

Mini skråstagsbro bliver Hedehusenes nye vartegn

Præsentation af:
Daniel Kristoffersen, Projektchef COWI
Flemming Visbech, Projektleder JORTON

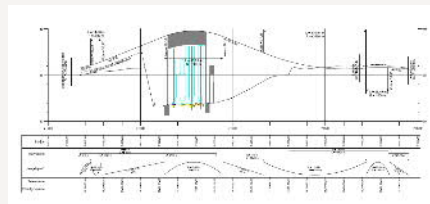
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Disposition

1. Opgavens formål
2. Fakta og tal
3. Projektets hovedforløb
4. Arkitekt visualisering
5. Detailprojektet
 1. Plan, snit og detaljer
 2. Betydende ledninger
 3. Jordbundsforhold / fundering
 4. Særlige detaljer
6. Udførelsen
 1. Logistik på byggepladsen
 2. Betonarbejder.
 3. Samling og montage af bro-sektioner.



Opgavens formål



Hedehusene by



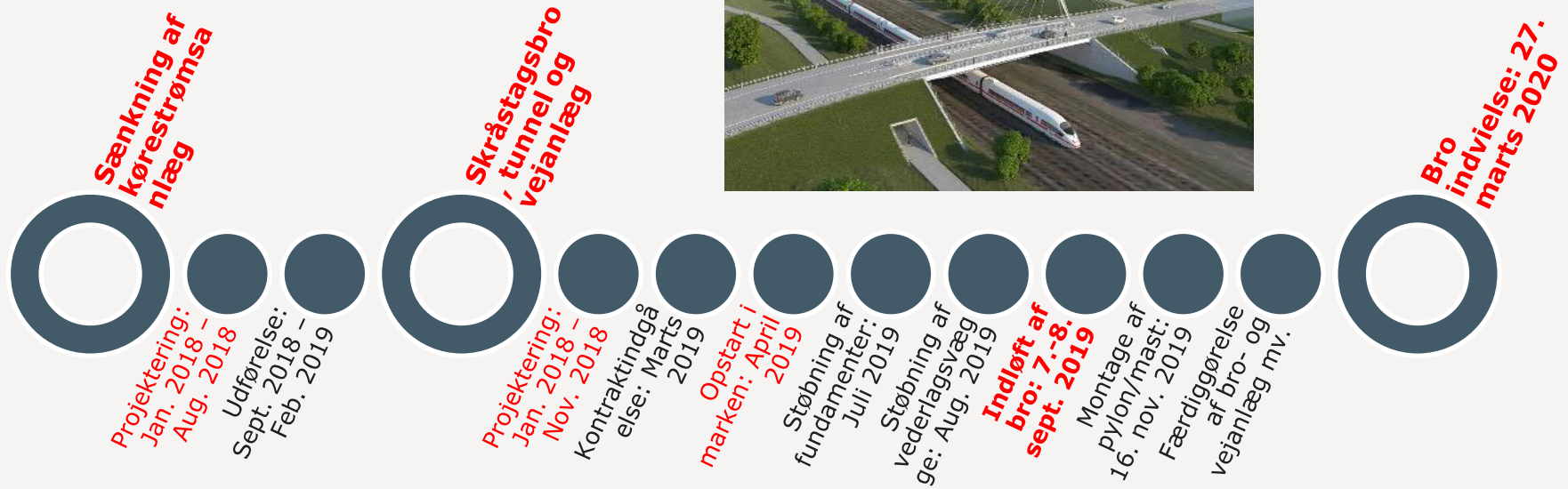
Ønske:
at "nedbryde" jernbanens barriere
ved at skabe direkte adgang fra
Hovedgaden via Hedevolden i
Hedehusene til den nye bydel,
NærHeden.

