;3051T3057;3061T3067;3071T3077;3081T3087;3091T3097;3101T3107;3111T3117;3121T3127;3131T3137;3141T3147;3151T3157;3161T3167;3171T3177;3181T3187;3191T3197;3201T3207;3211T3217;3221T3227;3231T3237;3241T3247;3251T3257;3261T3267;3271T3277;3281T3287;3291T3297;3301T3307;3311T3317;3321T3327;3331T3337;3341T3347;3351T3357;3361T3367;3371T3377;3381T3387;3391T3397;3401T3407;3411T3417;3421T3427;3431T3437;3441T3447;3451T3457;3461T3467;3471T3477;3481T3487;3491T3497;3501T3507;3511T3517;3521T3527;3531T3537;3541T3547;3551T3557;3561T3567;3571T3577;3581T3587;3591T3597;3601T3607;3611T3617;3621T3627;3631T3637;3641T3647;3651T3657;3661T3667;3671T3677;3681T3687;3691T3697;3701T3707;3711T3717;3721T3727;3731T3737;3741T3747;3751T3757;3761T3767;3771T3777;3781T3787;3791T3797;3801T3807;3811T3817;3821T3827;3831T3837;3841T3847;3851T3857;3861T3867;3871T3877;3881T3887;3891T3897;3901T3907;3911T3917;3921T3927;3931T3937;3941T3947;3951T3957;3961T3967;3971T3977;3981T3987;3991T3997;4001T4007

Attribute: 5 Title: Beam - element 1

Sub Type = Line Mesh Element Type = BMI21

| Mesh spacing | Nr. of elements | Start node end releases: | End node end releases: |
|--------------|-----------------|--------------------------|------------------------|
| Uniform | 1 | None | None |

Assignment to Lines: Beta angle = 0,0

100T184;200T284;300T384;400T484;500T584;600T684;700T784;800T884;1000;1008;1010;1018;1020;1028;1030;1038;1040;1048;1050;1058;1060;1068;1070;1078;1080;1088;1090;1098;1100;1108;1110;1118;1120;1128;1130;1138;1140;1148;1150;1158;1160;1168;1170;1178;1180;1188;1190;1198;1200;1208;1210;1218;1220;1228;1230;1238;1240;1248;1250;1258;1260;1268;1270;1278;1280;1288;1290;1298;1300;1308;1310;1318;1320;1328;1330;1338;1340;1348;1350;1358;1360;1368;1370;1378;1380;1388;1390;1398;1400;1408;1410;1418;1420;1428;1430;1438;1440;1448;1450;1458;1460;1468;1470;1478;1480;1488;1490;1498;1500;1508;1510;1518;1520;1528;1530;1538;1540;1548;1550;1558;1560;1568;1570;1578;1580;1588;1590;1598;1600;1608;1610;1618;1620;1628;1630;1638;1640;1648;1650;1658;1660;1668;1740T1770;1778;1780;1788;1790;1798;1800;1808;1810;1818;1820;1828;1830;1838;2398;2408T2488;36649T36709

Attribute: 8 Title: Beam - element 5

Sub Type = Line Mesh Element Type = BMI21

| Mesh spacing | Nr. of elements | Start node end releases: | End node end releases: |
|--------------|-----------------|--------------------------|------------------------|
| Uniform | 5 | None | None |

Assignment to Lines: Beta angle = 0,0

4000T4003

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 38 |
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6. Geometric : Line

6.1 Transversal beams varying – 2 sections

| Symbol | Property |
|--------------------|---|
| elementType | Element type |
| isSpecifyInterp | Interpolation order specified |
| isEqualSpacing | Equal spacing assumed |
| isSymmetry | Symmetry |
| distanceType | Distance type |
| vAlign | Vertical alignment eccentricity |
| hAlign | Horizontal alignment eccentricity |
| alignToRow | Section to which others are aligned |
| vAlignType | Vertical alignment type |
| hAlignType | Horizontal alignment type |
| interpMethod | Interpolation method |
| reinforcement | Reinforcement |
| A | Cross sectional area |
| Iyy | Second moment of area about y axis |
| Izz | Second moment of area about z axis |
| Iyz | Product moment of area |
| J | Torsional constant |
| ez0 | Eccentricity in local z direction, relative to specified origin |
| ey0 | Eccentricity in local y direction, relative to specified origin |
| ez | Eccentricity in local z direction, relative to beam centroid |
| ey | Eccentricity in local y direction, relative to beam centroid |
| Iyr | Wagner constant 1st moment of square radius about y (Iyr) |
| Izr | Wagner constant 1st moment of square radius about z (Izr) |
| Irr | Wagner constant 4th moment of area about origin (Irr) |
| Iwr | Wagner constant 2nd moment of warping about origin (Iwr) |
| Asz | Effective shear area in local z direction |
| Asy | Effective shear area in local y direction |
| Ap | Plastic area |
| Zpy | Plastic modulus for bending about y |
| Zpz | Plastic modulus for bending about z |
| yp | Plastic neutral axis, distance from centroid along y axis |
| zp | Plastic neutral axis, distance from centroid along z axis |
| Zpt | Plastic torsional section modulus |
| Cw | Warping torsional constant about shear centre |
| yo | Shear centre about y axis |
| zo | Shear centre about z axis |
| betay | Monosymmetry constant about y |
| betaz | Monosymmetry constant about z |
| ky | Radius of gyration about y axis |
| kz | Radius of gyration about z axis |
| yt | y axis extreme fibre, top |
| yb | y axis extreme fibre, bottom |
| zt | z axis extreme fibre, top |
| zb | z axis extreme fibre, bottom |
| name | Description |
| distanceAlongBeam | Distance along beam |
| interpolationOrder | Interpolation order |
| Type | Shape code identifier |
| B | Breadth of this section |
| D | Depth of this section |

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 39 |
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Attribute: 10 Title: TB - OK 3_1000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,5 | 0,5 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,0 | 0,0 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,4 | 0,4 |
| Asy | 0,4 | 0,4 |
| Ap | 0,5 | 0,5 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,1 | 0,1 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,3 | 0,3 |
| yt | 0,5 | 0,5 |
| yb | -0,5 | -0,5 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 1,0 | 1,0 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:
1001T1007;1831T1837

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 40 |
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Attribute: 11 Title: TB - OK 3_1500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,8 | 0,8 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,1 | 0,1 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,6 | 0,6 |
| Asy | 0,6 | 0,6 |
| Ap | 0,8 | 0,8 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,3 | 0,3 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,2 | 0,2 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,4 | 0,4 |
| yt | 0,8 | 0,8 |
| yb | -0,8 | -0,8 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 1,5 | 1,5 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1201T1207;1431T1437;1561T1567;1661T1667;2033T2397I91;38682;38773

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 41 |
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Attribute: 12 Title: TB - OK 3_2000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|---------------|------------------|------------------|
| A | 1,0 | 1,0 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,3 | 0,3 |
| Iyz | 0,0 | 0,0 |
| J | 0,1 | 0,1 |
| ez0 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,2 | 0,2 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,8 | 0,8 |
| Asy | 0,8 | 0,8 |
| Ap | 1,0 | 1,0 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,5 | 0,5 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,3 | 0,3 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,6 | 0,6 |
| yt | 1,0 | 1,0 |
| yb | -1,0 | -1,0 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 2,0 | 2,0 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1011T1017;1101T1107;1291T1297;1391T1398;1401T1408;1411T1418;1421T1428;1531T1537;1541T1547;2023T2387I91;38672;38763

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 42 |
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Attribute: 13 Title: TB - OK 3_2500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|---------------|------------------|------------------|
| A | 1,3 | 1,3 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,7 | 0,7 |
| Iyz | 0,0 | 0,0 |
| J | 0,1 | 0,1 |
| ez0 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,6 | 0,6 |
| Iwr | 0,0 | 0,0 |
| Asz | 1,0 | 1,0 |
| Asy | 1,0 | 1,0 |
| Ap | 1,3 | 1,3 |
| Zpy | 0,2 | 0,2 |
| Zpz | 0,8 | 0,8 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,4 | 0,4 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,7 | 0,7 |
| yt | 1,3 | 1,3 |
| yb | -1,3 | -1,3 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 2,5 | 2,5 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1081T1087;1091T1097;1191T1197;1551T1557;1651T1657;2104T2377I91;38662T38844I91

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 43 |
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Attribute: 14 Title: TB - OK 3_3000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 1,5 | 1,5 |
| Iyy | 0,0 | 0,0 |
| Izz | 1,1 | 1,1 |
| Iyz | 0,0 | 0,0 |
| J | 0,1 | 0,1 |
| ez0 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 1,6 | 1,6 |
| Iwr | 0,0 | 0,0 |
| Asz | 1,3 | 1,3 |
| Asy | 1,3 | 1,3 |
| Ap | 1,5 | 1,5 |
| Zpy | 0,2 | 0,2 |
| Zpz | 1,1 | 1,1 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,5 | 0,5 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,9 | 0,9 |
| yt | 1,5 | 1,5 |
| yb | -1,5 | -1,5 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 3,0 | 3,0 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1181T1187;1271T1277;1281T1287;1641T1647

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 44 |
| | | Date : | Created : |

Attribute: 26 Title: TB - UK 3_1000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,5 | 0,5 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,0 | 0,0 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,4 | 0,4 |
| Asy | 0,4 | 0,4 |
| Ap | 0,5 | 0,5 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,1 | 0,1 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,3 | 0,3 |
| yt | 0,5 | 0,5 |
| yb | -0,5 | -0,5 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 1,0 | 1,0 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "IndividualOffsets" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2000T2002;2004;2006;2830T2836;32582;34676

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 45 |
| | | Date : | Created : |

Attribute: 27 Title: TB - UK 3_1500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,8 | 0,8 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,1 | 0,1 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,6 | 0,6 |
| Asy | 0,6 | 0,6 |
| Ap | 0,8 | 0,8 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,3 | 0,3 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,2 | 0,2 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,4 | 0,4 |
| yt | 0,8 | 0,8 |
| yb | -0,8 | -0,8 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 1,5 | 1,5 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "IndividualOffsets" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2200T2204;2206;2430;2431T2436;2560;2660;2661;2760;2761T2766;2863T3166I101;30072T30577I101;34878;43610

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 46 |
| | | Date : | Created : |

Attribute: 28 Title: TB - UK 3_2000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 1,0 | 1,0 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,3 | 0,3 |
| Iyz | 0,0 | 0,0 |
| J | 0,1 | 0,1 |
| ez0 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,2 | 0,2 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,8 | 0,8 |
| Asy | 0,8 | 0,8 |
| Ap | 1,0 | 1,0 |
| Zpy | 0,1 | 0,1 |
| Zpz | 0,5 | 0,5 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,3 | 0,3 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,6 | 0,6 |
| yt | 1,0 | 1,0 |
| yb | -1,0 | -1,0 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 2,0 | 2,0 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "IndividualOffsets" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2010T2012;2016;2100;2101T2103;2106;2290;2291T2295;2390T2396;2400T2406;2410T2416;2420T2426;2530T2536;2540T2546;2750T2756;32592;34686;34777;34969;38845;38936

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 47 |
| | | Date : | Created : |

Attribute: 29 Title: TB - UK 3_2500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 1,3 | 1,3 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,7 | 0,7 |
| Iyz | 0,0 | 0,0 |
| J | 0,1 | 0,1 |
| ez0 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,6 | 0,6 |
| Iwr | 0,0 | 0,0 |
| Asz | 1,0 | 1,0 |
| Asy | 1,0 | 1,0 |
| Ap | 1,3 | 1,3 |
| Zpy | 0,2 | 0,2 |
| Zpz | 0,8 | 0,8 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,4 | 0,4 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,7 | 0,7 |
| yt | 1,3 | 1,3 |
| yb | -1,3 | -1,3 |
| zt | 0,3 | 0,3 |
| zb | -0,3 | -0,3 |
| Type | 1 | 1 |
| B | 2,5 | 2,5 |
| D | 0,5 | 0,5 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "IndividualOffsets" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2080T2083;2090T2093;2190T2194;2550T2556;2650;2740;2741T2746;30163T30567I101;32663;32673;34757;34767;34868;38916;38926;39027;43599

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 48 |
| | | Date : | Created : |

Attribute: 32 Title: EB - L_1000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,3 | 0,2 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,0 | 0,0 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,3 | 0,1 |
| Asy | 0,3 | 0,1 |
| Ap | 0,3 | 0,2 |
| Zpy | 0,0 | 0,0 |
| Zpz | 0,1 | 0,0 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,0 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,3 | 0,3 |
| yt | 0,5 | 0,5 |
| yb | -0,5 | -0,5 |
| zt | 0,2 | 0,1 |
| zb | -0,2 | -0,1 |
| Type | 1 | 1 |
| B | 1,0 | 1,0 |
| D | 0,3 | 0,2 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1008;1838

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 49 |
| | | Date : | Created : |

Attribute: 33 Title: EB - L_1500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|---------------|------------------|------------------|
| A | 0,5 | 0,3 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,1 | 0,0 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,4 | 0,2 |
| Asy | 0,4 | 0,2 |
| Ap | 0,5 | 0,3 |
| Zpy | 0,0 | 0,0 |
| Zpz | 0,2 | 0,1 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,0 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,4 | 0,4 |
| yt | 0,8 | 0,8 |
| yb | -0,8 | -0,8 |
| zt | 0,2 | 0,1 |
| zb | -0,2 | -0,1 |
| Type | 1 | 1 |
| B | 1,5 | 1,5 |
| D | 0,3 | 0,2 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1208;1378;1438;1518;1568;1668;2488

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 50 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 34 Title: EB - L_2000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,7 | 0,4 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,2 | 0,1 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,6 | 0,3 |
| Asy | 0,6 | 0,3 |
| Ap | 0,7 | 0,4 |
| Zpy | 0,1 | 0,0 |
| Zpz | 0,3 | 0,2 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,2 | 0,0 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,6 | 0,6 |
| yt | 1,0 | 1,0 |
| yb | -1,0 | -1,0 |
| zt | 0,2 | 0,1 |
| zb | -0,2 | -0,1 |
| Type | 1 | 1 |
| B | 2,0 | 2,0 |
| D | 0,3 | 0,2 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1018;1108;1118;1218;1298;1308;1368;1388;1448;1508;1528T1548I10;1578;1778;1828;2398;2478

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 51 |
| | | Date : | Created : |

Attribute: 35 Title: EB - L_2500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|---------------|------------------|------------------|
| A | 0,9 | 0,4 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,4 | 0,2 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,4 | 0,2 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,7 | 0,4 |
| Asy | 0,7 | 0,4 |
| Ap | 0,9 | 0,4 |
| Zpy | 0,1 | 0,0 |
| Zpz | 0,5 | 0,3 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,7 | 0,7 |
| yt | 1,3 | 1,3 |
| yb | -1,3 | -1,3 |
| zt | 0,2 | 0,1 |
| zb | -0,2 | -0,1 |
| Type | 1 | 1 |
| B | 2,5 | 2,5 |
| D | 0,3 | 0,2 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1028T1098I10;1128T1168I10;1198;1558;1588T1618I10;1658;1788;1798T1818I10;2408T2438I10;2468

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 52 |
| | | Date : | Created : |

Attribute: 36 Title: EB - L_3000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 1,0 | 0,5 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,8 | 0,4 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 |
| ey0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 1,1 | 0,5 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,9 | 0,4 |
| Asy | 0,9 | 0,4 |
| Ap | 1,0 | 0,5 |
| Zpy | 0,1 | 0,0 |
| Zpz | 0,8 | 0,4 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,9 | 0,9 |
| yt | 1,5 | 1,5 |
| yb | -1,5 | -1,5 |
| zt | 0,2 | 0,1 |
| zb | -0,2 | -0,1 |
| Type | 1 | 1 |
| B | 3,0 | 3,0 |
| D | 0,3 | 0,2 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1178;1188;1228T1288I10;1318T1358I10;1458T1498I10;1628T1648I10;2448;2458

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 53 |
| | | Date : | Created : |

Attribute: 37 Title: EB - R_1000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,2 | 0,3 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,0 | 0,0 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,4 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,1 | 0,3 |
| Asy | 0,1 | 0,3 |
| Ap | 0,2 | 0,3 |
| Zpy | 0,0 | 0,0 |
| Zpz | 0,0 | 0,1 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,0 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,3 | 0,3 |
| yt | 0,5 | 0,5 |
| yb | -0,5 | -0,5 |
| zt | 0,1 | 0,2 |
| zb | -0,1 | -0,2 |
| Type | 1 | 1 |
| B | 1,0 | 1,0 |
| D | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 0 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1000;1830

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 54 |
| | | Date : | Created : |

Attribute: 38 Title: EB - R_2000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|---------------|------------------|------------------|
| A | 0,4 | 0,7 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,1 | 0,2 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,4 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,3 | 0,6 |
| Asy | 0,3 | 0,6 |
| Ap | 0,4 | 0,7 |
| Zpy | 0,0 | 0,1 |
| Zpz | 0,2 | 0,3 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,0 | 0,2 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,6 | 0,6 |
| yt | 1,0 | 1,0 |
| yb | -1,0 | -1,0 |
| zt | 0,1 | 0,2 |
| zb | -0,1 | -0,2 |
| Type | 1 | 1 |
| B | 2,0 | 2,0 |
| D | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 0 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1010;1100;1110;1210;1290;1300;1360;1380;1390T1420I10;1440;1500;1520T1540I10;1570;1750;1770;1820;36649

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 55 |
| | | Date : | Created : |

Attribute: 39 Title: EB - R_1500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,3 | 0,5 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,0 | 0,1 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,4 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,2 | 0,4 |
| Asy | 0,2 | 0,4 |
| Ap | 0,3 | 0,5 |
| Zpy | 0,0 | 0,0 |
| Zpz | 0,1 | 0,2 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,0 | 0,1 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,4 | 0,4 |
| yt | 0,8 | 0,8 |
| yb | -0,8 | -0,8 |
| zt | 0,1 | 0,2 |
| zb | -0,1 | -0,2 |
| Type | 1 | 1 |
| B | 1,5 | 1,5 |
| D | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 0 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1200;1370;1430;1510;1560T1760I100

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 56 |
| | | Date : | Created : |

Attribute: 40 Title: EB - R_2500 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,4 | 0,9 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,2 | 0,4 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,4 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,2 | 0,4 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,4 | 0,7 |
| Asy | 0,4 | 0,7 |
| Ap | 0,4 | 0,9 |
| Zpy | 0,0 | 0,1 |
| Zpz | 0,3 | 0,5 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,7 | 0,7 |
| yt | 1,3 | 1,3 |
| yb | -1,3 | -1,3 |
| zt | 0,1 | 0,2 |
| zb | -0,1 | -0,2 |
| Type | 1 | 1 |
| B | 2,5 | 2,5 |
| D | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 0 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1020T1090I10;1120T1160I10;1190;1550;1580T1610I10;1650;1740;1780T1810I10;36659T36689I10

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 57 |
| | | Date : | Created : |

Attribute: 41 Title: EB - R_3000 (Varying - 2 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,7 |

| Symbol | Section 1 | Section 2 |
|--------|-----------|-----------|
| A | 0,5 | 1,0 |
| Iyy | 0,0 | 0,0 |
| Izz | 0,4 | 0,8 |
| Iyz | 0,0 | 0,0 |
| J | 0,0 | 0,0 |
| ez0 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 |
| ez | -0,4 | -0,3 |
| ey | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 |
| Irr | 0,5 | 1,1 |
| Iwr | 0,0 | 0,0 |
| Asz | 0,4 | 0,9 |
| Asy | 0,4 | 0,9 |
| Ap | 0,5 | 1,0 |
| Zpy | 0,0 | 0,1 |
| Zpz | 0,4 | 0,8 |
| yp | 0,0 | 0,0 |
| zp | 0,0 | 0,0 |
| Zpt | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 |
| yo | 0,0 | 0,0 |
| zo | 0,0 | 0,0 |
| betay | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 |
| ky | 0,1 | 0,1 |
| kz | 0,9 | 0,9 |
| yt | 1,5 | 1,5 |
| yb | -1,5 | -1,5 |
| zt | 0,1 | 0,2 |
| zb | -0,1 | -0,2 |
| Type | 1 | 1 |
| B | 3,0 | 3,0 |
| D | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 0 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1170;1180;1220T1280I10;1310T1350I10;1450T1490I10;1620T1640I10;36699;36709

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 58 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

6.2 Transversal beams varying - 3 sections

| Symbol | Property |
|--------------------|---|
| elementType | Element type |
| isSpecifyInterp | Interpolation order specified |
| isEqualSpacing | Equal spacing assumed |
| isSymmetry | Symmetry |
| distanceType | Distance type |
| vAlign | Vertical alignment eccentricity |
| hAlign | Horizontal alignment eccentricity |
| alignToRow | Section to which others are aligned |
| vAlignType | Vertical alignment type |
| hAlignType | Horizontal alignment type |
| interpMethod | Interpolation method |
| reinforcement | Reinforcement |
| A | Cross sectional area |
| Iyy | Second moment of area about y axis |
| Izz | Second moment of area about z axis |
| Iyz | Product moment of area |
| J | Torsional constant |
| ez0 | Eccentricity in local z direction, relative to specified origin |
| ey0 | Eccentricity in local y direction, relative to specified origin |
| ez | Eccentricity in local z direction, relative to beam centroid |
| ey | Eccentricity in local y direction, relative to beam centroid |
| Iyr | Wagner constant 1st moment of square radius about y (Iyr) |
| Izr | Wagner constant 1st moment of square radius about z (Izr) |
| Irr | Wagner constant 4th moment of area about origin (Irr) |
| Iwr | Wagner constant 2nd moment of warping about origin (Iwr) |
| Asz | Effective shear area in local z direction |
| Asy | Effective shear area in local y direction |
| Ap | Plastic area |
| Zpy | Plastic modulus for bending about y |
| Zpz | Plastic modulus for bending about z |
| yp | Plastic neutral axis, distance from centroid along y axis |
| zp | Plastic neutral axis, distance from centroid along z axis |
| Zpt | Plastic torsional section modulus |
| Cw | Warping torsional constant about shear centre |
| yo | Shear centre about y axis |
| zo | Shear centre about z axis |
| betay | Monosymmetry constant about y |
| betaz | Monosymmetry constant about z |
| ky | Radius of gyration about y axis |
| kz | Radius of gyration about z axis |
| yt | y axis extreme fibre, top |
| yb | y axis extreme fibre, bottom |
| zt | z axis extreme fibre, top |
| zb | z axis extreme fibre, bottom |
| name | Description |
| distanceAlongBeam | Distance along beam |
| interpolationOrder | Interpolation order |
| Type | Shape code identifier |
| B | Breadth of this section |
| D | Depth of this section |

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 59 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 2 Title: TB - OK 1_1500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,5 | 0,3 | 0,5 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,1 | 0,0 | 0,1 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,4 | 0,2 | 0,4 |
| Asy | 0,4 | 0,2 | 0,4 |
| Ap | 0,5 | 0,3 | 0,5 |
| Zpy | 0,0 | 0,0 | 0,0 |
| Zpz | 0,2 | 0,1 | 0,2 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,1 | 0,0 | 0,1 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,4 | 0,4 | 0,4 |
| yt | 0,8 | 0,8 | 0,8 |
| yb | -0,8 | -0,8 | -0,8 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 1,5 | 1,5 | 1,5 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1371T1377I2;1511T1517I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 60 |
| | | Date : | Created : |

Attribute: 3 Title: TB - OK 1_2000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|----------------------|-------------|---------------------------|--------------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|---------------|------------------|------------------|------------------|
| A | 0,7 | 0,4 | 0,7 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,2 | 0,1 | 0,2 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,6 | 0,3 | 0,6 |
| Asy | 0,6 | 0,3 | 0,6 |
| Ap | 0,7 | 0,4 | 0,7 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,3 | 0,2 | 0,3 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,0 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,6 | 0,6 | 0,6 |
| yt | 1,0 | 1,0 | 1,0 |
| yb | -1,0 | -1,0 | -1,0 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,0 | 2,0 | 2,0 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1111T1117;1211T1217;1301T1307;1361T1367;1381T1387I2;1441T1447;1501T1507;1521T1527I2;1571T1577;1771T1777;1821T1827;1943;2216;2307;36740;36831;38865;38956

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 61 |
| | | Date : | Created : |

Attribute: 4 Title: TB - OK 1_2500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,9 | 0,4 | 0,9 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,4 | 0,2 | 0,4 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,4 | 0,2 | 0,4 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,7 | 0,4 | 0,7 |
| Asy | 0,7 | 0,4 | 0,7 |
| Ap | 0,9 | 0,4 | 0,9 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,5 | 0,3 | 0,5 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,7 | 0,7 | 0,7 |
| yt | 1,3 | 1,3 | 1,3 |
| yb | -1,3 | -1,3 | -1,3 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,5 | 2,5 | 2,5 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1021T1027;1031T1037;1041T1047;1051T1057;1061T1067;1071T1077I2;1121T1127;1131T1137;1141T1147;1151T1157;1161T1167;1581T1587;1591T1597;1601T1607;1611T1617;1781T1787;1791T1797;1801T1807;1811T1817;1862T1882I10;2145T2165I10;2226T2256I10;2317T2347I10;36750T36770I10;38723;38784;38794T38814I10;38875T38905I10;38966;40828

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 62 |
| | | Date : | Created : |

Attribute: 5 Title: TB - OK 1_3000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 1,0 | 0,5 | 1,0 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,8 | 0,4 | 0,8 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | -0,3 | -0,4 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,4 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 1,1 | 0,5 | 1,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,9 | 0,4 | 0,9 |
| Asy | 0,9 | 0,4 | 0,9 |
| Ap | 1,0 | 0,5 | 1,0 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,8 | 0,4 | 0,8 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,9 | 0,9 | 0,9 |
| yt | 1,5 | 1,5 | 1,5 |
| yb | -1,5 | -1,5 | -1,5 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 3,0 | 3,0 | 3,0 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1171T117712;1221T1227;1231T1237;1241T1247;1251T1257;1261T126712;1311T1317;1321T1327;1331T1337;1341T1347;1351T1357;1451T1457;1461T1467;1471T1477;1481T1487;1491T1497;1621T1627;1631T163712;2084;2175;2185;2266;2357;2367;38733;38824;38834;40838;40848

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 63 |
| | | Date : | Created : |

Attribute: 7 Title: TB - OK 2_1500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,5 | 0,8 | 0,5 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,1 | 0,1 | 0,1 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | -0,3 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,0 | 0,1 | 0,0 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,4 | 0,6 | 0,4 |
| Asy | 0,4 | 0,6 | 0,4 |
| Ap | 0,5 | 0,8 | 0,5 |
| Zpy | 0,0 | 0,1 | 0,0 |
| Zpz | 0,2 | 0,3 | 0,2 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,1 | 0,2 | 0,1 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,4 | 0,4 | 0,4 |
| yt | 0,8 | 0,8 | 0,8 |
| yb | -0,8 | -0,8 | -0,8 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 1,5 | 1,5 | 1,5 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1372T1376I2;1512T1516I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 64 |
| | | Date : | Created : |

Attribute: 8 Title: TB - OK 2_2000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,7 | 1,0 | 0,7 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,2 | 0,3 | 0,2 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | -0,3 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,1 | 0,2 | 0,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,6 | 0,8 | 0,6 |
| Asy | 0,6 | 0,8 | 0,6 |
| Ap | 0,7 | 1,0 | 0,7 |
| Zpy | 0,1 | 0,1 | 0,1 |
| Zpz | 0,3 | 0,5 | 0,3 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,3 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,6 | 0,6 | 0,6 |
| yt | 1,0 | 1,0 | 1,0 |
| yb | -1,0 | -1,0 | -1,0 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,0 | 2,0 | 2,0 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1382T1386I2;1522T1526I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 65 |
| | | Date : | Created : |

Attribute: 9 Title: TB - OK 2_3000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 1,0 | 1,5 | 1,0 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,8 | 1,1 | 0,8 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | -0,3 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 1,1 | 1,6 | 1,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,9 | 1,3 | 0,9 |
| Asy | 0,9 | 1,3 | 0,9 |
| Ap | 1,0 | 1,5 | 1,0 |
| Zpy | 0,1 | 0,2 | 0,1 |
| Zpz | 0,8 | 1,1 | 0,8 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,5 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,9 | 0,9 | 0,9 |
| yt | 1,5 | 1,5 | 1,5 |
| yb | -1,5 | -1,5 | -1,5 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 3,0 | 3,0 | 3,0 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1172T1176I2;1262T1266I2;1632T1636I2;2094;2276;38743

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 66 |
| | | Date : | Created : |

Attribute: 16 Title: TB - UK 1_1500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,5 | 0,3 | 0,5 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,1 | 0,0 | 0,1 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | 0,3 | 0,4 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,4 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,0 | 0,0 | 0,0 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,4 | 0,2 | 0,4 |
| Asy | 0,4 | 0,2 | 0,4 |
| Ap | 0,5 | 0,3 | 0,5 |
| Zpy | 0,0 | 0,0 | 0,0 |
| Zpz | 0,2 | 0,1 | 0,2 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,1 | 0,0 | 0,1 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,4 | 0,4 | 0,4 |
| yt | 0,8 | 0,8 | 0,8 |
| yb | -0,8 | -0,8 | -0,8 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 1,5 | 1,5 | 1,5 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2370T2376I2;2510T2516I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 67 |
| | | Date : | Created : |

Attribute: 17 Title: TB - UK 1_2000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,7 | 0,4 | 0,7 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,2 | 0,1 | 0,2 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | 0,3 | 0,4 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,4 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,1 | 0,1 | 0,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,6 | 0,3 | 0,6 |
| Asy | 0,6 | 0,3 | 0,6 |
| Ap | 0,7 | 0,4 | 0,7 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,3 | 0,2 | 0,3 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,0 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,6 | 0,6 | 0,6 |
| yt | 1,0 | 1,0 | 1,0 |
| yb | -1,0 | -1,0 | -1,0 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,0 | 2,0 | 2,0 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2110T2113;2116;2210;2211T2214;2300T2305;2360T2366;2380T2386I2;2440T2446;2500T2506;2520T2526I2;2570;2670;2671T2676;2770T2776;
2820T2826;2873T3176I101;34787;34888;34889;34979;38946;43519;46384

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 68 |
| | | Date : | Created : |

Attribute: 18 Title: TB - UK 1_2500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,9 | 0,4 | 0,9 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,4 | 0,2 | 0,4 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | 0,3 | 0,4 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,4 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,4 | 0,2 | 0,4 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,7 | 0,4 | 0,7 |
| Asy | 0,7 | 0,4 | 0,7 |
| Ap | 0,9 | 0,4 | 0,9 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,5 | 0,3 | 0,5 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,7 | 0,7 | 0,7 |
| yt | 1,3 | 1,3 | 1,3 |
| yb | -1,3 | -1,3 | -1,3 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,5 | 2,5 | 2,5 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2020T2022;2026;2030;2031;2032;2040T2043;2045;2050;2051T2053;2055;2060;2061T2063;2065;2070;2072;2120;2121T2123;2126;2130;2131T2134;2140T2144;2150T2154;2160T2164;2580T2610I10;2680T2686;2690T2696;2700T2706;2710T2716;2780T2786;2790T2796;2800T2806;2810T2816;2883T2913I10;2984T3014I10;3085T3115I10;3186T3206I10;30527;32602;32612;32613;32623T32653I10;34696;34706;34707T34747I10;34797;34798;34808T34838I10;38855;38967;38977T38997I10;43529T43559I10;46394T46424I10

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 69 |
| | | Date : | Created : |

Attribute: 19 Title: TB - UK 1_3000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 1,0 | 0,5 | 1,0 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,8 | 0,4 | 0,8 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | 0,3 | 0,4 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,4 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 1,1 | 0,5 | 1,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,9 | 0,4 | 0,9 |
| Asy | 0,9 | 0,4 | 0,9 |
| Ap | 1,0 | 0,5 | 1,0 |
| Zpy | 0,1 | 0,0 | 0,1 |
| Zpz | 0,8 | 0,4 | 0,8 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,1 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,9 | 0,9 | 0,9 |
| yt | 1,5 | 1,5 | 1,5 |
| yb | -1,5 | -1,5 | -1,5 |
| zt | 0,2 | 0,1 | 0,2 |
| zb | -0,2 | -0,1 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 3,0 | 3,0 | 3,0 |
| D | 0,3 | 0,2 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2170T2174I2;2220T2225;2230T2235;2240T2245;2250T2255;2260T2264I2;2310T2316;2320T2326;2330T2336;2340T2346;2350T2356;2450T2456;2460T2466;2470T2476;2480T2486;2490T2496;2620;2630;2720T2726;2730T2736I2;2923;3024;30345;30436;30537;30547;34899T34939I10;39007;43569;46434;46444

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 70 |
| | | Date : | Created : |

Attribute: 21 Title: TB - OK 2_2500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,9 | 1,3 | 0,9 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,4 | 0,7 | 0,4 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | -0,3 | -0,3 | -0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | -0,3 | -0,3 | -0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,4 | 0,6 | 0,4 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,7 | 1,0 | 0,7 |
| Asy | 0,7 | 1,0 | 0,7 |
| Ap | 0,9 | 1,3 | 0,9 |
| Zpy | 0,1 | 0,2 | 0,1 |
| Zpz | 0,5 | 0,8 | 0,5 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,4 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,7 | 0,7 | 0,7 |
| yt | 1,3 | 1,3 | 1,3 |
| yb | -1,3 | -1,3 | -1,3 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,5 | 2,5 | 2,5 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "TopToTop" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

1072T1076I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 71 |
| | | Date : | Created : |

Attribute: 22 Title: TB - UK 2_1500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,5 | 0,8 | 0,5 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,1 | 0,1 | 0,1 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,0 | 0,0 |
| ez0 | 0,3 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,0 | 0,1 | 0,0 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,4 | 0,6 | 0,4 |
| Asy | 0,4 | 0,6 | 0,4 |
| Ap | 0,5 | 0,8 | 0,5 |
| Zpy | 0,0 | 0,1 | 0,0 |
| Zpz | 0,2 | 0,3 | 0,2 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,1 | 0,2 | 0,1 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,4 | 0,4 | 0,4 |
| yt | 0,8 | 0,8 | 0,8 |
| yb | -0,8 | -0,8 | -0,8 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 1,5 | 1,5 | 1,5 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2371T2375I2;2511T2515I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 72 |
| | | Date : | Created : |

Attribute: 23 Title: TB - UK 2_2000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,7 | 1,0 | 0,7 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,2 | 0,3 | 0,2 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | 0,3 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,1 | 0,2 | 0,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,6 | 0,8 | 0,6 |
| Asy | 0,6 | 0,8 | 0,6 |
| Ap | 0,7 | 1,0 | 0,7 |
| Zpy | 0,1 | 0,1 | 0,1 |
| Zpz | 0,3 | 0,5 | 0,3 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,3 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,6 | 0,6 | 0,6 |
| yt | 1,0 | 1,0 | 1,0 |
| yb | -1,0 | -1,0 | -1,0 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,0 | 2,0 | 2,0 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2381T2385I2;2521T2525I2

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 73 |
| | | Date : | Created : |