Fakta og tal

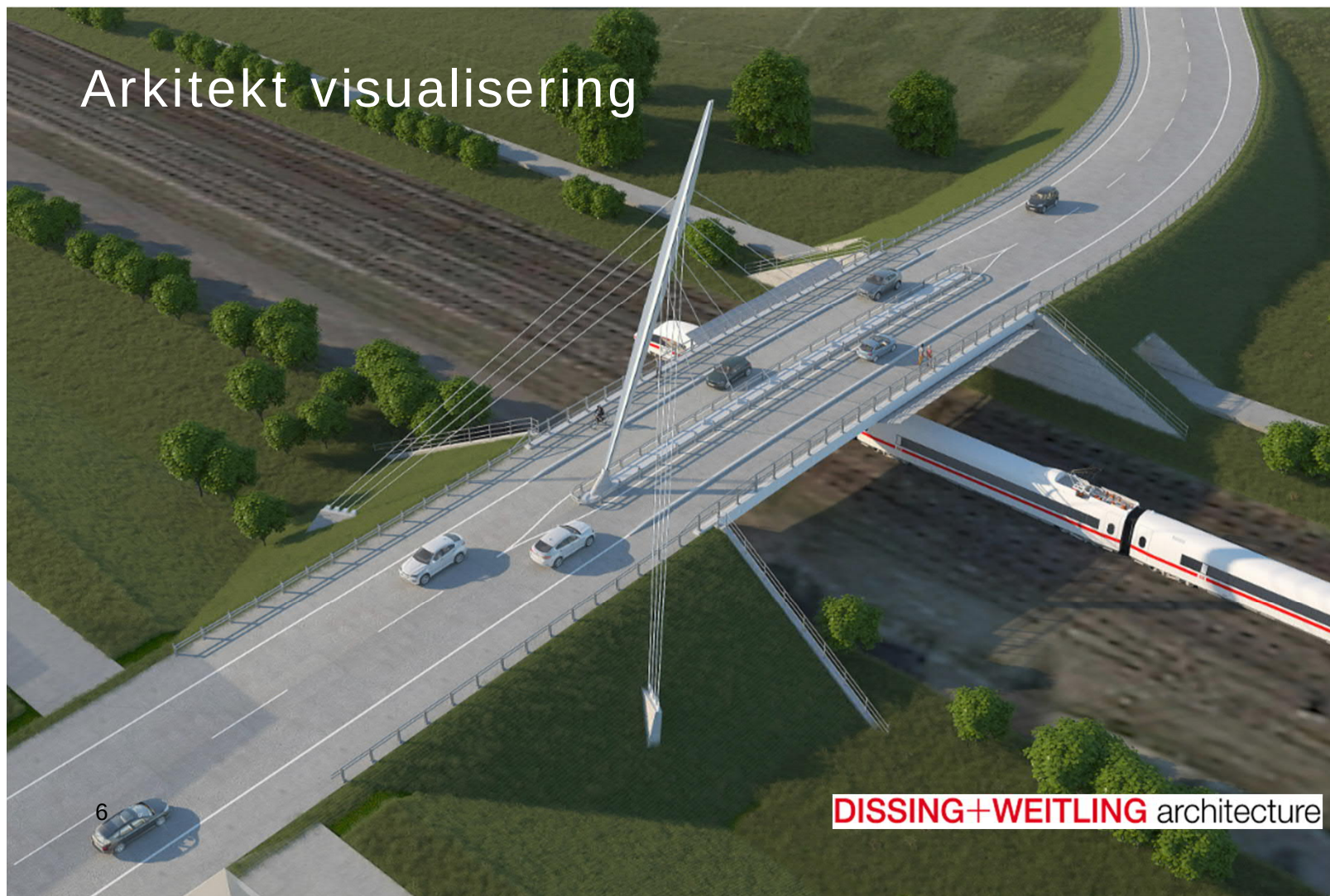
- › Bygherre: Høje-Taastrup kommune
 - › Bygherre: NærHeden P/S
 - › Bygherrerådgiver: COWI A/S
 - › Bygherrerådgiver: Dissing+Weitling architecture
 - › Hovedentreprenør: JORTON A/S
 - › Underentreprenører: MJ Eriksson A/S (Jord) og Valmont SM A/S (Stål)
-
- › Spændvidde: 42 meter
 - › Bredde: 17 meter
 - › 28 m høj stålpylon
 - › Stål: ca. 320t; Beton: ca. 2800m³
-
- › Konkurrenceform: Offentligt EU udbud – Økonomisk mest fordelagtige
 - › Kontraktsum ~66.5 mio. kr. ekskl. moms.