Attribute: 24 Title: TB - UK 2_2500 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 0,9 | 1,3 | 0,9 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,4 | 0,7 | 0,4 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | 0,3 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 0,4 | 0,6 | 0,4 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,7 | 1,0 | 0,7 |
| Asy | 0,7 | 1,0 | 0,7 |
| Ap | 0,9 | 1,3 | 0,9 |
| Zpy | 0,1 | 0,2 | 0,1 |
| Zpz | 0,5 | 0,8 | 0,5 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,4 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,7 | 0,7 | 0,7 |
| yt | 1,3 | 1,3 | 1,3 |
| yb | -1,3 | -1,3 | -1,3 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 2,5 | 2,5 | 2,5 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2071;2073;38906

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 74 |
| | | Date : | Created : |

Attribute: 25 Title: TB - UK 2_3000 (Varying - 3 sections)

Sub Type = Multiple Varying Geometric

Assigned in: Analysis 9

| Cross Section | name | interpolationOrder | distanceAlongBeam |
|---------------|------|--------------------|-------------------|
| Section 1 | "" | "Constant" | 0,0 |
| Section 2 | "" | "Linear" | 0,5 |
| Section 3 | "" | "Linear" | 1,0 |

| Symbol | Section 1 | Section 2 | Section 3 |
|--------|-----------|-----------|-----------|
| A | 1,0 | 1,5 | 1,0 |
| Iyy | 0,0 | 0,0 | 0,0 |
| Izz | 0,8 | 1,1 | 0,8 |
| Iyz | 0,0 | 0,0 | 0,0 |
| J | 0,0 | 0,1 | 0,0 |
| ez0 | 0,3 | 0,3 | 0,3 |
| ey0 | 0,0 | 0,0 | 0,0 |
| ez | 0,3 | 0,3 | 0,3 |
| ey | 0,0 | 0,0 | 0,0 |
| Iyr | 0,0 | 0,0 | 0,0 |
| Izr | 0,0 | 0,0 | 0,0 |
| Irr | 1,1 | 1,6 | 1,1 |
| Iwr | 0,0 | 0,0 | 0,0 |
| Asz | 0,9 | 1,3 | 0,9 |
| Asy | 0,9 | 1,3 | 0,9 |
| Ap | 1,0 | 1,5 | 1,0 |
| Zpy | 0,1 | 0,2 | 0,1 |
| Zpz | 0,8 | 1,1 | 0,8 |
| yp | 0,0 | 0,0 | 0,0 |
| zp | 0,0 | 0,0 | 0,0 |
| Zpt | 0,2 | 0,5 | 0,2 |
| Cw | 0,0 | 0,0 | 0,0 |
| yo | 0,0 | 0,0 | 0,0 |
| zo | 0,0 | 0,0 | 0,0 |
| betay | 0,0 | 0,0 | 0,0 |
| betaz | 0,0 | 0,0 | 0,0 |
| ky | 0,1 | 0,1 | 0,1 |
| kz | 0,9 | 0,9 | 0,9 |
| yt | 1,5 | 1,5 | 1,5 |
| yb | -1,5 | -1,5 | -1,5 |
| zt | 0,2 | 0,3 | 0,2 |
| zb | -0,2 | -0,3 | -0,2 |
| Type | 1 | 1 | 1 |
| B | 3,0 | 3,0 | 3,0 |
| D | 0,3 | 0,5 | 0,3 |

| Symbol | Value |
|-----------------|--------------------------|
| elementType | "3D Thick Beam" |
| isSpecifyInterp | true |
| isEqualSpacing | false |
| isSymmetry | false |
| distanceType | "Parametric" |
| vAlign | 0,0 |
| hAlign | 0,0 |
| alignToRow | 1 |
| vAlignType | "BottomToBottom" |
| hAlignType | "CenterToCenter" |
| interpMethod | "Use Section Calculator" |
| reinforcement | None |

Assignment to Lines:

2171;2173;2261T2265I2;2731T2735I2;2933;30446;34848;43579

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 75 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

6.3 Longitudinal beams

Attribute: 42 Title: LB - Typ 1

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,7 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,0 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | 0,0 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,0 |
| Eccentricity in local z direction, relative to beam centroid | ez | 0,0 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,0 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,4 |
| Effective shear area in local y direction | Asy | 0,5 |
| Plastic area | Ap | 0,7 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,1 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,2 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,0 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | 0,0 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,2 |
| y axis extreme fibre, top | yt | 0,5 |
| y axis extreme fibre, bottom | yb | -0,5 |
| z axis extreme fibre, top | zt | 0,5 |
| z axis extreme fibre, bottom | zb | -0,5 |
| Shape code identifier | Type | -1 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

202T206;212T216;222T225;231T236;245T250;258T262;268T272;278T282;302T306;312T316;322T325;331T336;345T350;358T362;368T372;378T382;402T406;412T416;422T425;431T436;445T450;458T462;468T472;478T482;502T506;512T516;522T525;531T536;545T550;558T562;568T572;578T582;602T606;612T616;622T625;631T636;645T650;658T662;668T672;678T682;702T706;712T716;722T725;731T736;745T750;758T762;768T772;778T782

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 76 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 43 Title: LB - Typ 2

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,8 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,1 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | 0,0 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,1 |
| Eccentricity in local z direction, relative to beam centroid | ez | 0,0 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,1 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,6 |
| Effective shear area in local y direction | Asy | 0,7 |
| Plastic area | Ap | 0,8 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,2 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,3 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | -0,1 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | -0,4 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,6 |
| y axis extreme fibre, bottom | yb | -0,4 |
| z axis extreme fibre, top | zt | 0,5 |
| z axis extreme fibre, bottom | zb | -0,5 |
| Shape code identifier | Type | -1 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

207;217;226;237;238;251;252;263;273;407;417;426;437;438;451;452;463;473;607;617;626;637;638;651;652;663;673

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 77 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 44 Title: LB - Typ 3

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,8 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,1 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | 0,0 |
| Eccentricity in local y direction, relative to specified origin | ey0 | -0,1 |
| Eccentricity in local z direction, relative to beam centroid | ez | 0,0 |
| Eccentricity in local y direction, relative to beam centroid | ey | -0,1 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,6 |
| Effective shear area in local y direction | Asy | 0,7 |
| Plastic area | Ap | 0,8 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,2 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,3 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,1 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | 0,4 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,4 |
| y axis extreme fibre, bottom | yb | -0,6 |
| z axis extreme fibre, top | zt | 0,5 |
| z axis extreme fibre, bottom | zb | -0,5 |
| Shape code identifier | Type | -1 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

307;317;326;337;338;351;352;363;373;507;517;526;537;538;551;552;563;573;707;717;726;737;738;751;752;763;773

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 78 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 45 Title: LB - Typ 4 (1,0 x 1,0 (RSS D=1 B=1))

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 1,0 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,1 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,1 |
| Eccentricity in local z direction, relative to specified origin | ez0 | 0,0 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,0 |
| Eccentricity in local z direction, relative to beam centroid | ez | 0,0 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,0 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,8 |
| Effective shear area in local y direction | Asy | 0,8 |
| Plastic area | Ap | 1,0 |
| Plastic modulus for bending about y | Zpy | 0,3 |
| Plastic modulus for bending about z | Zpz | 0,3 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,4 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,0 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | 0,0 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,5 |
| y axis extreme fibre, bottom | yb | -0,5 |
| z axis extreme fibre, top | zt | 0,5 |
| z axis extreme fibre, bottom | zb | -0,5 |
| Shape code identifier | Type | 1 |
| Breadth of this section | B | 1,0 |
| Depth of this section | D | 1,0 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

200;201;208T211;218T221;227T230;239T244;253T257;264T267;274T277;283;284;300;301;308T311;318T321;327T330;339T344;353T357;364T367;374T377;383;384;400;401;408T411;418T421;427T430;439T444;453T457;464T467;474T477;483;484;500;501;508T511;518T521;527T530;539T544;553T557;564T567;574T577;583;584;600;601;608T611;618T621;627T630;639T644;653T657;664T667;674T677;683;684;700;701;708T711;718T721;727T730;739T744;753T757;764T767;774T777;783;784

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 79 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 46 Title: LB - Typ 5

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,8 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,1 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,1 |
| Eccentricity in local z direction, relative to specified origin | ez0 | -0,1 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,1 |
| Eccentricity in local z direction, relative to beam centroid | ez | -0,1 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,1 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,7 |
| Effective shear area in local y direction | Asy | 0,7 |
| Plastic area | Ap | 0,8 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,2 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,3 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,0 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | -0,1 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,7 |
| y axis extreme fibre, bottom | yb | -0,4 |
| z axis extreme fibre, top | zt | 0,4 |
| z axis extreme fibre, bottom | zb | -0,6 |
| Shape code identifier | Type | 0 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

100;101;108T111;118T121;127T130;139T144;153T157;164T167;174T177;183;184

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 80 |
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Attribute: 47 Title: LB - Typ 6

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,7 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,0 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | -0,1 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,0 |
| Eccentricity in local z direction, relative to beam centroid | ez | -0,1 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,0 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,4 |
| Effective shear area in local y direction | Asy | 0,5 |
| Plastic area | Ap | 0,7 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,1 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,1 |
| Plastic torsional section modulus | Zpt | 0,2 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,1 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | -0,2 |
| Monosymmetry constant about z | betaz | 0,4 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,6 |
| y axis extreme fibre, bottom | yb | -0,5 |
| z axis extreme fibre, top | zt | 0,4 |
| z axis extreme fibre, bottom | zb | -0,6 |
| Shape code identifier | Type | -1 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

102T107;112T117;122T126;131T138;145T152;158T163;168T173;178T182

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 81 |
| | | Date : | Created : |

Attribute: 48 Title: LB - Typ 7

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,8 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,1 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | -0,1 |
| Eccentricity in local y direction, relative to specified origin | ey0 | -0,1 |
| Eccentricity in local z direction, relative to beam centroid | ez | -0,1 |
| Eccentricity in local y direction, relative to beam centroid | ey | -0,1 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,7 |
| Effective shear area in local y direction | Asy | 0,7 |
| Plastic area | Ap | 0,8 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,2 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,3 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | 0,0 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | 0,1 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,4 |
| y axis extreme fibre, bottom | yb | -0,7 |
| z axis extreme fibre, top | zt | 0,4 |
| z axis extreme fibre, bottom | zb | -0,6 |
| Shape code identifier | Type | -1 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

800;801;808T811;818T821;827T830;839T844;853T857;864T867;874T877;883;884

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 82 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

Attribute: 49 Title: LB - Typ 8

Sub Type = Line Geometric

Assigned in: Analysis 9

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 0,7 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 0,0 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,0 |
| Eccentricity in local z direction, relative to specified origin | ez0 | -0,1 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,0 |
| Eccentricity in local z direction, relative to beam centroid | ez | -0,1 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,0 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 0,0 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 0,4 |
| Effective shear area in local y direction | Asy | 0,5 |
| Plastic area | Ap | 0,7 |
| Plastic modulus for bending about y | Zpy | 0,2 |
| Plastic modulus for bending about z | Zpz | 0,1 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,1 |
| Plastic torsional section modulus | Zpt | 0,2 |
| Warping torsional constant about shear centre | Cw | 0,0 |
| Shear centre about y axis | yo | -0,1 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | -0,2 |
| Monosymmetry constant about z | betaz | -0,4 |
| Radius of gyration about y axis | ky | 0,3 |
| Radius of gyration about z axis | kz | 0,3 |
| y axis extreme fibre, top | yt | 0,5 |
| y axis extreme fibre, bottom | yb | -0,6 |
| z axis extreme fibre, top | zt | 0,4 |
| z axis extreme fibre, bottom | zb | -0,6 |
| Shape code identifier | Type | 0 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

802T807;812T817;822T826;831T838;845T852;858T863;868T873;878T882

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 83 |
| | | Date : | Created : |

6.4 Column beam

Attribute: 50 Title: Pelare (Column (RSS D=0,6 B=3,9))

Sub Type = Line Geometric

Assigned in: Analysis 9

Property

| Property | Symbol | Value |
|---|---------------|-----------------|
| Cross sectional area | A | 2,3 |
| Second moment of area about y axis | Iyy | 0,1 |
| Second moment of area about z axis | Izz | 3,0 |
| Product moment of area | Iyz | 0,0 |
| Torsional constant | J | 0,3 |
| Eccentricity in local z direction, relative to specified origin | ez0 | 0,0 |
| Eccentricity in local y direction, relative to specified origin | ey0 | 0,0 |
| Eccentricity in local z direction, relative to beam centroid | ez | 0,0 |
| Eccentricity in local y direction, relative to beam centroid | ey | 0,0 |
| Wagner constant 1st moment of square radius about y (Iyr) | Iyr | 0,0 |
| Wagner constant 1st moment of square radius about z (Izr) | Izr | 0,0 |
| Wagner constant 4th moment of area about origin (Irr) | Irr | 6,9 |
| Wagner constant 2nd moment of warping about origin (Iwr) | Iwr | 0,0 |
| Effective shear area in local z direction | Asz | 2,0 |
| Effective shear area in local y direction | Asy | 2,0 |
| Plastic area | Ap | 2,3 |
| Plastic modulus for bending about y | Zpy | 0,4 |
| Plastic modulus for bending about z | Zpz | 2,3 |
| Plastic neutral axis, distance from centroid along y axis | yp | 0,0 |
| Plastic neutral axis, distance from centroid along z axis | zp | 0,0 |
| Plastic torsional section modulus | Zpt | 0,9 |
| Warping torsional constant about shear centre | Cw | 0,1 |
| Shear centre about y axis | yo | 0,0 |
| Shear centre about z axis | zo | 0,0 |
| Monosymmetry constant about y | betay | 0,0 |
| Monosymmetry constant about z | betaz | 0,0 |
| Radius of gyration about y axis | ky | 0,2 |
| Radius of gyration about z axis | kz | 1,1 |
| y axis extreme fibre, top | yt | 1,9 |
| y axis extreme fibre, bottom | yb | -1,9 |
| z axis extreme fibre, top | zt | 0,3 |
| z axis extreme fibre, bottom | zb | -0,3 |
| Shape code identifier | Type | 1 |
| Breadth of this section | B | 3,9 |
| Depth of this section | D | 0,6 |
| Element type | elementType | "3D Thick Beam" |
| Reinforcement | reinforcement | None |

Assignment to Lines:

4000T4003

| | | | |
|--|---------------------------------------|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 84 |
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7. Material

7.1 Beams

Attribute: 4 Title: Uncracked concrete

Sub Type = Isotropic Material

Assigned in: Analysis 9

Property

| Property | Symbol | Value |
|----------------------------------|--------|-----------|
| Young's modulus | E | 3400000,0 |
| Poisson's ratio | nu | 0,2 |
| Density | rho | 2,4 |
| Coefficient of thermal expansion | alpha | 0,0 |

Loadcase ID: 1 Title: Loadcase 1

Assignment to Lines:

100T184;200T284;300T384;400T484;500T584;600T684;700T784;800T884

Attribute: 5 Title: Cracked concrete

Sub Type = Isotropic Material

Assigned in: Analysis 9

Property

| Property | Symbol | Value |
|----------------------------------|--------|------------|
| Young's modulus | E | 20400000,0 |
| Poisson's ratio | nu | 0,2 |
| Density | rho | 0,0 |
| Coefficient of thermal expansion | alpha | 0,0 |

Loadcase ID: 1 Title: Loadcase 1

Assignment to Lines:

1000T1008;1010T1018;1020T1028;1030T1038;1040T1048;1050T1058;1060T1068;1070T1078;1080T1088;1090T1098;1100T1108;1110T1118;1120T1128;1130T1138;1140T1148;1150T1158;1160T1168;1170T1178;1180T1188;1190T1198;1200T1208;1210T1218;1220T1228;1230T1238;1240T1248;1250T1258;1260T1268;1270T1278;1280T1288;1290T1298;1300T1308;1310T1318;1320T1328;1330T1338;1340T1348;1350T1358;1360T1368;1370T1378;1380T1388;1390T1398;1400T1408;1410T1418;1420T1428;1430T1438;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2000;2001;2002;2004;2006;2010T2012;2016;2020;2021T2023;2026;2030;2031T2033;2040T2043;2045;2050;2051T2053;2055;2060;2061T2063;2065;2070;2071T2073;2080T2084;2090T2094;2100T2104;2106;2110;2111T2114;2116;2120;2121T2124;2126;2130;2131T2134;2140T2145;2150T2155;2160T2165;2170T2175;2180T2185;2190T2195;2200T2206;2210T2216;2220T2226;2230T2236;2240T2246;2250T2256;2260T2266;2270T2276;2280T2286;2290T2296;2300T2307;2310T2317;2320T2327;2330T2337;2340T2347;2350T2357;2360T2367;2370T2377;2380T2387;2390T2398;2400T2406;2408;2410;2411T2416;2418;2420;2421T2426;2428;2430;2431T2436;2438;2440;2441T2446;2448;2450;2451T2456;2458;2460;2461T2466;2468;2470;2471T2476;2478;2480;2481T2486;2488;2490;2491T2496;2500T2506;2510T2516;2520T2526;2530T2536;2540T2546;2550T2556;2560T2660I10;2661;2670;2671T2676;2680T2686;2690T2696;2700T2706;2710T2716;2720T2726;2730T2736;2740T2746;2750T2756;2760T2766;2770T2776;2780T2786;2790T2796;2800T2806;2810T2816;2820T2826;2830T2836;2842;2863;2873T2933I10;2964T3024I10;3065T3115I10;3166T3206I10;4000T4003;30072;30163;30173;30254;30264;30274;30345T30375I10;30436T30476I10;30527T30577I10;32582T32612I10;32613T32673I10;34676T34706I10;34707T34797I10;34798T34888I10;34889T34979I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38845T38905I10;38906T38966I10;38967T39027I10;40828T40848I10;43519T43599I10;43610;46384;46394T46444I10

| | | | |
|--|---|----------|-------------|
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7.2 Joints elements