Projektets hovedforløb



Arkitekt visualisering



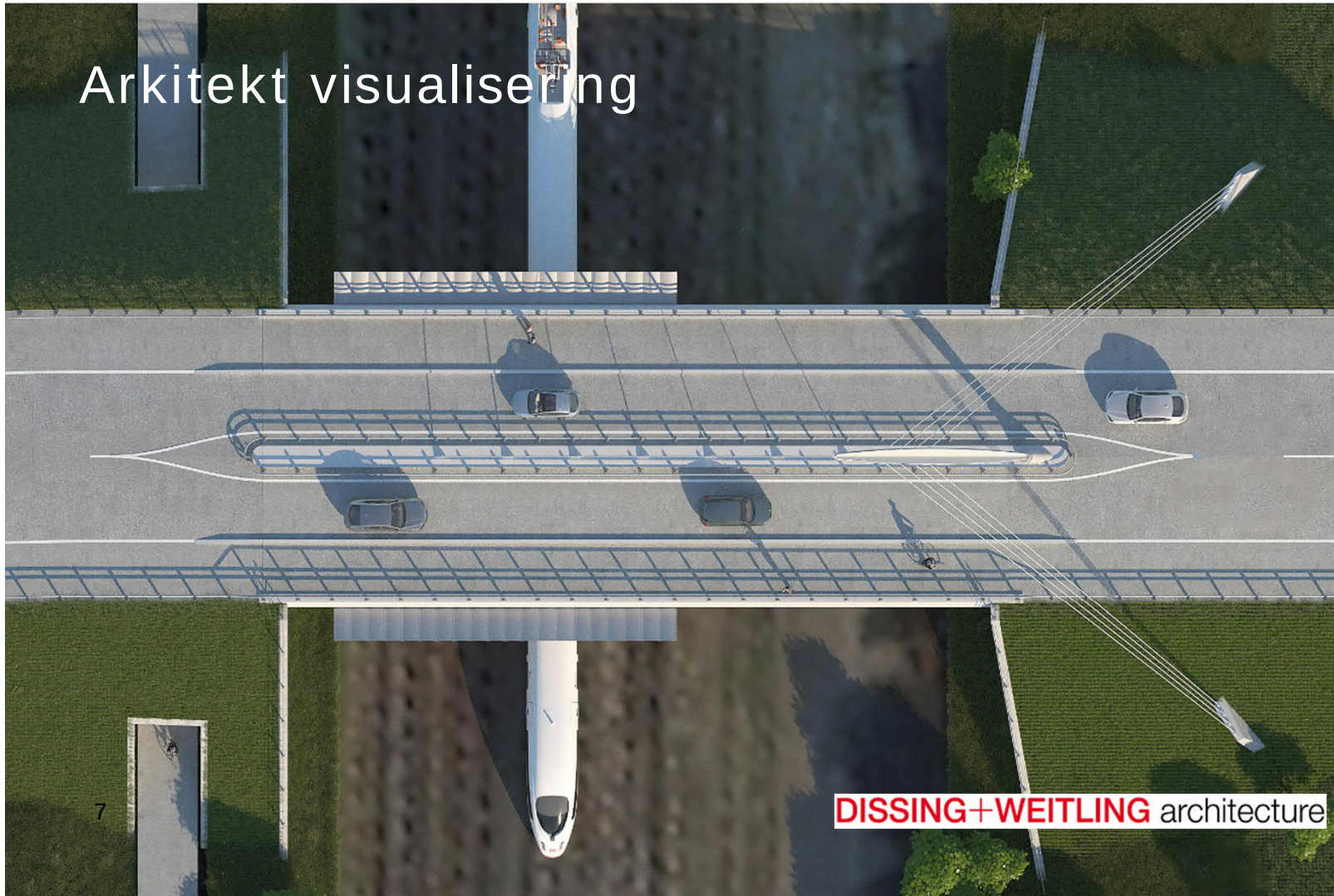
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Arkitekt visualisering



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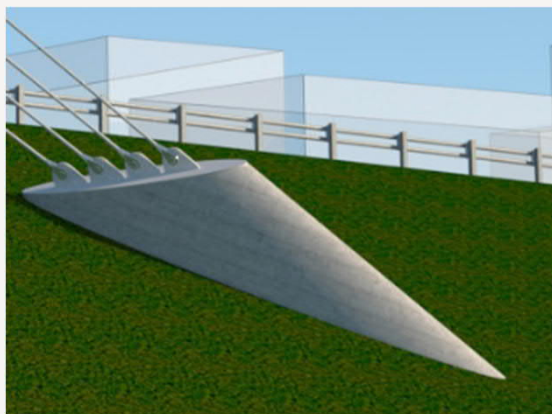
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Arkitekt detaljer