Attribute: 3 Title: Joint material

Sub Type = Joint Material, Spring Stiffness Only

Assigned in: Analysis 9

| | u | v | w | THx | THy | THz |
|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| K | 1000000000,0 | 1000000000,0 | 1000000000,0 | 1,0 | 1,0 | 1,0 |
| nDOF | 6 | 6 | 6 | 6 | 6 | 6 |
| Number of degrees of freedom | | | | | | |
| Joint type | JointType | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" |
| shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" |
| Assignment type | Assignment | "Point" | "Point" | "Point" | "Point" | "Point" |

Loadcase ID: 1 Title: Loadcase 1

Assignment to Points:

201;219;228;241;255;284;309;319;328;341;355T375I10;401;409;419;428;441;455;465;475;484;501;509;519;528;541;555T575I10;584;609;619;628;641;655;665;675;701;719;728;741;755;784

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 86 |
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8. Bearings

Attribute: 6 Title: TE-X

Sub Type = Structural Support

Property

Translation in X

Translation in Y

Translation in Z

Rotation about X

Rotation about Y

Rotation about Z

Torsional warping

Moment about hinge

Pore pressure

Symbol

U

V

W

THX

THY

THZ

Torsion

L1

pore

Value

"F"

"R"

"R"

"F"

"F"

"F"

"F"

"F"

"F"

Assigned in: Analysis 9

1201;1701;1801;1901

Assigned in: Analysis 4

Assignment to Points:

1101

Assigned in: Analysis 3

1101

Assigned in: Analysis 5;

Assignment to Points:

1101

Assigned in: Analysis 6

Assignment to Points:

1101

Assigned in: Analysis 7;

Assignment to Points:

1101

Assigned in: Analysis 8;

Assignment to Points:

1101

Attribute: 7 Title: TA

Sub Type = Structural Support

Property

Translation in X

Translation in Y

Translation in Z

Rotation about X

Rotation about Y

Rotation about Z

Torsional warping

Moment about hinge

Pore pressure

Symbol

U

V

W

THX

THY

THZ

Torsion

L1

pore

Value

"F"

"F"

"R"

"F"

"F"

"F"

"F"

"F"

"F"

Assigned in: Analysis 9

Assignment to Points:

1100;1102;1200;1202;1700;1702;1800;1802;1900;1902

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 87 |
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Attribute: 9 Title: TF (provisorisk)

Sub Type = Structural Support

| Property | Symbol | Value |
|--------------------|---------|-------|
| Translation in X | U | "R" |
| Translation in Y | V | "R" |
| Translation in Z | W | "R" |
| Rotation about X | THX | "F" |
| Rotation about Y | THY | "F" |
| Rotation about Z | THZ | "F" |
| Torsional warping | Torsion | "F" |
| Moment about hinge | L1 | "F" |
| Pore pressure | pore | "F" |

Assigned in: Analysis 1

Assignment to Points:

1101

Assigned in: Analysis 2

Assignment to Points:

1101

| | | | |
|--|---|----------|-------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 88 |
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9. Supports

Attribute: 8 Title: Foundation

Sub Type = Structural Support

Property

Translation in X

Translation in Y

Translation in Z

Rotation about X

Rotation about Y

Rotation about Z

Torsional warping

Moment about hinge

Pore pressure

Symbol

U

V

W

THX

THY

THZ

Torsion

L1

pore

Value

"R"

"R"

"R"

"R"

"F"

"F"

"F"

"F"

"F"

Assigned in: Analysis 9

Assignment to Points:

1300T1600I100

| | | | |
|--|---|----------|-------------|
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10. Joint element

Attribute: 3 Title: Joint material

Sub Type = Joint Material, Spring Stiffness Only

| | u | v | w | THx | THy | THz |
|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| K | 1000000000,0 | 1000000000,0 | 1000000000,0 | 1,0 | 1,0 | 1,0 |
| nDOF | 6 | 6 | 6 | 6 | 6 | 6 |
| Number of degrees of freedom | | | | | | |
| Joint type | JointType | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" |
| shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" | "3D beams and/or shells" |
| Assignment type | Assignment | "Point" | "Point" | "Point" | "Point" | "Point" |

Assigned in: Analysis 9

Assignment to Points:

201;219;228;241;255;284;309;319;328;341;355T375I10;401;409;419;428;441;455;465;475;484;501;509;519;528;541;555T575I10;584;609;619;628;641;655;665;675;701;719;728;741;755;784

| | | | |
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11. Search Area

Attribute: 1 Title: Brobana

Sub Type = Search Area

Assignment to Lines:

100T184;200T284;300T384;400T484;500T584;600T684;700T784;800T884;1000T1008;1010T1018;1020T1028;1030T1038;1040T1048;1050T1058;1060T1068;1070T1078;1080T1088;1090T1098;1100T1108;1110T1118;1120T1128;1130T1138;1140T1148;1150T1158;1160T1168;1170T1178;1180T1188;1190T1198;1200T1208;1210T1218;1220T1228;1230T1238;1240T1248;1250T1258;1260T1268;1270T1278;1280T1288;1290T1298;1300T1308;1310T1318;1320T1328;1330T1338;1340T1348;1350T1358;1360T1368;1370T1378;1380T1388;1390T1398;1400T1408;1410T1418;1420T1428;1430T1438;1440T1448;1450T1458;1460T1468;1470T1478;1480T1488;1490T1498;1500T1508;1510T1518;1520T1528;1530T1538;1540T1548;1550T1558;1560T1568;1570T1578;1580T1588;1590T1598;1600T1608;1610T1618;1620T1628;1630T1638;1640T1648;1650T1658;1660T1668;1740T1770I10;1771T1778;1780T1788;1790T1798;1800T1808;1810T1818;1820T1828;1830T1838;1862T1882I10;1943;2023;2033;2084;2094T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;2398T2488I10;36649T36709I10;36740T36770I10;36831;38662;38672;38682;38723T38773I10;38784T38844I10;38865T38905I10;38956;38966;40828T40848I10

| | | | |
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12. Global distributed

I samband med intern kontroll framkom önskemål om förtydligande av uttryck nedan.

| Property | Symbol | Value |
|----------------|--------|----------|
| Attribute type | type | "Length" |

Tilldelning **Attribute type** används för laster av typen **Global Distributed Load** för att beskriva hurvida det är en ytlast eller linjelast. En linjelast betecknas "Per unit length" som i result rapport anges som "Length".

Attribute: 7587 Title: EGEN 2

Sub Type = Global Distributed Load

| Property | Symbol | Value |
|--------------------------|------------|----------|
| Attribute type | type | "Length" |
| X Direction | WX | 0,0 |
| Y Direction | WY | 0,0 |
| Z Direction | WZ | -4,0 |
| Moment about X axis | MX | -3,0 |
| Moment about Y axis | MY | 0,0 |
| Moment about Z axis | MZ | 0,0 |
| Moment about hinge nodes | Hinge | 0,0 |
| Keep global | keepGlobal | false |

Loadcase ID: 3 Title: EGEN 2 Factor = 1

Assigned in: Analysis 9

Assignment to Lines:

100T184

Loadcase ID: 47800 Title: EGEN 2-2 Factor = 1

Assigned in: Analysis 2

Assignment to Lines:

111T120

Loadcase ID: 47802 Title: EGEN 2-4 Factor = 1

Assigned in: Analysis 4

Assignment to Lines:

130T143

Loadcase ID: 47803 Title: EGEN 2-5 Factor = 1

Assigned in: Analysis 5

Assignment to Lines:

144T156

Loadcase ID: 47806 Title: EGEN 2-6 Factor = 1

Assigned in: Analysis 6

Assignment to Lines:

144T156

Loadcase ID: 47807 Title: EGEN 2-7 Factor = 1

Assigned in: Analysis 7

Assignment to Lines:

167T176

Loadcase ID: 47810 Title: EGEN 2-8 Factor = 1

Assigned in: Analysis 8

Assignment to Lines:

177T184

Loadcase ID: 47813 Title: EGEN 2-1 Factor = 1

Assigned in: Analysis 1

Assignment to Lines:

100T110

| | | | |
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Attribute: 7588 Title: EGEN 3

Sub Type = Global Distributed Load

| Property | Symbol | Value |
|--------------------------|---------------|--------------|
| Attribute type | type | "Length" |
| X Direction | WX | 0,0 |
| Y Direction | WY | 0,0 |
| Z Direction | WZ | -4,0 |
| Moment about X axis | MX | 3,0 |
| Moment about Y axis | MY | 0,0 |
| Moment about Z axis | MZ | 0,0 |
| Moment about hinge nodes | Hinge | 0,0 |
| Keep global | keepGlobal | false |

Loadcase ID: 4 Title: EGEN 3 Factor = 1

Assigned in: Analysis 9

Assignment to Lines:

800T884

Loadcase ID: 47804 Title: EGEN 3-5 Factor = 1

Assigned in: Analysis 5

Assignment to Lines:

844T856

Loadcase ID: 47814 Title: EGEN 3-1 Factor = 1

Assigned in: Analysis 1

Assignment to Lines:

800T810

Loadcase ID: 47815 Title: EGEN 3-2 Factor = 1

Assigned in: Analysis 2

Assignment to Lines:

811T820

Loadcase ID: 47820 Title: EGEN 3-4 Factor = 1

Assigned in: Analysis 5

Assignment to Lines:

830T843

Loadcase ID: 47825 Title: EGEN 3-6 Factor = 1

Assigned in: Analysis 6

Assignment to Lines:

844T856

Loadcase ID: 47827 Title: EGEN 3-7 Factor = 1

Assigned in: Analysis 9

Assignment to Lines:

867T876

Loadcase ID: 47829 Title: EGEN 3-8 Factor = 1

Assigned in: Analysis 8

Assignment to Lines:

877T884

| | | | |
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Attribute: 7589 Title: BELAGG

Sub Type = Global Distributed Load

| Property | Symbol | Value |
|--------------------------|------------|----------|
| Attribute type | type | "Length" |
| X Direction | WX | 0,0 |
| Y Direction | WY | 0,0 |
| Z Direction | WZ | -1,8 |
| Moment about X axis | MX | 0,0 |
| Moment about Y axis | MY | 0,0 |
| Moment about Z axis | MZ | 0,0 |
| Moment about hinge nodes | Hinge | 0,0 |
| Keep global | keepGlobal | false |

Loadcase ID: 5 Title: BELAGG Factor = 1

Assignment to Lines:

100T184;200T284;300T384;400T484;500T584;600T684;700T784;800T884

Attribute: 7590 Title: BROMS+

Sub Type = Global Distributed Load

| Property | Symbol | Value |
|--------------------------|------------|----------|
| Attribute type | type | "Length" |
| X Direction | WX | 2,7 |
| Y Direction | WY | 0,0 |
| Z Direction | WZ | 0,0 |
| Moment about X axis | MX | 0,0 |
| Moment about Y axis | MY | 1,6 |
| Moment about Z axis | MZ | 0,0 |
| Moment about hinge nodes | Hinge | 0,0 |
| Keep global | keepGlobal | false |

Loadcase ID: 1407 Title: BROMS+ Factor = 1

Assignment to Lines:

328T354;428T454;528T554;628T654

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|--|---|----------|-------------|
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13. Body load

Attribute: 7586 Title: EGEN 1

Sub Type = Gravity Load

Assigned in: Analysis 1

Loadcase ID: 47812 Title: EGEN 1-1 Factor = 1

Assignment to Lines:

100T110;200T210;300T310;400T410;500T510;600T610;700T710;800T810

Loadcase ID: 47790 Title: EGEN 1-2 Factor = 1

Assigned in: Analysis 2

Assignment to Lines:

111T120;211T220;311T320;411T420;511T520;611T620;711T720;811T820

Assigned in: Analysis 3

Assignment to Lines:

121T129;221T229;321T329;421T429;521T529;621T629;721T729;821T829

Loadcase ID: 47795 Title: EGEN 1-3 Factor = 1

Assignment to Lines:

121T129;221T229;321T329;421T429;521T529;621T629;721T729;821T829

Loadcase ID: 47794 Title: EGEN 1-4 Factor = 1

Assigned in: Analysis 4

Assignment to Lines:

130T143;230T243;330T343;430T443;530T543;630T643;730T743;830T843

Loadcase ID: 47796 Title: EGEN 1-5 Factor = 1

Assigned in: Analysis 5

Assignment to Lines:

144T156;244T256;344T356;444T456;544T556;644T656;744T756;844T856

Loadcase ID: 47797 Title: EGEN 1-6 Factor = 1

Assigned in: Analysis 6

Assignment to Lines:

144T156;244T256;344T356;444T456;544T556;644T656;744T756;844T856

Loadcase ID: 47798 Title: EGEN 1-7 Factor = 1

Assigned in: Analysis 7

Assignment to Lines:

167T176;267T276;367T376;467T476;567T576;667T676;767T776;867T876

Loadcase ID: 47799 Title: EGEN 1-8 Factor = 1

Assigned in: Analysis 8

Assignment to Lines:

177T184;277T284;377T384;477T484;577T584;677T684;777T784;877T884

Assigned in: Analysis 9

Loadcase ID: 2 Title: EGEN 1 Factor = 1

Assignment to Lines:

100T184;200T284;300T384;400T484;500T584;600T684;700T784;800T884

| | | | |
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14. Prestress

I samband med intern kontroll framkom önskemål om förtydligande angivna koordinater X, Y och Z.
Dessa avser lokala koordinater för definierade kabelföring.

I samband med intern kontroll framkom önskemål om förtydligande angivna koordinater X, Y och Z.
Dessa avser globala koordinater längs vald linje "segment" definierade av valda "assignment lines".
För att kvittera att vald kabelföring är införd korrekt så kvitteras dessa i några punkter betecknade "sampling points".

| | | | |
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14.1 Kabel KG 1

Tendon Summary - Kabel KG 1

| | Value | Units |
|---|-----------------------------------|-------------------|
| General | | |
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking from both ends | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 1

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,029 |
| Spline | 0,3 | 0,0 | 0,014 |
| Spline Continued | 1,5 | 0,0 | -0,045 |
| Spline Continued | 2,7 | 0,0 | -0,100 |
| Spline Continued | 5,2 | 0,0 | -0,200 |
| Spline Continued | 7,6 | 0,0 | -0,280 |
| Spline Continued | 10,0 | 0,0 | -0,300 |
| Spline Continued | 12,4 | 0,0 | -0,230 |
| Spline Continued | 14,8 | 0,0 | -0,100 |
| Spline Continued | 17,3 | 0,0 | 0,160 |
| Spline Continued | 19,7 | 0,0 | 0,390 |
| Spline Continued | 21,3 | 0,0 | 0,290 |
| Spline Continued | 22,8 | 0,0 | 0,150 |
| Spline Continued | 24,7 | 0,0 | -0,020 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,2 | | | |

Prestress Losses - Kabel KG 1

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 134,5 | 0,0 | 0,0 | 1215,5 |
| 4,6 | 124,6 | 0,0 | 0,0 | 1225,4 |
| 9,4 | 101,9 | 0,0 | 0,0 | 1248,1 |
| 14,2 | 74,4 | 0,0 | 0,0 | 1295,6 |
| 19,0 | 15,9 | 99,8 | 0,0 | 1234,3 |
| 23,7 | 1,0 | 129,5 | 0,0 | 1219,5 |
| 24,8 | 0,0 | 131,6 | 0,0 | 1218,4 |

| | | | |
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Tendon profile (sampling points) - Kabel KG 1 assignment 1

Assignment to Lines: 100T112

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | 3,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | 3,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | 3,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | 3,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | 3,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | 3,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 2

Assignment to Lines: 200T212

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | 2,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | 2,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | 2,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | 2,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | 2,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | 2,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 3

Assignment to Lines: 300T312

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | 1,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | 1,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | 1,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | 1,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | 1,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | 1,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 4

Assignment to Lines: 400T412

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | 0,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | 0,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | 0,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | 0,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | 0,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | 0,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

| | | | |
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Tendon profile (sampling points) - Kabel KG 1 assignment 5

Assignment to Lines: 500T512

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | -0,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | -0,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | -0,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | -0,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | -0,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | -0,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 6

Assignment to Lines: 600T612

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | -1,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | -1,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | -1,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | -1,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | -1,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | -1,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 7

Assignment to Lines: 700T712

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | -2,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | -2,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | -2,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | -2,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | -2,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | -2,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 1 assignment 8

Assignment to Lines: 800T812

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 4,7 | -3,5 | -0,2 | 4,6 | 1,1 | 0,0 | -0,2 |
| 9,5 | -3,5 | -0,3 | 9,4 | 3,4 | 0,0 | -0,3 |
| 14,3 | -3,5 | -0,1 | 14,2 | 4,2 | 0,0 | -0,1 |
| 19,0 | -3,5 | 0,4 | 18,9 | 9,5 | 0,0 | 0,4 |
| 23,8 | -3,5 | 0,1 | 23,7 | 1,7 | 0,0 | 0,1 |
| 24,8 | -3,5 | 0,0 | 24,8 | 0,0 | 0,0 | 0,0 |

| | | | |
|--|---|----------|-------------|
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Tendon Summary - Kabel KG 2

| | Value | Units |
|---|-----------------------------------|-------------------|
| General | | |
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 320000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 2