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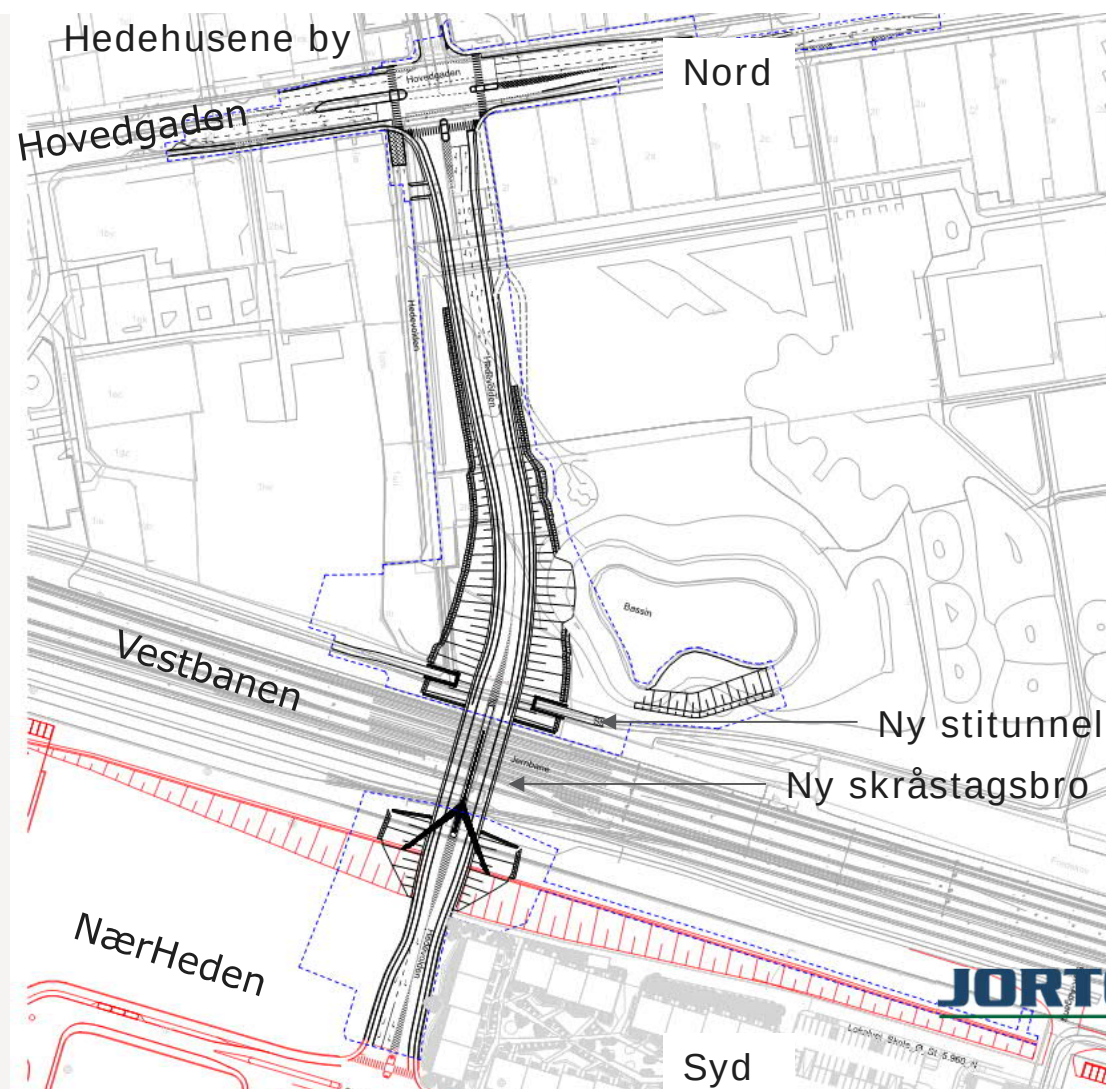


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21. DECEMBER 2019
PROJEKTPRESENTATION