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | -0,020 |
| Spline | 1,3 | 0,0 | -0,130 |
| Spline Continued | 4,4 | 0,0 | -0,330 |
| Spline Continued | 7,5 | 0,0 | -0,410 |
| Spline Continued | 10,6 | 0,0 | -0,330 |
| Spline Continued | 13,8 | 0,0 | -0,120 |
| Spline Continued | 16,9 | 0,0 | 0,150 |
| Spline Continued | 20,0 | 0,0 | 0,350 |
| Spline Continued | 22,9 | 0,0 | 0,100 |
| Spline Continued | 24,9 | 0,0 | -0,080 |
| Spline Continued | 25,8 | 0,0 | -0,160 |
| Spline Continued | 28,7 | 0,0 | -0,300 |
| Spline Continued | 31,6 | 0,0 | -0,350 |
| Spline Continued | 34,5 | 0,0 | -0,250 |
| Spline Continued | 37,4 | 0,0 | 0,000 |
| Spline Continued | 40,3 | 0,0 | 0,270 |
| Spline Continued | 43,2 | 0,0 | 0,410 |
| Spline Continued | 45,1 | 0,0 | 0,350 |
| Spline Continued | 47,1 | 0,0 | 0,233 |
| Spline Continued | 49,4 | 0,0 | 0,084 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 2

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 179,7 | 0,0 | 0,0 | 1170,3 |
| 9,2 | 137,7 | 0,0 | 0,0 | 1212,3 |
| 18,3 | 88,7 | 0,0 | 0,0 | 1261,3 |
| 27,9 | 51,8 | 0,0 | 0,0 | 1298,2 |
| 37,5 | 41,2 | 19,5 | 0,0 | 1289,2 |
| 47,0 | 2,5 | 97,0 | 0,0 | 1250,5 |
| 49,5 | 0,0 | 102,0 | 0,0 | 1248,0 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 100 |
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Tendon profile (sampling points) - Kabel KG 2 assignment 1

Assignment to Lines: 111T130

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | 3,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | 3,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | 3,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | 3,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | 3,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | 3,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 2 assignment 2

Assignment to Lines: 211T230

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | 2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | 2,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | 2,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | 2,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | 2,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | 2,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | 2,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 2 assignment 3

Assignment to Lines: 311T330

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | 1,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | 1,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | 1,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | 1,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | 1,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | 1,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0, |

Tendon profile (sampling points) - Kabel KG 2 assignment 4

Assignment to Lines: 511T530

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | -0,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | -0,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | -0,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | -0,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | -0,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | -0,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 101 |
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Tendon profile (sampling points) - Kabel KG 2 assignment 5

Assignment to Lines: 611T630

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | -1,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | -1,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | -1,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | -1,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | -1,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | -1,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 2 assignment 6

Assignment to Lines: 711T730

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | -2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | -2,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | -2,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | -2,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | -2,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | -2,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | -2,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 2 assignment 7

Assignment to Lines: 811T830

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | -3,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | -3,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | -3,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | -3,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | -3,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | -3,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 2 assignment 8

Assignment to Lines: 411T430

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 24,9 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 34,0 | 0,5 | -0,4 | 9,1 | 6,5 | 0,0 | -0,4 |
| 43,2 | 0,5 | 0,3 | 18,3 | 7,5 | 0,0 | 0,3 |
| 52,7 | 0,5 | -0,3 | 27,9 | 5,0 | 0,0 | -0,3 |
| 62,3 | 0,5 | 0,0 | 37,4 | 0,2 | 0,0 | 0,0 |
| 71,9 | 0,5 | 0,2 | 47,0 | 5,0 | 0,0 | 0,2 |
| 74,3 | 0,5 | 0,1 | 49,4 | 0,0 | 0,0 | 0,1 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 102 |
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14.3 Kabel KG 3

Tendon Summary - Kabel KG 3

| | Value | Units |
|---|-----------------------------------|-------------------|
| General | | |
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 3

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,084 |
| Spline | 1,6 | 0,0 | -0,015 |
| Spline Continued | 5,4 | 0,0 | -0,218 |
| Spline Continued | 9,3 | 0,0 | -0,341 |
| Spline Continued | 13,2 | 0,0 | -0,305 |
| Spline Continued | 17,1 | 0,0 | -0,070 |
| Spline Continued | 20,9 | 0,0 | 0,170 |
| Spline Continued | 24,8 | 0,0 | 0,400 |
| Spline Continued | 28,7 | 0,0 | 0,214 |
| Spline Continued | 32,5 | 0,0 | 0,000 |
| Spline Continued | 36,4 | 0,0 | -0,297 |
| Spline Continued | 40,3 | 0,0 | -0,341 |
| Spline Continued | 44,2 | 0,0 | -0,244 |
| Spline Continued | 48,0 | 0,0 | -0,075 |
| Spline Continued | 51,9 | 0,0 | 0,170 |
| Spline Continued | 55,8 | 0,0 | 0,380 |
| Spline Continued | 58,9 | 0,0 | 0,370 |
| Spline Continued | 60,8 | 0,0 | 0,250 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 3

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 175,0 | 0,0 | 0,0 | 1175,0 |
| 11,3 | 136,4 | 0,0 | 0,0 | 1213,6 |
| 22,5 | 97,1 | 0,0 | 0,0 | 1252,9 |
| 34,3 | 75,4 | 0,0 | 0,0 | 1274,6 |
| 46,1 | 47,4 | 5,7 | 0,0 | 1296,9 |
| 57,9 | 3,1 | 94,4 | 0,0 | 1252,6 |
| 60,9 | 0,0 | 100,5 | 0,0 | 1249,5 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 103 |
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Tendon profile (sampling points) - Kabel KG 3 assignment 1

Assignment to Lines: 130T157

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 3,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | 3,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | 3,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | 3,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | 3,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | 3,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | 3,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 2

Assignment to Lines: 230T257

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 2,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | 2,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | 2,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | 2,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | 2,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | 2,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | 2,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 3

Assignment to Lines: 330T357

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 1,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | 1,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | 1,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | 1,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | 1,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | 1,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | 1,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 4

Assignment to Lines: 430T457

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 0,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | 0,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | 0,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | 0,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | 0,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | 0,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | 0,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 104 |
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Tendon profile (sampling points) - Kabel KG 3 assignment 5

Assignment to Lines: 530T557

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -0,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | -0,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | -0,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | -0,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | -0,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | -0,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | -0,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 6

Assignment to Lines: 630T657

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -1,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | -1,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | -1,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | -1,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | -1,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | -1,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | -1,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 7

Assignment to Lines: 730T757

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -2,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | -2,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | -2,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | -2,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | -2,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | -2,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | -2,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

Tendon profile (sampling points) - Kabel KG 3 assignment 8

Assignment to Lines: 830T857

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -3,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 85,5 | -3,5 | -0,4 | 11,2 | 5,5 | 0,0 | -0,4 |
| 96,8 | -3,5 | 0,3 | 22,5 | 5,4 | 0,0 | 0,3 |
| 108,6 | -3,5 | -0,1 | 34,3 | 1,9 | 0,0 | -0,1 |
| 120,3 | -3,5 | -0,2 | 46,0 | 3,0 | 0,0 | -0,2 |
| 132,1 | -3,5 | 0,4 | 57,8 | 5,6 | 0,0 | 0,4 |
| 135,1 | -3,5 | 0,3 | 60,8 | 0,0 | 0,0 | 0,3 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 105 |
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Tendon Summary - Kabel KG 4

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 4

| Segment type | X | Y | Z |
|------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,250 |
| Spline | 1,3 | 0,0 | 0,043 |
| Spline Continued | 4,4 | 0,0 | -0,250 |
| Spline Continued | 7,5 | 0,0 | -0,350 |
| Spline Continued | 10,6 | 0,0 | -0,300 |
| Spline Continued | 13,8 | 0,0 | -0,160 |
| Spline Continued | 16,9 | 0,0 | 0,100 |
| Spline Continued | 20,0 | 0,0 | 0,370 |
| Spline Continued | 21,6 | 0,0 | 0,298 |
| Spline Continued | 23,1 | 0,0 | 0,150 |
| Spline Continued | 25,0 | 0,0 | -0,010 |
| Spline Continued | 26,3 | 0,0 | -0,120 |
| Spline Continued | 29,4 | 0,0 | -0,330 |
| Spline Continued | 32,5 | 0,0 | -0,410 |
| Spline Continued | 35,6 | 0,0 | -0,333 |
| Spline Continued | 38,8 | 0,0 | -0,130 |
| Spline Continued | 41,9 | 0,0 | 0,150 |
| Spline Continued | 45,0 | 0,0 | 0,350 |
| Spline Continued | 46,2 | 0,0 | 0,300 |
| Spline Continued | 47,4 | 0,0 | 0,160 |
| Spline Continued | 48,9 | 0,0 | 0,005 |

Minimum radius = 0,0

Smoothing type: Cut corner

Offset distance from start: 0,0

Prestress Losses - Kabel KG 4

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 208,6 | 0,0 | 0,0 | 1141,4 |
| 9,1 | 163,1 | 0,0 | 0,0 | 1186,9 |
| 18,1 | 121,2 | 0,0 | 0,0 | 1228,8 |
| 27,2 | 101,9 | 0,0 | 0,0 | 1248,1 |
| 36,2 | 66,8 | 0,0 | 0,0 | 1293,2 |
| 45,3 | 3,7 | 112,7 | 0,0 | 1233,6 |
| 49,0 | 0,0 | 120,2 | 0,0 | 1229,8 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 106 |
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Tendon profile (sampling points) - Kabel KG 4 assignment 1

Assignment to Lines: 157T177

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | 3,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | 3,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | 3,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | 3,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | 3,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | 3,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | 3,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 2

Assignment to Lines: 257T277

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | 2,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | 2,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | 2,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | 2,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | 2,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | 2,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | 2,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 3

Assignment to Lines: 357T377

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | 1,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | 1,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | 1,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | 1,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | 1,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | 1,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | 1,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 4

Assignment to Lines: 457T477

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | 0,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | 0,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | 0,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | 0,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | 0,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | 0,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | 0,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 5

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 107 |
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Assignment to Lines: 557T577

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | -0,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | -0,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | -0,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | -0,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | -0,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | -0,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | -0,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 6

Assignment to Lines: 657T677

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | -1,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | -1,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | -1,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | -1,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | -1,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | -1,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | -1,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 7

Assignment to Lines: 757T777

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | -2,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | -2,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | -2,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | -2,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | -2,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | -2,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | -2,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 4 assignment 8

Assignment to Lines: 857T877

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 135,1 | -3,5 | 0,2 | 0,0 | 0,0 | 0,0 | 0,2 |
| 144,1 | -3,5 | -0,3 | 9,0 | 7,4 | 0,0 | -0,3 |
| 153,2 | -3,5 | 0,2 | 18,1 | 6,4 | 0,0 | 0,2 |
| 162,2 | -3,5 | -0,2 | 27,2 | 2,0 | 0,0 | -0,2 |
| 171,3 | -3,5 | -0,3 | 36,2 | 4,8 | 0,0 | -0,3 |
| 180,3 | -3,5 | 0,3 | 45,3 | 9,4 | 0,0 | 0,3 |
| 184,0 | -3,5 | 0,0 | 49,0 | 0,0 | 0,0 | 0,0 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 108 |
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14.5 Kabel KG 5

Tendon Summary - Kabel KG 5

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 5

| Segment type | X | Y | Z |
|------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,005 |
| Spline | 1,0 | 0,0 | -0,100 |
| Spline Continued | 3,4 | 0,0 | -0,230 |
| Spline Continued | 5,8 | 0,0 | -0,300 |
| Spline Continued | 8,2 | 0,0 | -0,280 |
| Spline Continued | 10,7 | 0,0 | -0,200 |
| Spline Continued | 13,1 | 0,0 | -0,100 |
| Spline Continued | 15,5 | 0,0 | 0,005 |
| Spline Continued | 15,8 | 0,0 | 0,010 |

Minimum radius = 0,0
Smoothing type: Cut corner

Prestress Losses - Kabel KG 5

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 61,6 | 0,0 | 0,0 | 1288,4 |
| 2,9 | 44,3 | 14,8 | 0,0 | 1291,9 |
| 5,8 | 27,7 | 48,0 | 0,0 | 1274,3 |
| 8,8 | 16,8 | 69,8 | 0,0 | 1263,4 |
| 11,7 | 10,2 | 83,0 | 0,0 | 1256,8 |
| 14,6 | 1,2 | 100,9 | 0,0 | 1247,9 |
| 15,8 | 0,0 | 103,4 | 0,0 | 1246,6 |

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Tendon profile (sampling points) - Kabel KG 5 assignment 1

Assignment to Lines: 177T184

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | 3,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | 3,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | 3,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | 3,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | 3,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | 3,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 2

Assignment to Lines: 277T284

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | 2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | 2,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | 2,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | 2,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | 2,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | 2,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | 2,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 3

Assignment to Lines: 377T384

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | 1,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | 1,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | 1,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | 1,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | 1,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | 1,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 4

Assignment to Lines: 477T484

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | 0,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | 0,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | 0,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | 0,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | 0,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | 0,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

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Tendon profile (sampling points) - Kabel KG 5 assignment 5

Assignment to Lines: 577T584

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | -0,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | -0,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | -0,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | -0,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | -0,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | -0,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 6

Assignment to Lines: 677T684

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | -1,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | -1,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | -1,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | -1,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | -1,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | -1,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 7

Assignment to Lines: 777T784

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | -2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | -2,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | -2,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | -2,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | -2,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | -2,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | -2,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 5 assignment 8

Assignment to Lines: 877T884

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 184,0 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 186,9 | -3,5 | -0,2 | 2,9 | 2,6 | 0,0 | -0,2 |
| 189,8 | -3,5 | -0,3 | 5,8 | 2,4 | 0,0 | -0,3 |
| 192,8 | -3,5 | -0,3 | 8,8 | 1,4 | 0,0 | -0,3 |
| 195,7 | -3,5 | -0,2 | 11,7 | 0,6 | 0,0 | -0,2 |
| 198,6 | -3,5 | 0,0 | 14,6 | 1,0 | 0,0 | 0,0 |
| 199,8 | -3,5 | 0,0 | 15,8 | 0,0 | 0,0 | 0,0 |

| | | | |
|--|---------------------------------------|----------|--------------|
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14.6 Kabel KG 6

Tendon Summary - Kabel KG 6

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1399,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking from both ends | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 6

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | -0,009 |
| Spline | 0,3 | 0,0 | -0,018 |
| Spline Continued | 1,5 | 0,0 | -0,055 |
| Spline Continued | 2,7 | 0,0 | -0,100 |
| Spline Continued | 5,2 | 0,0 | -0,200 |
| Spline Continued | 7,6 | 0,0 | -0,280 |
| Spline Continued | 10,0 | 0,0 | -0,300 |
| Spline Continued | 12,4 | 0,0 | -0,230 |
| Spline Continued | 14,8 | 0,0 | -0,100 |
| Spline Continued | 17,3 | 0,0 | 0,160 |
| Spline Continued | 19,7 | 0,0 | 0,390 |
| Spline Continued | 21,3 | 0,0 | 0,290 |
| Spline Continued | 22,8 | 0,0 | 0,150 |
| Spline Continued | 24,7 | 0,0 | -0,020 |
| Spline Continued | 25,9 | 0,0 | -0,130 |
| Spline Continued | 29,1 | 0,0 | -0,330 |
| Spline Continued | 32,2 | 0,0 | -0,410 |
| Spline Continued | 35,3 | 0,0 | -0,330 |
| Spline Continued | 38,5 | 0,0 | -0,120 |
| Spline Continued | 41,6 | 0,0 | 0,150 |
| Spline Continued | 44,7 | 0,0 | 0,350 |
| Spline Continued | 46,1 | 0,0 | 0,230 |
| Spline Continued | 47,6 | 0,0 | 0,100 |
| Spline Continued | 49,6 | 0,0 | -0,080 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,2 | | | |

Prestress Losses - Kabel KG 6

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 185,8 | 0,0 | 0,0 | 1164,2 |
| 9,2 | 148,3 | 0,0 | 0,0 | 1201,7 |
| 18,8 | 98,5 | 0,0 | 0,0 | 1251,5 |
| 28,4 | 63,8 | 0,0 | 0,0 | 1286,2 |
| 38,0 | 50,3 | 15,5 | 0,0 | 1294,2 |
| 47,6 | 2,1 | 111,9 | 0,0 | 1236,0 |
| 49,7 | 0,0 | 116,1 | 0,0 | 1233,9 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 112 |
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Tendon profile (sampling points) - Kabel KG 6 assignment 1

Assignment to Lines: 100T121

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | 3,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | 3,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | 3,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | 3,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | 3,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | 3,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 2

Assignment to Lines: 200T221

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | 2,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | 2,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | 2,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | 2,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | 2,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | 2,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 3

Assignment to Lines: 300T321

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | 1,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | 1,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | 1,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | 1,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | 1,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | 1,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 4

Assignment to Lines: 400T421

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | 0,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | 0,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | 0,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | 0,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | 0,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | 0,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

| | | | |
|--|---|----------|--------------|
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Tendon profile (sampling points) - Kabel KG 6 assignment 5

Assignment to Lines: 500T521

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | -0,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | -0,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | -0,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | -0,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | -0,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | -0,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 6

Assignment to Lines: 600T621

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | -1,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | -1,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | -1,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | -1,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | -1,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | -1,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 7

Assignment to Lines: 700T721

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | -2,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | -2,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | -2,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | -2,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | -2,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | -2,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 6 assignment 8

Assignment to Lines: 800T821

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 0,1 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 9,3 | -3,5 | -0,3 | 9,2 | 5,7 | 0,0 | -0,3 |
| 18,9 | -3,5 | 0,3 | 18,8 | 7,7 | 0,0 | 0,3 |
| 28,5 | -3,5 | -0,3 | 28,4 | 4,6 | 0,0 | -0,3 |
| 38,1 | -3,5 | -0,2 | 38,0 | 0,7 | 0,0 | -0,2 |
| 47,7 | -3,5 | 0,1 | 47,6 | 6,7 | 0,0 | 0,1 |
| 49,7 | -3,5 | -0,1 | 49,6 | 0,0 | 0,0 | -0,1 |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 114 |
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14.7 Kabel KG 7