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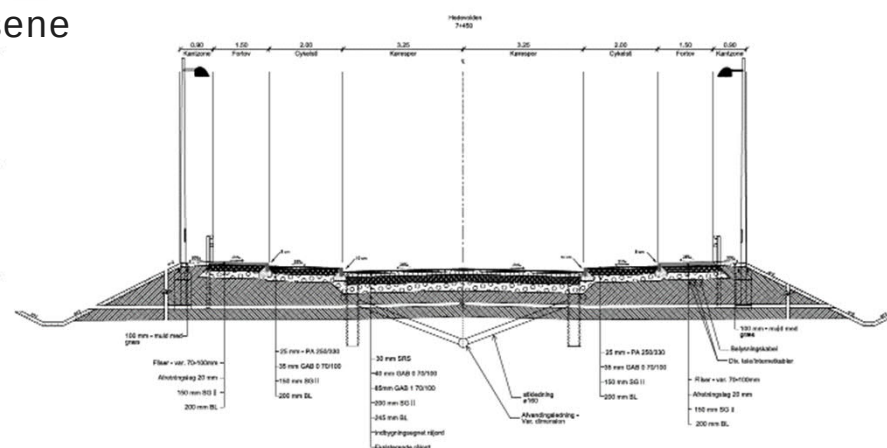
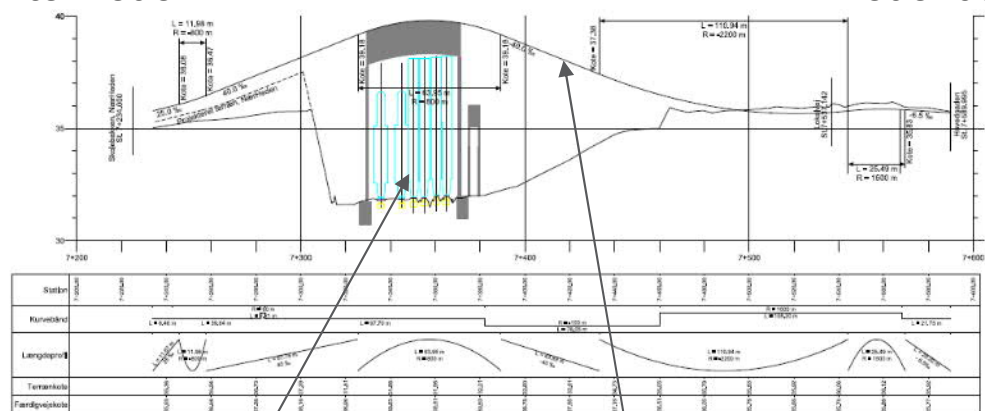
Entreprisen