Tendon Summary - Kabel KG 7

| | Value | Units |
|---|-----------------------------------|-------------------|
| General | | |
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 7

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | -0,080 |
| Spline | 0,9 | 0,0 | -0,160 |
| Spline Continued | 3,8 | 0,0 | -0,300 |
| Spline Continued | 6,7 | 0,0 | -0,350 |
| Spline Continued | 9,6 | 0,0 | -0,250 |
| Spline Continued | 12,5 | 0,0 | 0,0 |
| Spline Continued | 15,4 | 0,0 | 0,270 |
| Spline Continued | 18,3 | 0,0 | 0,410 |
| Spline Continued | 22,2 | 0,0 | 0,233 |
| Spline Continued | 26,1 | 0,0 | -0,032 |
| Spline Continued | 29,9 | 0,0 | -0,282 |
| Spline Continued | 33,8 | 0,0 | -0,367 |
| Spline Continued | 37,7 | 0,0 | -0,320 |
| Spline Continued | 39,6 | 0,0 | -0,212 |
| Spline Continued | 41,5 | 0,0 | -0,070 |
| Spline Continued | 45,4 | 0,0 | 0,170 |
| Spline Continued | 49,3 | 0,0 | 0,400 |
| Spline Continued | 53,2 | 0,0 | 0,214 |
| Spline Continued | 55,1 | 0,0 | 0,105 |
| Spline Continued | 55,8 | 0,0 | 0,069 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 7

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 172,2 | 0,0 | 0,0 | 1177,8 |
| 10,3 | 144,3 | 0,0 | 0,0 | 1205,7 |
| 20,7 | 99,5 | 0,0 | 0,0 | 1250,5 |
| 31,0 | 62,4 | 0,0 | 0,0 | 1287,6 |
| 41,3 | 47,0 | 4,5 | 0,0 | 1298,5 |
| 51,7 | 4,2 | 90,1 | 0,0 | 1255,7 |
| 55,9 | 0,0 | 98,5 | 0,0 | 1251,5 |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 115 |
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Tendon profile (sampling points) - Kabel KG 7 assignment 1

Assignment to Lines: 121T144

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | 3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | 3,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | 3,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | 3,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | 3,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | 3,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | 3,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 2

Assignment to Lines: 221T244

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | 2,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | 2,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | 2,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | 2,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | 2,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | 2,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | 2,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 3

Assignment to Lines: 321T344

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | 1,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | 1,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | 1,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | 1,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | 1,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | 1,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | 1,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 4

Assignment to Lines: 421T444

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | 0,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | 0,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | 0,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | 0,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | 0,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | 0,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | 0,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

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|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 116 |
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Tendon profile (sampling points) - Kabel KG 7 assignment 5

Assignment to Lines: 521T544

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | -0,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | -0,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | -0,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | -0,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | -0,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | -0,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | -0,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 6

Assignment to Lines: 621T644

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | -1,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | -1,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | -1,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | -1,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | -1,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | -1,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | -1,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 7

Assignment to Lines: 721T744

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | -2,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | -2,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | -2,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | -2,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | -2,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | -2,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | -2,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

Tendon profile (sampling points) - Kabel KG 7 assignment 8

Assignment to Lines: 821T844

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 49,8 | -3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 60,1 | -3,5 | -0,2 | 10,3 | 3,6 | 0,0 | -0,2 |
| 70,5 | -3,5 | 0,3 | 20,6 | 6,6 | 0,0 | 0,3 |
| 80,8 | -3,5 | -0,3 | 31,0 | 4,9 | 0,0 | -0,3 |
| 91,1 | -3,5 | -0,1 | 41,3 | 0,9 | 0,0 | -0,1 |
| 101,4 | -3,5 | 0,3 | 51,7 | 5,6 | 0,0 | 0,3 |
| 105,6 | -3,5 | 0,1 | 55,8 | 0,0 | 0,0 | 0,1 |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 117 |
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14.8 Kabel KG 8

Tendon Summary - Kabel KG 8

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 8

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,069 |
| Spline | 1,3 | 0,0 | -0,022 |
| Spline Continued | 5,1 | 0,0 | -0,327 |
| Spline Continued | 9,0 | 0,0 | -0,367 |
| Spline Continued | 12,9 | 0,0 | -0,383 |
| Spline Continued | 16,8 | 0,0 | -0,090 |
| Spline Continued | 20,6 | 0,0 | 0,170 |
| Spline Continued | 24,5 | 0,0 | 0,380 |
| Spline Continued | 27,6 | 0,0 | 0,334 |
| Spline Continued | 30,8 | 0,0 | -0,039 |
| Spline Continued | 33,9 | 0,0 | -0,250 |
| Spline Continued | 37,0 | 0,0 | -0,350 |
| Spline Continued | 40,1 | 0,0 | -0,300 |
| Spline Continued | 43,3 | 0,0 | -0,160 |
| Spline Continued | 46,4 | 0,0 | 0,100 |
| Spline Continued | 49,5 | 0,0 | 0,370 |
| Spline Continued | 52,6 | 0,0 | 0,150 |
| Spline Continued | 54,5 | 0,0 | -0,020 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 8

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 165,6 | 0,0 | 0,0 | 1184,4 |
| 10,1 | 129,3 | 0,0 | 0,0 | 1220,7 |
| 20,2 | 99,8 | 0,0 | 0,0 | 1250,2 |
| 30,8 | 88,6 | 0,0 | 0,0 | 1261,4 |
| 41,3 | 57,3 | 1,0 | 0,0 | 1293,8 |
| 51,9 | 2,7 | 110,1 | 0,0 | 1237,2 |
| 54,6 | 0,0 | 115,5 | 0,0 | 1234,5 |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 118 |
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Tendon profile (sampling points) - Kabel KG 8 assignment 1

Assignment to Lines: 144T167

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 3,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | 3,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | 3,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | 3,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | 3,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | 3,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | 3,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 2

Assignment to Lines: 244T267

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 2,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | 2,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | 2,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | 2,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | 2,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | 2,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | 2,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 3

Assignment to Lines: 344T367

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 1,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | 1,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | 1,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | 1,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | 1,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | 1,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | 1,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 4

Assignment to Lines: 444T467

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 0,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | 0,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | 0,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | 0,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | 0,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | 0,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | 0,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 119 |
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Tendon profile (sampling points) - Kabel KG 8 assignment 5

Assignment to Lines: 544T567

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -0,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | -0,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | -0,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | -0,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | -0,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | -0,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | -0,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 6

Assignment to Lines: 644T667

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -1,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | -1,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | -1,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | -1,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | -1,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | -1,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | -1,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 7

Assignment to Lines: 744T767

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -2,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | -2,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | -2,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | -2,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | -2,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | -2,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | -2,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 8 assignment 8

Assignment to Lines: 844T867

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -3,5 | 0,1 | 0,0 | 0,0 | 0,0 | 0,1 |
| 115,7 | -3,5 | -0,4 | 10,1 | 5,2 | 0,0 | -0,4 |
| 125,8 | -3,5 | 0,1 | 20,2 | 3,7 | 0,0 | 0,1 |
| 136,3 | -3,5 | 0,0 | 30,7 | 0,2 | 0,0 | 0,0 |
| 146,9 | -3,5 | -0,3 | 41,3 | 3,8 | 0,0 | -0,3 |
| 157,5 | -3,5 | 0,2 | 51,9 | 7,7 | 0,0 | 0,2 |
| 160,1 | -3,5 | 0,0 | 54,5 | 0,0 | 0,0 | 0,0 |

| | | | |
|--|---------------------------------------|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 120 |
| | Pretensioned slab bridge: hollow deck | Date : | Created : |

14.9 Kabel KG 9

Tendon Summary - Kabel KG 9

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 9

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | 0,0 |
| Spline | 1,3 | 0,0 | -0,160 |
| Spline Continued | 4,4 | 0,0 | -0,350 |
| Spline Continued | 7,5 | 0,0 | -0,400 |
| Spline Continued | 10,6 | 0,0 | -0,350 |
| Spline Continued | 13,8 | 0,0 | -0,160 |
| Spline Continued | 16,9 | 0,0 | 0,240 |
| Spline Continued | 20,0 | 0,0 | 0,400 |
| Spline Continued | 22,4 | 0,0 | -0,160 |
| Spline Continued | 23,9 | 0,0 | -0,350 |
| Spline Continued | 24,9 | 0,0 | -0,400 |
| Spline Continued | 27,3 | 0,0 | -0,380 |
| Spline Continued | 29,7 | 0,0 | -0,340 |
| Spline Continued | 32,1 | 0,0 | -0,200 |
| Spline Continued | 34,6 | 0,0 | 0,0 |
| Spline Continued | 37,0 | 0,0 | 0,060 |
| Spline Continued | 39,4 | 0,0 | -0,200 |
| Spline Continued | 39,7 | 0,0 | 0,0 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 9

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 129,0 | 0,0 | 0,0 | 1221,0 |
| 7,4 | 90,7 | 0,0 | 0,0 | 1259,3 |
| 14,7 | 64,3 | 0,0 | 0,0 | 1285,7 |
| 22,5 | 54,5 | 0,0 | 0,0 | 1295,5 |
| 30,2 | 33,6 | 39,5 | 0,0 | 1276,9 |
| 37,9 | 1,9 | 102,9 | 0,0 | 1245,2 |
| 39,7 | 0,0 | 106,7 | 0,0 | 1243,3 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 121 |
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Tendon profile (sampling points) - Kabel KG 9 assignment 1

Assignment to Lines: 167T184

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | 3,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | 3,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | 3,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | 3,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | 3,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | 3,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 2

Assignment to Lines: 267T284

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | 2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | 2,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | 2,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | 2,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | 2,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | 2,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | 2,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 3

Assignment to Lines: 367T384

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | 1,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | 1,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | 1,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | 1,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | 1,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | 1,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 4

Assignment to Lines: 467T484

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | 0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | 0,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | 0,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | 0,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | 0,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | 0,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | 0,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 122 |
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Tendon profile (sampling points) - Kabel KG 9 assignment 5

Assignment to Lines: 567T584

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | -0,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | -0,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | -0,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | -0,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | -0,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | -0,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 6

Assignment to Lines: 667T684

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | -1,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | -1,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | -1,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | -1,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | -1,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | -1,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 7

Assignment to Lines: 767T784

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | -2,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | -2,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | -2,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | -2,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | -2,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | -2,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | -2,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 9 assignment 8

Assignment to Lines: 867T884

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 160,1 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 167,5 | -3,5 | -0,4 | 7,4 | 5,8 | 0,0 | -0,4 |
| 174,8 | -3,5 | -0,1 | 14,7 | 3,5 | 0,0 | -0,1 |
| 182,5 | -3,5 | -0,2 | 22,4 | 0,4 | 0,0 | -0,2 |
| 190,3 | -3,5 | -0,3 | 30,2 | 2,3 | 0,0 | -0,3 |
| 197,9 | -3,5 | -0,2 | 37,8 | 4,1 | 0,0 | -0,2 |
| 199,8 | -3,5 | 0,0 | 39,7 | 0,0 | 0,0 | 0,0 |

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| | Appendix 1: Input receipt SYSTEM 001 | Status : | Page: 123 |
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14.10 Kabel KG 10

Tendon Summary - Kabel KG 10

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,0 | m |
| Jack angle at end 2 | 0,004 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 10

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 39,1 | 0,0 | -0,050 |
| Spline | 40,3 | 0,0 | 0,165 |
| Spline Continued | 43,2 | 0,0 | 0,305 |
| Spline Continued | 45,1 | 0,0 | 0,180 |
| Spline Continued | 47,1 | 0,0 | -0,060 |
| Spline Continued | 49,4 | 0,0 | -0,200 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 10

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 176,4 | 0,0 | 0,0 | 1173,6 |
| 1,9 | 138,6 | 0,0 | 0,0 | 1211,4 |
| 3,8 | 52,4 | 4,7 | 0,0 | 1292,8 |
| 5,8 | 71,2 | 87,2 | 0,0 | 1191,6 |
| 7,7 | 31,5 | 166,6 | 0,0 | 1151,9 |
| 9,7 | 0,7 | 228,2 | 0,0 | 1121,1 |
| 10,4 | 0,0 | 229,6 | 0,0 | 1120,4 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 124 |
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Tendon profile (sampling points) - Kabel KG 10 assignment 1

Assignment to Lines: 111T130

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | 3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 65,9 | 3,5 | 0,2 | 1,9 | 6,9 | 0,0 | 0,2 |
| 67,8 | 3,5 | 0,3 | 3,8 | 4,6 | 0,0 | 0,3 |
| 69,7 | 3,5 | 0,2 | 5,8 | 7,2 | 0,0 | 0,2 |
| 71,6 | 3,5 | -0,1 | 7,7 | 6,7 | 0,0 | -0,1 |
| 73,6 | 3,5 | -0,2 | 9,7 | 4,9 | 0,0 | -0,2 |
| 74,3 | 3,5 | -0,2 | 10,4 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 10 assignment 2

Assignment to Lines: 311T330

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | 1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 65,9 | 1,5 | 0,2 | 1,9 | 6,9 | 0,0 | 0,2 |
| 67,8 | 1,5 | 0,3 | 3,8 | 4,6 | 0,0 | 0,3 |
| 69,7 | 1,5 | 0,2 | 5,8 | 7,2 | 0,0 | 0,2 |
| 71,6 | 1,5 | -0,1 | 7,7 | 6,7 | 0,0 | -0,1 |
| 73,6 | 1,5 | -0,2 | 9,7 | 4,9 | 0,0 | -0,2 |
| 74,3 | 1,5 | -0,2 | 10,4 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 10 assignment 3

Assignment to Lines: 511T530

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | -0,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 65,9 | -0,5 | 0,2 | 1,9 | 6,9 | 0,0 | 0,2 |
| 67,8 | -0,5 | 0,3 | 3,8 | 4,6 | 0,0 | 0,3 |
| 69,7 | -0,5 | 0,2 | 5,8 | 7,2 | 0,0 | 0,2 |
| 71,6 | -0,5 | -0,1 | 7,7 | 6,7 | 0,0 | -0,1 |
| 73,6 | -0,5 | -0,2 | 9,7 | 4,9 | 0,0 | -0,2 |
| 74,3 | -0,5 | -0,2 | 10,4 | 0,0 | 0,0 | -0,2 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 125 |
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Tendon profile (sampling points) - Kabel KG 10 assignment 4

Assignment to Lines: 611T630

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | -1,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 65,9 | -1,5 | 0,2 | 1,9 | 6,9 | 0,0 | 0,2 |
| 67,8 | -1,5 | 0,3 | 3,8 | 4,6 | 0,0 | 0,3 |
| 69,7 | -1,5 | 0,2 | 5,8 | 7,2 | 0,0 | 0,2 |
| 71,6 | -1,5 | -0,1 | 7,7 | 6,7 | 0,0 | -0,1 |
| 73,6 | -1,5 | -0,2 | 9,7 | 4,9 | 0,0 | -0,2 |
| 74,3 | -1,5 | -0,2 | 10,4 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 10 assignment 5

Assignment to Lines: 811T830

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | -3,5 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| 65,9 | -3,5 | 0,2 | 1,9 | 6,9 | 0,0 | 0,2 |
| 67,8 | -3,5 | 0,3 | 3,8 | 4,6 | 0,0 | 0,3 |
| 69,7 | -3,5 | 0,2 | 5,8 | 7,2 | 0,0 | 0,2 |
| 71,6 | -3,5 | -0,1 | 7,7 | 6,7 | 0,0 | -0,1 |
| 73,6 | -3,5 | -0,2 | 9,7 | 4,9 | 0,0 | -0,2 |
| 74,3 | -3,5 | -0,2 | 10,4 | 0,0 | 0,0 | -0,2 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 126 |
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14.11 Kabel KG 11

Tendon Summary - Kabel KG 11

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,0 | m |
| Jack angle at end 2 | 0,004 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 11

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 0,0 | 0,0 | -0,200 |
| Spline | 1,6 | 0,0 | -0,270 |
| Spline Continued | 5,4 | 0,0 | -0,370 |
| Spline Continued | 9,3 | 0,0 | -0,420 |
| Spline Continued | 13,2 | 0,0 | -0,410 |
| Spline Continued | 17,1 | 0,0 | -0,225 |
| Spline Continued | 20,9 | 0,0 | 0,040 |
| Spline Continued | 24,8 | 0,0 | 0,295 |
| Spline Continued | 28,7 | 0,0 | -0,030 |
| Spline Continued | 32,5 | 0,0 | -0,285 |
| Spline Continued | 36,4 | 0,0 | -0,420 |
| Spline Continued | 40,3 | 0,0 | -0,420 |
| Spline Continued | 44,2 | 0,0 | -0,260 |
| Spline Continued | 48,0 | 0,0 | -0,180 |
| Spline Continued | 51,9 | 0,0 | 0,040 |
| Spline Continued | 55,8 | 0,0 | 0,250 |
| Spline Continued | 58,9 | 0,0 | 0,055 |
| Spline Continued | 60,8 | 0,0 | -0,090 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 11

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 175,6 | 0,0 | 0,0 | 1174,4 |
| 11,2 | 142,7 | 0,0 | 0,0 | 1207,3 |
| 23,0 | 98,9 | 0,0 | 0,0 | 1251,1 |
| 34,8 | 68,2 | 0,0 | 0,0 | 1281,8 |
| 46,6 | 50,1 | 5,4 | 0,0 | 1294,6 |
| 58,4 | 2,6 | 100,4 | 0,0 | 1247,0 |
| 60,9 | 0,0 | 105,5 | 0,0 | 1244,5 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 127 |
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Tendon profile (sampling points) - Kabel KG 11 assignment 1

Assignment to Lines: 130T157

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 3,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 85,5 | 3,5 | -0,4 | 11,2 | 4,4 | 0,0 | -0,4 |
| 97,3 | 3,5 | 0,2 | 23,0 | 6,2 | 0,0 | 0,2 |
| 109,1 | 3,5 | -0,4 | 34,8 | 3,5 | 0,0 | -0,4 |
| 120,8 | 3,5 | -0,3 | 46,6 | 1,2 | 0,0 | -0,3 |
| 132,6 | 3,5 | 0,1 | 58,3 | 6,2 | 0,0 | 0,1 |
| 135,1 | 3,5 | -0,1 | 60,8 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 11 assignment 2

Assignment to Lines: 330T357

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | 1,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 85,5 | 1,5 | -0,4 | 11,2 | 4,4 | 0,0 | -0,4 |
| 97,3 | 1,5 | 0,2 | 23,0 | 6,2 | 0,0 | 0,2 |
| 109,1 | 1,5 | -0,4 | 34,8 | 3,5 | 0,0 | -0,4 |
| 120,8 | 1,5 | -0,3 | 46,6 | 1,2 | 0,0 | -0,3 |
| 132,6 | 1,5 | 0,1 | 58,3 | 6,2 | 0,0 | 0,1 |
| 135,1 | 1,5 | -0,1 | 60,8 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 11 assignment 3

Assignment to Lines: 530T557

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -0,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 85,5 | -0,5 | -0,4 | 11,2 | 4,4 | 0,0 | -0,4 |
| 97,3 | -0,5 | 0,2 | 23,0 | 6,2 | 0,0 | 0,2 |
| 109,1 | -0,5 | -0,4 | 34,8 | 3,5 | 0,0 | -0,4 |
| 120,8 | -0,5 | -0,3 | 46,6 | 1,2 | 0,0 | -0,3 |
| 132,6 | -0,5 | 0,1 | 58,3 | 6,2 | 0,0 | 0,1 |
| 135,1 | -0,5 | -0,1 | 60,8 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 11 assignment 4

Assignment to Lines: 630T657

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -1,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 85,5 | -1,5 | -0,4 | 11,2 | 4,4 | 0,0 | -0,4 |
| 97,3 | -1,5 | 0,2 | 23,0 | 6,2 | 0,0 | 0,2 |
| 109,1 | -1,5 | -0,4 | 34,8 | 3,5 | 0,0 | -0,4 |
| 120,8 | -1,5 | -0,3 | 46,6 | 1,2 | 0,0 | -0,3 |
| 132,6 | -1,5 | 0,1 | 58,3 | 6,2 | 0,0 | 0,1 |
| 135,1 | -1,5 | -0,1 | 60,8 | 0,0 | 0,0 | -0,1 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 128 |
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Tendon profile (sampling points) - Kabel KG 11 assignment 5

Assignment to Lines: 830T857

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 74,3 | -3,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 85,5 | -3,5 | -0,4 | 11,2 | 4,4 | 0,0 | -0,4 |
| 97,3 | -3,5 | 0,2 | 23,0 | 6,2 | 0,0 | 0,2 |
| 109,1 | -3,5 | -0,4 | 34,8 | 3,5 | 0,0 | -0,4 |
| 120,8 | -3,5 | -0,3 | 46,6 | 1,2 | 0,0 | -0,3 |
| 132,6 | -3,5 | 0,1 | 58,3 | 6,2 | 0,0 | 0,1 |
| 135,1 | -3,5 | -0,1 | 60,8 | 0,0 | 0,0 | -0,1 |

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14.12 Kabel KG 12

Tendon Summary - Kabel KG 12

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 12

| Segment type | X | Y | Z |
|------------------|------|-----|--------|
| Start | 14,2 | 0,0 | -0,050 |
| Spline | 15,4 | 0,0 | 0,165 |
| Spline Continued | 18,3 | 0,0 | 0,305 |
| Spline Continued | 22,2 | 0,0 | -0,060 |
| Spline Continued | 26,1 | 0,0 | -0,270 |
| Spline Continued | 29,9 | 0,0 | -0,370 |
| Spline Continued | 33,8 | 0,0 | -0,420 |
| Spline Continued | 37,7 | 0,0 | -0,410 |
| Spline Continued | 41,5 | 0,0 | -0,225 |
| Spline Continued | 45,4 | 0,0 | 0,040 |
| Spline Continued | 49,3 | 0,0 | 0,295 |
| Spline Continued | 53,2 | 0,0 | -0,030 |
| Spline Continued | 55,8 | 0,0 | -0,215 |

Minimum radius = 0,0
Smoothing type: Cut corner
Offset distance from start: 0,0

Prestress Losses - Kabel KG 12

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 125,3 | 0,0 | 0,0 | 1224,7 |
| 8,1 | 106,8 | 0,0 | 0,0 | 1243,2 |
| 16,1 | 87,6 | 0,0 | 0,0 | 1262,4 |
| 24,2 | 58,8 | 0,0 | 0,0 | 1292,2 |
| 32,3 | 18,5 | 57,3 | 0,0 | 1274,2 |
| 40,3 | 1,4 | 91,6 | 0,0 | 1257,0 |
| 41,7 | 0,0 | 94,3 | 0,0 | 1255,7 |

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Tendon profile (sampling points) - Kabel KG 12 assignment 1

Assignment to Lines: 221T244

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | 2,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 72,1 | 2,5 | -0,1 | 8,0 | 2,1 | 0,0 | -0,1 |
| 80,1 | 2,5 | -0,4 | 16,1 | 2,1 | 0,0 | -0,4 |
| 88,2 | 2,5 | -0,4 | 24,2 | 3,8 | 0,0 | -0,4 |
| 96,3 | 2,5 | 0,1 | 32,3 | 5,6 | 0,0 | 0,1 |
| 104,3 | 2,5 | -0,1 | 40,3 | 1,6 | 0,0 | -0,1 |
| 105,6 | 2,5 | -0,2 | 41,6 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 12 assignment 2

Assignment to Lines: 321T344

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | 1,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 72,1 | 1,5 | -0,1 | 8,0 | 2,1 | 0,0 | -0,1 |
| 80,1 | 1,5 | -0,4 | 16,1 | 2,1 | 0,0 | -0,4 |
| 88,2 | 1,5 | -0,4 | 24,2 | 3,8 | 0,0 | -0,4 |
| 96,3 | 1,5 | 0,1 | 32,3 | 5,6 | 0,0 | 0,1 |
| 104,3 | 1,5 | -0,1 | 40,3 | 1,6 | 0,0 | -0,1 |
| 105,6 | 1,5 | -0,2 | 41,6 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 12 assignment 3

Assignment to Lines: 421T444

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | 0,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 72,1 | 0,5 | -0,1 | 8,0 | 2,1 | 0,0 | -0,1 |
| 80,1 | 0,5 | -0,4 | 16,1 | 2,1 | 0,0 | -0,4 |
| 88,2 | 0,5 | -0,4 | 24,2 | 3,8 | 0,0 | -0,4 |
| 96,3 | 0,5 | 0,1 | 32,3 | 5,6 | 0,0 | 0,1 |
| 104,3 | 0,5 | -0,1 | 40,3 | 1,6 | 0,0 | -0,1 |
| 105,6 | 0,5 | -0,2 | 41,6 | 0,0 | 0,0 | -0,2 |

Tendon profile (sampling points) - Kabel KG 12 assignment 4

Assignment to Lines: 621T644

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | -1,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 72,1 | -1,5 | -0,1 | 8,0 | 2,1 | 0,0 | -0,1 |
| 80,1 | -1,5 | -0,4 | 16,1 | 2,1 | 0,0 | -0,4 |
| 88,2 | -1,5 | -0,4 | 24,2 | 3,8 | 0,0 | -0,4 |
| 96,3 | -1,5 | 0,1 | 32,3 | 5,6 | 0,0 | 0,1 |
| 104,3 | -1,5 | -0,1 | 40,3 | 1,6 | 0,0 | -0,1 |
| 105,6 | -1,5 | -0,2 | 41,6 | 0,0 | 0,0 | -0,2 |

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Tendon profile (sampling points) - Kabel KG 12 assignment 5

Assignment to Lines: 721T744

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 64,0 | -2,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 72,1 | -2,5 | -0,1 | 8,0 | 2,1 | 0,0 | -0,1 |
| 80,1 | -2,5 | -0,4 | 16,1 | 2,1 | 0,0 | -0,4 |
| 88,2 | -2,5 | -0,4 | 24,2 | 3,8 | 0,0 | -0,4 |
| 96,3 | -2,5 | 0,1 | 32,3 | 5,6 | 0,0 | 0,1 |
| 104,3 | -2,5 | -0,1 | 40,3 | 1,6 | 0,0 | -0,1 |
| 105,6 | -2,5 | -0,2 | 41,6 | 0,0 | 0,0 | -0,2 |

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14.13 Kabel KG 13

Tendon Summary - Kabel KG 13

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 13

| Segment type | X | Y | Z |
|---------------------------------|------|-----|--------|
| Start | 31,3 | 0,0 | -0,215 |
| Spline | 32,5 | 0,0 | -0,285 |
| Spline Continued | 36,4 | 0,0 | -0,420 |
| Spline Continued | 40,3 | 0,0 | -0,420 |
| Spline Continued | 44,2 | 0,0 | -0,360 |
| Spline Continued | 48,0 | 0,0 | -0,180 |
| Spline Continued | 51,9 | 0,0 | 0,040 |
| Spline Continued | 55,8 | 0,0 | 0,250 |
| Spline Continued | 58,9 | 0,0 | 0,055 |
| Spline Continued | 60,8 | 0,0 | -0,090 |
| Minimum radius = 0,0 | | | |
| Smoothing type: Cut corner | | | |
| Offset distance from start: 0,0 | | | |

Prestress Losses - Kabel KG 13

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 105,2 | 0,0 | 0,0 | 1244,8 |
| 5,5 | 86,8 | 0,0 | 0,0 | 1263,2 |
| 10,9 | 71,1 | 0,0 | 0,0 | 1278,9 |
| 16,4 | 57,3 | 0,9 | 0,0 | 1291,8 |
| 21,8 | 29,0 | 59,3 | 0,0 | 1261,6 |
| 27,6 | 2,0 | 113,4 | 0,0 | 1234,6 |
| 29,6 | 0,0 | 117,4 | 0,0 | 1232,6 |

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Tendon profile (sampling points) - Kabel KG 13 assignment 1

Assignment to Lines: 230T257

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 2,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 111,1 | 2,5 | -0,4 | 5,4 | 2,4 | 0,0 | -0,4 |
| 116,5 | 2,5 | -0,4 | 10,9 | 1,9 | 0,0 | -0,4 |
| 122,0 | 2,5 | -0,2 | 16,4 | 1,4 | 0,0 | -0,2 |
| 127,4 | 2,5 | 0,1 | 21,8 | 4,2 | 0,0 | 0,1 |
| 133,1 | 2,5 | 0,1 | 27,6 | 3,7 | 0,0 | 0,1 |
| 135,1 | 2,5 | -0,1 | 29,5 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 13 assignment 2

Assignment to Lines: 330T357

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 1,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 111,1 | 1,5 | -0,4 | 5,4 | 2,4 | 0,0 | -0,4 |
| 116,5 | 1,5 | -0,4 | 10,9 | 1,9 | 0,0 | -0,4 |
| 122,0 | 1,5 | -0,2 | 16,4 | 1,4 | 0,0 | -0,2 |
| 127,4 | 1,5 | 0,1 | 21,8 | 4,2 | 0,0 | 0,1 |
| 133,1 | 1,5 | 0,1 | 27,6 | 3,7 | 0,0 | 0,1 |
| 135,1 | 1,5 | -0,1 | 29,5 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 13 assignment 3

Assignment to Lines: 430T457

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | 0,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 111,1 | 0,5 | -0,4 | 5,4 | 2,4 | 0,0 | -0,4 |
| 116,5 | 0,5 | -0,4 | 10,9 | 1,9 | 0,0 | -0,4 |
| 122,0 | 0,5 | -0,2 | 16,4 | 1,4 | 0,0 | -0,2 |
| 127,4 | 0,5 | 0,1 | 21,8 | 4,2 | 0,0 | 0,1 |
| 133,1 | 0,5 | 0,1 | 27,6 | 3,7 | 0,0 | 0,1 |
| 135,1 | 0,5 | -0,1 | 29,5 | 0,0 | 0,0 | -0,1 |

Tendon profile (sampling points) - Kabel KG 13 assignment 4

Assignment to Lines: 630T657

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -1,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 111,1 | -1,5 | -0,4 | 5,4 | 2,4 | 0,0 | -0,4 |
| 116,5 | -1,5 | -0,4 | 10,9 | 1,9 | 0,0 | -0,4 |
| 122,0 | -1,5 | -0,2 | 16,4 | 1,4 | 0,0 | -0,2 |
| 127,4 | -1,5 | 0,1 | 21,8 | 4,2 | 0,0 | 0,1 |
| 133,1 | -1,5 | 0,1 | 27,6 | 3,7 | 0,0 | 0,1 |
| 135,1 | -1,5 | -0,1 | 29,5 | 0,0 | 0,0 | -0,1 |

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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 134 |
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Tendon profile (sampling points) - Kabel KG 13 assignment 5

Assignment to Lines: 730T757

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|-------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 105,6 | -2,5 | -0,2 | 0,0 | 0,0 | 0,0 | -0,2 |
| 111,1 | -2,5 | -0,4 | 5,4 | 2,4 | 0,0 | -0,4 |
| 116,5 | -2,5 | -0,4 | 10,9 | 1,9 | 0,0 | -0,4 |
| 122,0 | -2,5 | -0,2 | 16,4 | 1,4 | 0,0 | -0,2 |
| 127,4 | -2,5 | 0,1 | 21,8 | 4,2 | 0,0 | 0,1 |
| 133,1 | -2,5 | 0,1 | 27,6 | 3,7 | 0,0 | 0,1 |
| 135,1 | -2,5 | -0,1 | 29,5 | 0,0 | 0,0 | -0,1 |

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|--|---------------------------------------|----------|--------------|
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4.14 Kabel KG 14

Tendon Summary - Kabel KG

| General | Value | Units |
|---|-----------------------------------|-------------------|
| Design code | EN1992-1-1:2004 / 2014 Eurocode 2 | |
| Initial tendon force | 1350,0 | kN |
| Tendon area | 1110,0 | mm ² |
| Modulus of elasticity for tendon | 200000000,0 | kN/m ² |
| Concrete stress at transfer | 10000,0 | kN/m ² |
| Jacking | Jacking at end 2 | None |
| Slip at end 2 | 0,004 | m |
| Jack angle at end 2 | 0,0 | deg |
| Instantaneous losses | Value | Units |
| Modulus of elasticity of concrete at transfer | 34000000,0 | kN/m ² |
| Unintentional angular displacement | 0,003 | rad/m |
| Duct friction coefficient | 0,25 | |

Tendon Profile (original input) - Kabel KG 14

| Segment type | X | Y | Z |
|------------------|------|-----|------|
| Start | 18,0 | 0,0 | -0,1 |
| Spline | 20,0 | 0,0 | -0,3 |
| Spline Continued | 21,4 | 0,0 | -0,3 |
| Spline Continued | 22,9 | 0,0 | -0,2 |
| Spline Continued | 24,9 | 0,0 | 0,0 |

Minimum radius = 0,0

Smoothing type: Cut corner

Prestress Losses - Kabel KG 14

| Distance along profile | Friction & Wobble | Anchorage | Long Term Losses | Force |
|------------------------|-------------------|-----------|------------------|--------|
| 0,0 | 49,7 | 10,0 | 0,0 | 1290,3 |
| 1,3 | 43,9 | 71,6 | 0,0 | 1234,5 |
| 2,6 | 30,8 | 127,8 | 0,0 | 1191,4 |
| 4,0 | 21,1 | 147,1 | 0,0 | 1181,8 |
| 5,3 | 5,5 | 178,3 | 0,0 | 1166,2 |
| 6,6 | 0,3 | 188,8 | 0,0 | 1160,9 |
| 6,9 | 0,0 | 189,4 | 0,0 | 1160,6 |

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Tendon profile (sampling points) - Kabel KG 14 assignment 1

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 42,9 | 3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 44,2 | 3,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 45,5 | 3,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 46,8 | 3,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 48,2 | 3,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 49,5 | 3,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 49,8 | 3,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 14 assignment 2

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 42,9 | -0,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 44,2 | -0,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 45,5 | -0,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 46,8 | -0,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 48,2 | -0,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 49,5 | -0,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 49,8 | -0,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 14 assignment 3

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 42,9 | -3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 44,2 | -3,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 45,5 | -3,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 46,8 | -3,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 48,2 | -3,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 49,5 | -3,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 49,8 | -3,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 14 assignment 4

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|-----|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 18,0 | 3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 19,3 | 3,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 20,6 | 3,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 21,9 | 3,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 23,3 | 3,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 24,6 | 3,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 24,9 | 3,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 14 assignment 5

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 18,0 | -0,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 19,3 | -0,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 20,6 | -0,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 21,9 | -0,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 23,3 | -0,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 24,6 | -0,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 24,9 | -0,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

Tendon profile (sampling points) - Kabel KG 14 assignment 6

| X | Y | Z | Distance along profile | Angle change in profile | Eccentricity from beam in y | Eccentricity from beam in z |
|------|------|------|------------------------|-------------------------|-----------------------------|-----------------------------|
| 18,0 | -3,5 | -0,1 | 0,0 | 0,0 | 0,0 | -0,1 |
| 19,3 | -3,5 | -0,2 | 1,3 | 5,3 | 0,0 | -0,2 |
| 20,6 | -3,5 | -0,3 | 2,6 | 4,7 | 0,0 | -0,3 |
| 21,9 | -3,5 | -0,3 | 4,0 | 1,4 | 0,0 | -0,3 |
| 23,3 | -3,5 | -0,2 | 5,3 | 2,4 | 0,0 | -0,2 |
| 24,6 | -3,5 | -0,1 | 6,6 | 0,7 | 0,0 | -0,1 |
| 24,9 | -3,5 | 0,0 | 6,9 | 0,0 | 0,0 | 0,0 |