Vej – Længde- og tværprofil - Hedeviden

NærHeden Hedehusene

Hedehusene

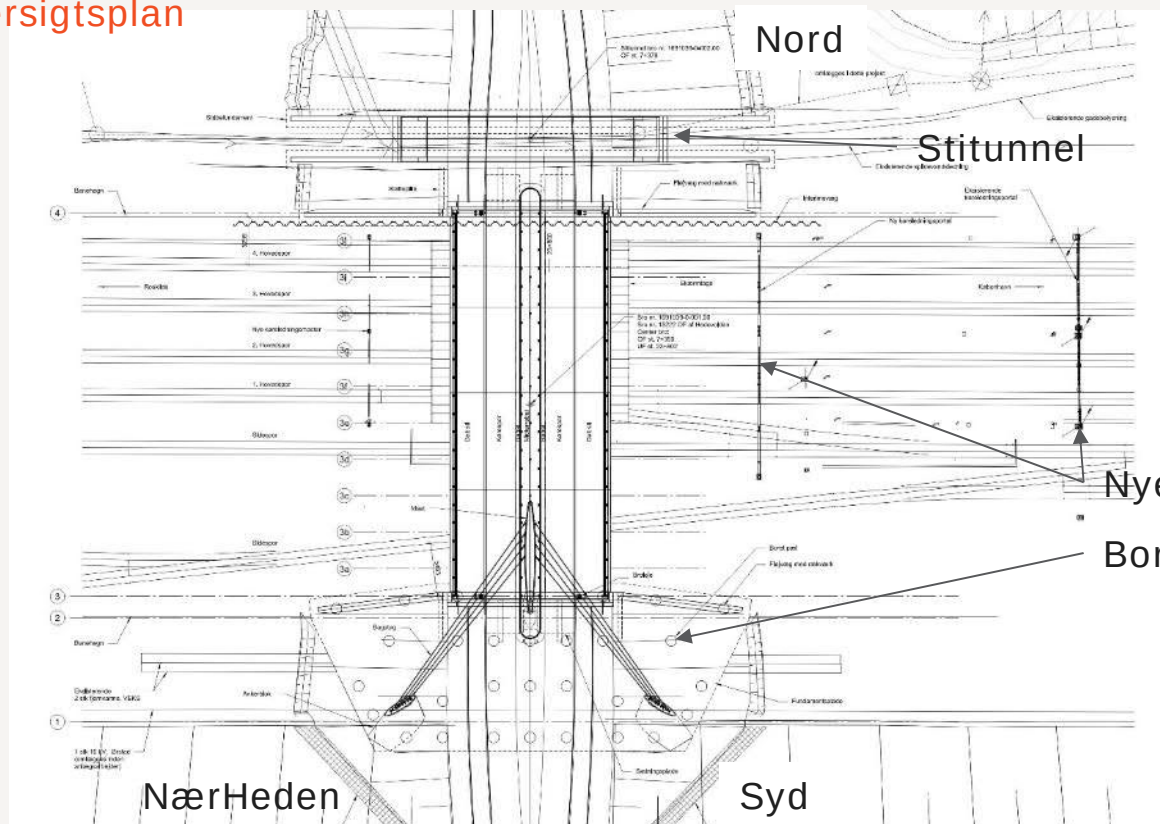


Fritrum for banen

Maks. 40 promille længdefald

Bro

Oversigtsplan