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15. Direct Method Influence

Attribute: 1 Title: Inf1 - Beam (Fz)

Sub Type = Direct method influence

Assignment to Lines:

1014T1017;1024T1027;1034T1037;1044T1047;1054T1057;1064T1067;1084T1087;1094T1097;1104T1107;1114T1117;1124T1127;1134T1137;1144T1147;1154T1157;1164T1167;1174T1177;1184T1187;1194T1197;1204T1207;1214T1217;1224T1227;1234T1237;1244T1247;1254T1257;1264T1267;1274T1277;1284T1287;1294T1297;1304T1307;1314T1317;1324T1327;1334T1337;1344T1347;1354T1357;1364T1367;1374T1377;1384T1387;1394T1397;1404T1407;1414T1417;1424T1427;1434T1437;1444T1447;1454T1457;1464T1467;1474T1477;1484T1487;1494T1497;1504T1507;1514T1517;1524T1527;1534T1537;1544T1547;1554T1557;1564T1567;1574T1577;1584T1587;1594T1597;1604T1607;1614T1617;1624T1627;1634T1637;1644;1647;1654T1657;1664T1667;1774T1777;1784T1787;1794T1797;1804T1807;1814T1817;1824T1827;1834T1837;2084T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;38865T38905I10;38956;38966

Attribute: 2 Title: Inf2 - Beam (My)

Sub Type = Direct method influence

Assignment to Lines:

1014T1017;1024T1027;1034T1037;1044T1047;1054T1057;1064T1067;1084T1087;1094T1097;1104T1107;1114T1117;1124T1127;1134T1137;1144T1147;1154T1157;1164T1167;1174T1177;1184T1187;1194T1197;1204T1207;1214T1217;1224T1227;1234T1237;1244T1247;1254T1257;1264T1267;1274T1277;1284T1287;1294T1297;1304T1307;1314T1317;1324T1327;1334T1337;1344T1347;1354T1357;1364T1367;1374T1377;1384T1387;1394T1397;1404T1407;1414T1417;1424T1427;1434T1437;1444T1447;1454T1457;1464T1467;1474T1477;1484T1487;1494T1497;1504T1507;1514T1517;1524T1527;1534T1537;1544T1547;1554T1557;1564T1567;1574T1577;1584T1587;1594T1597;1604T1607;1614T1617;1624T1627;1634T1637;1644;1647;1654T1657;1664T1667;1774T1777;1784T1787;1794T1797;1804T1807;1814T1817;1824T1827;1834T1837;2084T2124I10;2145T2215I10;2216T2306I10;2307T2397I10;38865T38905I10;38956;38966

Attribute: 3 Title: Inf3 - Reaction (FZ)

Sub Type = Direct method influence

Assignment to Points:

1100T1102;1200T1202;1300T1700I100;1701;1702;1800T1802;1900T1902

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 138 |
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16. VLO Analysis

Type: VLO – EG A1 ~ Characteristic

Representative values : Characteristic

Design code : EN 1991-2 Sweden 2011

Load groups : Complementary load modell

Dynamic amplification : 0 %

Load model value A : 180 kN

Load model value B : 300 kN

Load modell valute q : 5 kN/m

Lane vehicle factor most onerous lane : 1.0

Lane vehicle factor second lane : 0.8

Type vehicles : a

Longitudinal increment : 0.25 m

Transverse increment : 0.25 m

Vehicule direction : Both

Kerbs : L3010, L3011

Minimum width vehicule : 1.7 m

Maximum width vehicle : 2.3 m

Influence attributes :

Inf 1: Beam Fz

Inf 2: Beam My

Inf 3: Reation FZ

Type: VLO – EG A2 ~ Characteristic

Representative values : Characteristic

Design code : EN 1991-2 Sweden 2011

Load groups : Complementary load modell

Dynamic amplification : 0 %

Load model value A : 180 kN

Load model value B : 300 kN

Load modell valute q : 5 kN/m

Lane vehicle factor most onerous lane : 1.0

Lane vehicle factor second lane : 0.8

Type vehicles : a

Longitudinal increment : 0.25 m

Transverse increment : 0.25

Vehicule direction : Both

Kerbs : L3020,L3021

Minimum width vehicule : 1.7 m

Maximum width vehicle : 2.3 m

Influence attributes :

Inf 1: Beam Fz

Inf 2: Beam My

Inf 3: Reation FZ

I samband med intern kontroll önskades förtydligande om varför "Lane vehicle second lane: 0.8" tillämpas för färd i bromitt. Förklaringen är att programmet förutsätter alltid detta. För att inte detta lastfält skall beaktas är tillänglig farbana begränsad till 3 m så att dett int sker.

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 139 |
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Type: VLO – EG A3 ~ Characteristic

Representative values : Charateristic

Design code : EN 1991-2 Sweden 2011

Load groups : Complementary load modell

Dynamic amplification : 0 %

Load model value A : 180 kN

Load model value B : 300 kN

Load modell valute q : 5 kN/m

Lane vehicule factor most onerous lane : 1.0

Lane vehicule factor second lane : 0.8

Type vehicules : a

Longitudinal increment : 0.25 m

Transverse increment : 0.25

Vehicule direction : Both

Kerbs : L3030,L3031

Minimum width vehicule : 1.7 m

Maximum width vehicle : 2.3 m

Influence attributes :

Inf 1: Beam Fz

Inf 2: Beam My

Inf 3: Reation FZ

Type: VLO – EG B1 ~ Characteristic

Representative values : Charateristic

Design code : EN 1991-2 Sweden 2011

Load groups : Complementary load modell

Dynamic amplification : 0 %

Load model value A : 180 kN

Load model value B : 300 kN

Load modell valute q : 5 kN/m

Lane vehicule factor most onerous lane : 1.0

Lane vehicule factor second lane : 0.8

Type vehicules : b, c, d, e, f, g,h,I,j,k,l,m,n,o

Longitudinal increment : 0.25 m

Transverse increment : 0.25

Vehicule direction : Both

Kerbs : L3010, L3011

Minimum width vehicule : 1.7 m

Maximum width vehicle : 2.3 m

Influence attributes :

Inf 1: Beam Fz

Inf 2: Beam My

Inf 3: Reation FZ

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 140 |
| | | Date : | Created : |

Type: VLO – EG B2 ~ Characteristic
Representative values : Charateristic
Design code : EN 1991-2 Sweden 2011
Load groups : Complementary load modell
Dynamic amplification : 0 %
Load model value A : 180 kN
Load model value B : 300 kN
Load modell valute q : 5 kN/m
Lane vehicule factor most onerous lane : 1.0
Lane vehicule factor second lane : 0.8
Type vehicules : b, c, d, e, f, g,h,I,j,k,l,m,n,o
Longitudinal increment : 0.25 m
Transverse increment : 0.25
Vehicule direction : Both
Kerbs : L3020, L3021
Minimum width vehicule : 1.7 m
Maximum width vehicle : 2.3 m
Influence attributes :
 Inf 1: Beam Fz
 Inf 2: Beam My
 Inf 3: Reation FZ

Type: VLO – EG B3 ~ Characteristic
Representative values : Charateristic
Design code : EN 1991-2 Sweden 2011
Load groups : Complementary load modell
Dynamic amplification : 0 %
Load model value A : 180 kN
Load model value B : 300 kN
Load modell valute q : 5 kN/m
Lane vehicule factor most onerous lane : 1.0
Lane vehicule factor second lane : 0
Type vehicules : b, c, d, e, f, g,h,I,j,k,l,m,n,o
Longitudinal increment : 0.25 m
Transverse increment : 0.25
Vehicule direction : Both
Kerbs : L3030, L3031
Minimum width vehicule : 1.7 m
Maximum width vehicle : 2.3 m
Influence attributes :
 Inf 1: Beam Fz
 Inf 2: Beam My
 Inf 3: Reation FZ

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 141 |
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17. Basic combination

Loadcase ID: 15070 Title: EGEN

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|--------|
| File | Factor | Title | Type |
| 47834 | 0 | 0,47 | EGEN-C |
| 47835 | 0 | 0,53 | EGEN-E |

Loadcase ID: 37497 Title: PT-T0C

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|-------|
| File | Factor | Title | Type |
| 15071 | 0 | 1,0 | KG 1 |
| 15072 | 0 | 1,0 | KG 2 |
| 15073 | 0 | 1,0 | KG 3 |
| 15074 | 0 | 1,0 | KG 4 |
| 15075 | 0 | 1,0 | KG 5 |
| 15076 | 0 | 1,0 | KG 6 |
| 15077 | 0 | 1,0 | KG 7 |
| 15078 | 0 | 1,0 | KG 8 |
| 15079 | 0 | 1,0 | KG 9 |
| 15080 | 0 | 1,0 | KG 10 |
| 15081 | 0 | 1,0 | KG 11 |
| 15082 | 0 | 1,0 | KG 12 |
| 15083 | 0 | 1,0 | KG 13 |
| 15084 | 0 | 1,0 | KG 14 |

Loadcase ID: 47832 Title: PT-T0E

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|-------|
| File | Factor | Title | Type |
| 47816 | 0 | 1,0 | KG 1 |
| 47818 | 0 | 1,0 | KG 2 |
| 47805 | 0 | 1,0 | KG 3 |
| 47828 | 0 | 1,0 | KG 4 |
| 47830 | 0 | 1,0 | KG 5 |
| 47817 | 0 | 1,0 | KG 6 |
| 47821 | 0 | 1,0 | KG 7 |
| 47826 | 0 | 1,0 | KG 8 |
| 47831 | 0 | 1,0 | KG 9 |
| 47819 | 0 | 1,0 | KG 10 |
| 47823 | 0 | 1,0 | KG 11 |
| 47822 | 0 | 1,0 | KG 12 |
| 47824 | 0 | 1,0 | KG 13 |
| 47825 | 0 | 1,0 | KG 14 |

Loadcase ID: 47833 Title: PT-T0

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|--------|
| File | Factor | Title | Type |
| 37497 | 0 | 0,47 | PT-T0C |
| 47832 | 0 | 0,53 | PT-T0E |

| | | | |
|--|---|----------|--------------|
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Loadcase ID: 47834 Title: EGEN-C

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|--------|
| File | Factor | Title | Type |
| 2 | 0 | 1,0 | EGEN 1 |
| 3 | 0 | 1,0 | EGEN 2 |
| 4 | 0 | 1,0 | EGEN 3 |

Loadcase ID: 47835 Title: EGEN-E

Sub Type: Basic Combination

| Loadcase | Results | | |
|----------|---------|-------|----------|
| File | Factor | Title | Type |
| 47812 | 0 | 1,0 | EGEN 1-1 |
| 47813 | 0 | 1,0 | EGEN 2-1 |
| 47814 | 0 | 1,0 | EGEN 3-1 |
| 47790 | 0 | 1,0 | EGEN 1-2 |
| 47800 | 0 | 1,0 | EGEN 2-2 |
| 47815 | 0 | 1,0 | EGEN 3-2 |
| 47795 | 0 | 1,0 | EGEN 1-3 |
| 47801 | 0 | 1,0 | EGEN 2-3 |
| 47808 | 0 | 1,0 | EGEN 3-3 |
| 47794 | 0 | 1,0 | EGEN 1-4 |
| 47802 | 0 | 1,0 | EGEN 2-4 |
| 47820 | 0 | 1,0 | EGEN 3-4 |
| 47796 | 0 | 1,0 | EGEN 1-5 |
| 47803 | 0 | 1,0 | EGEN 2-5 |
| 47804 | 0 | 1,0 | EGEN 3-5 |
| 47797 | 0 | 1,0 | EGEN 1-6 |
| 47806 | 0 | 1,0 | EGEN 2-6 |
| 47825 | 0 | 1,0 | EGEN 3-6 |
| 47798 | 0 | 1,0 | EGEN 1-7 |
| 47807 | 0 | 1,0 | EGEN 2-7 |
| 47827 | 0 | 1,0 | EGEN 3-7 |
| 47799 | 0 | 1,0 | EGEN 1-8 |
| 47810 | 0 | 1,0 | EGEN 2-8 |
| 47829 | 0 | 1,0 | EGEN 3-8 |

| | | | |
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| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 143 |
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18. Smart combination

Loadcase ID: 15066 Title: Lk A - VAR_F

Sub Type: Smart Combination

Loadcases to consider: 1

Variable Loadcases: 1

| Loadcase | Results | | | |
|----------|-----------|------|-----|-------------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15084 | 0 | 0,0 | 1,5 | EG AF (Max) |
| 15085 | 0 | 0,0 | 1,5 | EG AF (Min) |
| 15086 | 0 | 0,0 | 1,5 | EG BF (Max) |
| 15087 | 0 | 0,0 | 1,5 | EG BF (Min) |

Loadcase ID: 15068 Title: Lk A - PERM

Sub Type: Smart Combination

Loadcases to consider: All

Variable Loadcases: All

| Loadcase | Results | | | |
|----------|-----------|------|-----|--------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15070 | 0 | 1,2 | 0,0 | EGEN |
| 5 | 0 | 1,2 | 0,0 | BELAGG |

Loadcase ID: 37487 Title: Lk A - VAR_M

Sub Type: Smart Combination

Loadcases to consider: 1

Variable Loadcases: 1

| Loadcase | Results | | | |
|----------|-----------|------|-----|-------------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15088 | 0 | 0,0 | 1,5 | EG AM (Max) |
| 15089 | 0 | 0,0 | 1,5 | EG AM (Min) |
| 15090 | 0 | 0,0 | 1,5 | EG BM (Max) |
| 15091 | 0 | 0,0 | 1,5 | EG BM (Min) |

Loadcase ID: 37489 Title: Lk Ba - PERM

Sub Type: Smart Combination

Loadcases to consider: All

Variable Loadcases: All

| Loadcase | Results | | | |
|----------|-----------|------|-----|--------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15070 | 0 | 1,0 | 0,0 | EGEN |
| 5 | 0 | 1,0 | 0,0 | BELAGG |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 144 |
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Loadcase ID: 37491 Title: Lk Bb

Sub Type: Smart Combination

Loadcases to consider: All

Variable Loadcases: All

| Loadcase | Results | | | |
|----------|-----------|------|-----|--------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15070 | 0 | 1,0 | 0,0 | EGEN |
| 5 | 0 | 1,0 | 0,0 | BELAGG |

Loadcase ID: 37493 Title: Lk Ba - VAR_F

Sub Type: Smart Combination

Loadcases to consider: 1

Variable Loadcases: 1

| Loadcase | Results | | | |
|----------|-----------|------|-----|-------------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15084 | 0 | 0,0 | 1,0 | EG AF (Max) |
| 15085 | 0 | 0,0 | 1,0 | EG AF (Min) |
| 15086 | 0 | 0,0 | 1,0 | EG BF (Max) |
| 15087 | 0 | 0,0 | 1,0 | EG BF (Min) |

Loadcase ID: 37495 Title: Lk Ba - VAR_M

Sub Type: Smart Combination

Loadcases to consider: 1

Variable Loadcases: 1

| Loadcase | Results | | | |
|----------|-----------|------|-----|-------------|
| File | Permanent | | | |
| Factor | Variable | | | |
| Factor | Title | Type | | |
| 15088 | 0 | 0,0 | 1,0 | EG AM (Max) |
| 15089 | 0 | 0,0 | 1,0 | EG AM (Min) |
| 15090 | 0 | 0,0 | 1,0 | EG BM (Max) |
| 15091 | 0 | 0,0 | 1,0 | EG BM (Min) |

| | | | |
|--|---|----------|--------------|
| | Appendix 1: Input receipt SYSTEM 001 Pretensioned slab bridge: hollow deck | Status : | Page: 145 |
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19. Envelopes

Loadcase ID: 15084 Title: EG AF

Sub Type: Envelope

| Loadcase | Results | |
|----------|---------|------------------------------------|
| File | Title | Type |
| 38199 | 0 | VLO - EG A1 ~ Characteristic (Max) |
| 38200 | 0 | VLO - EG A1 ~ Characteristic (Min) |

Loadcase ID: 15086 Title: EG BF

Sub Type: Envelope

| Loadcase | Results | |
|----------|---------|------------------------------------|
| File | Title | Type |
| 40972 | 0 | VLO - EG B1 ~ Characteristic (Max) |
| 40973 | 0 | VLO - EG B1 ~ Characteristic (Min) |

Loadcase ID: 15088 Title: EG AM

Sub Type: Envelope

| Loadcase | Results | |
|----------|---------|------------------------------------|
| File | Title | Type |
| 42332 | 0 | VLO - EG A2 ~ Characteristic (Max) |
| 42333 | 0 | VLO - EG A2 ~ Characteristic (Min) |
| 45052 | 0 | VLO - EG A3 ~ Characteristic (Max) |
| 45053 | 0 | VLO - EG A3 ~ Characteristic (Min) |

Loadcase ID: 15090 Title: EG BM

Sub Type: Envelope

| Loadcase | Results | |
|----------|---------|------------------------------------|
| File | Title | Type |
| 43692 | 0 | VLO - EG B2 ~ Characteristic (Max) |
| 43693 | 0 | VLO - EG B2 ~ Characteristic (Min) |
| 46412 | 0 | VLO - EG B3 ~ Characteristic (Max) |
| 46413 | 0 | VLO - EG B3 ~ Characteristic (Min) |