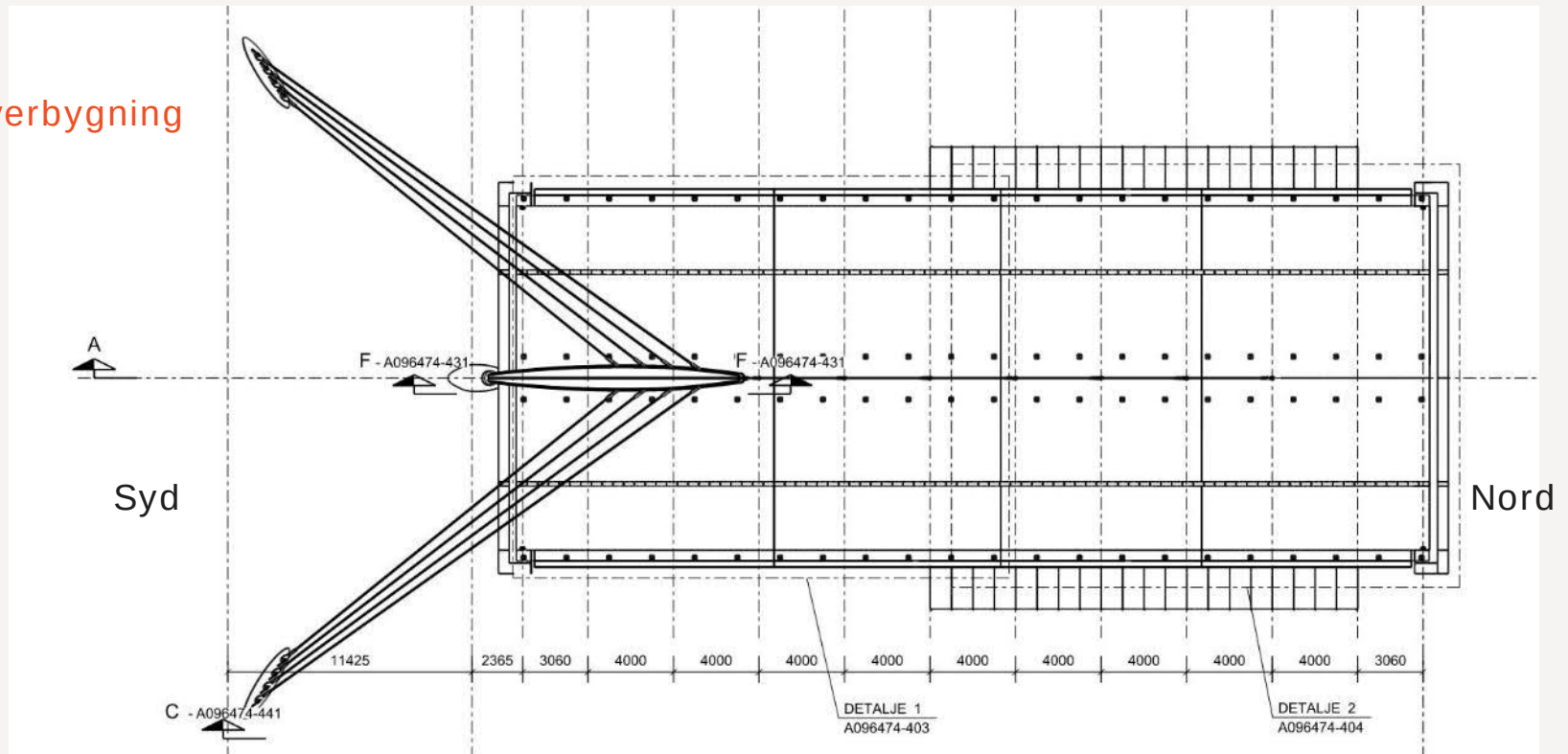
Dårlige jordbundsforhold

Nye kørestrømsportaler

Borede pæle

Bro

Plan Overbygning

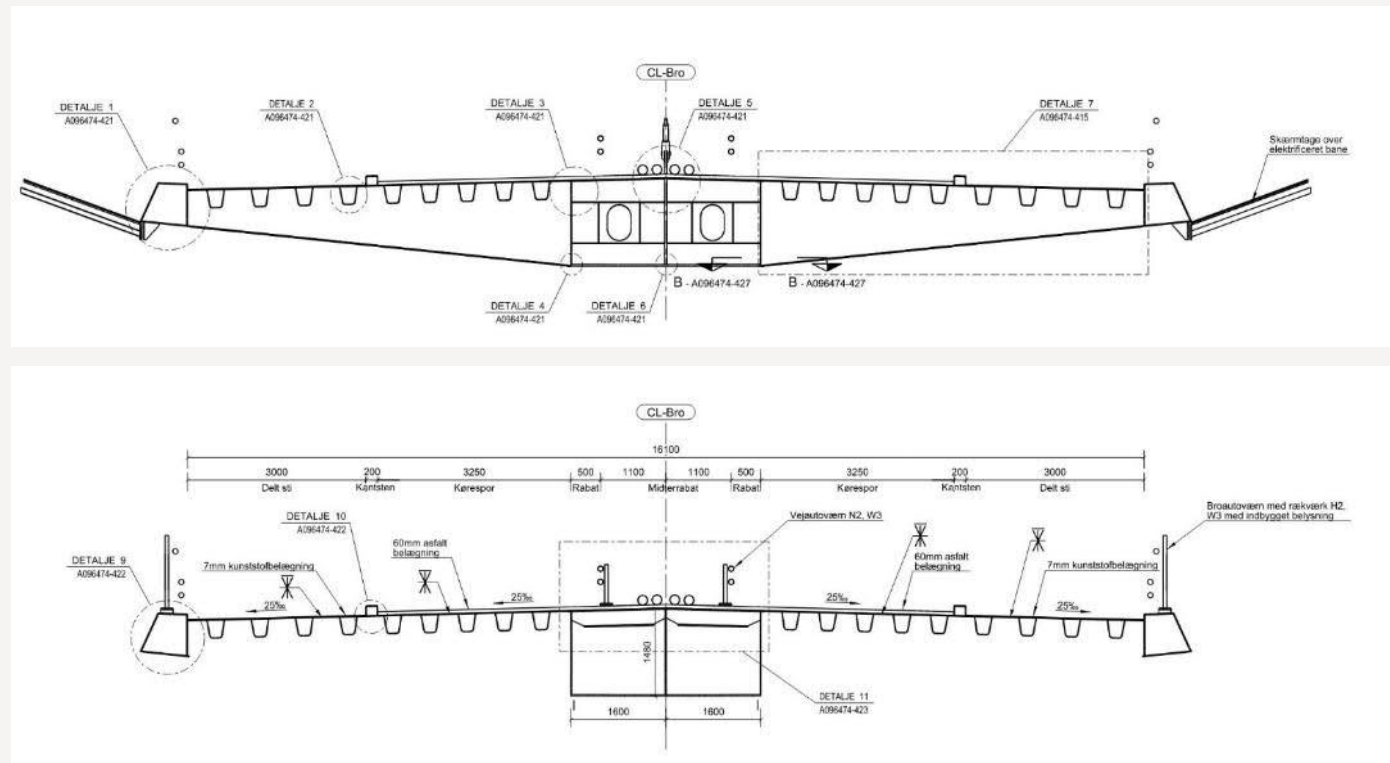


Længdesnit

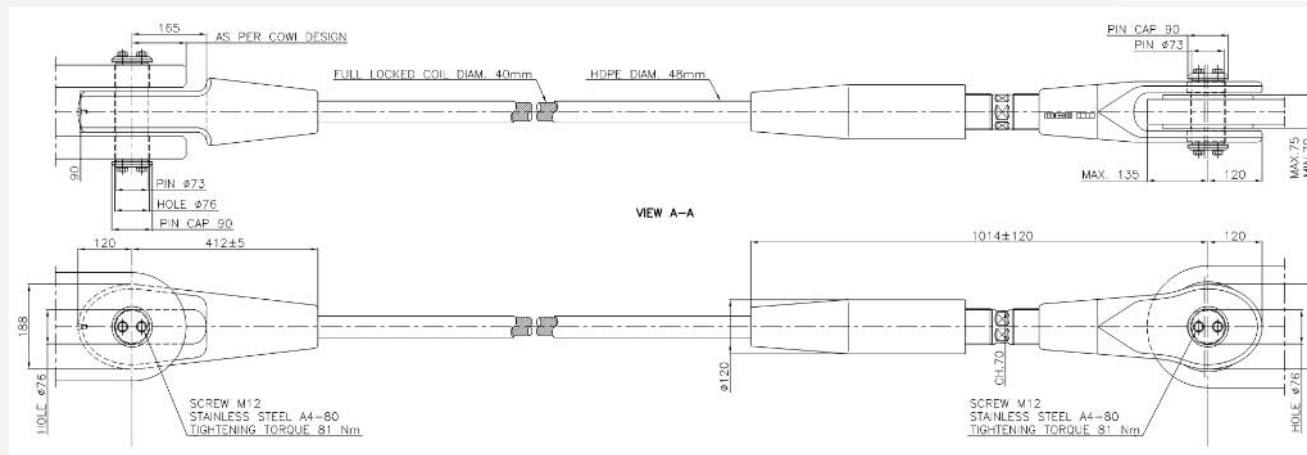
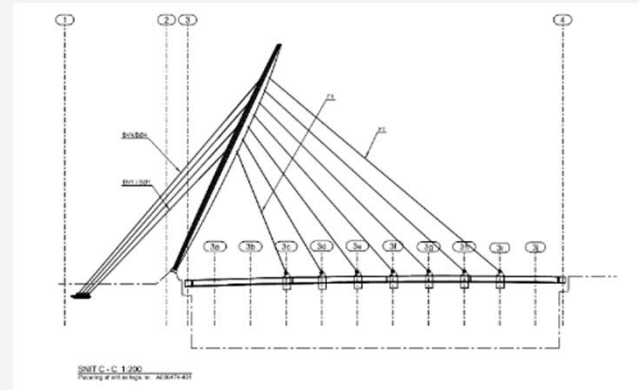


Bro

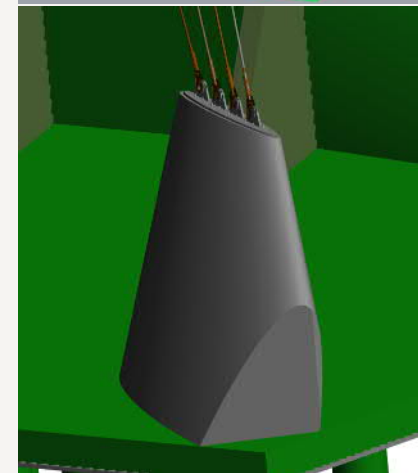
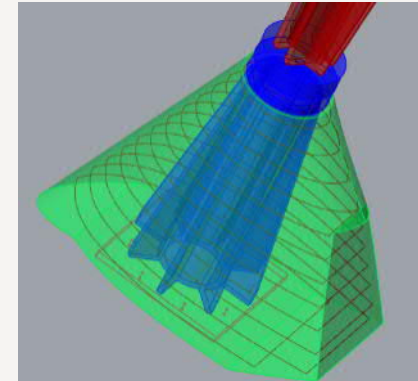
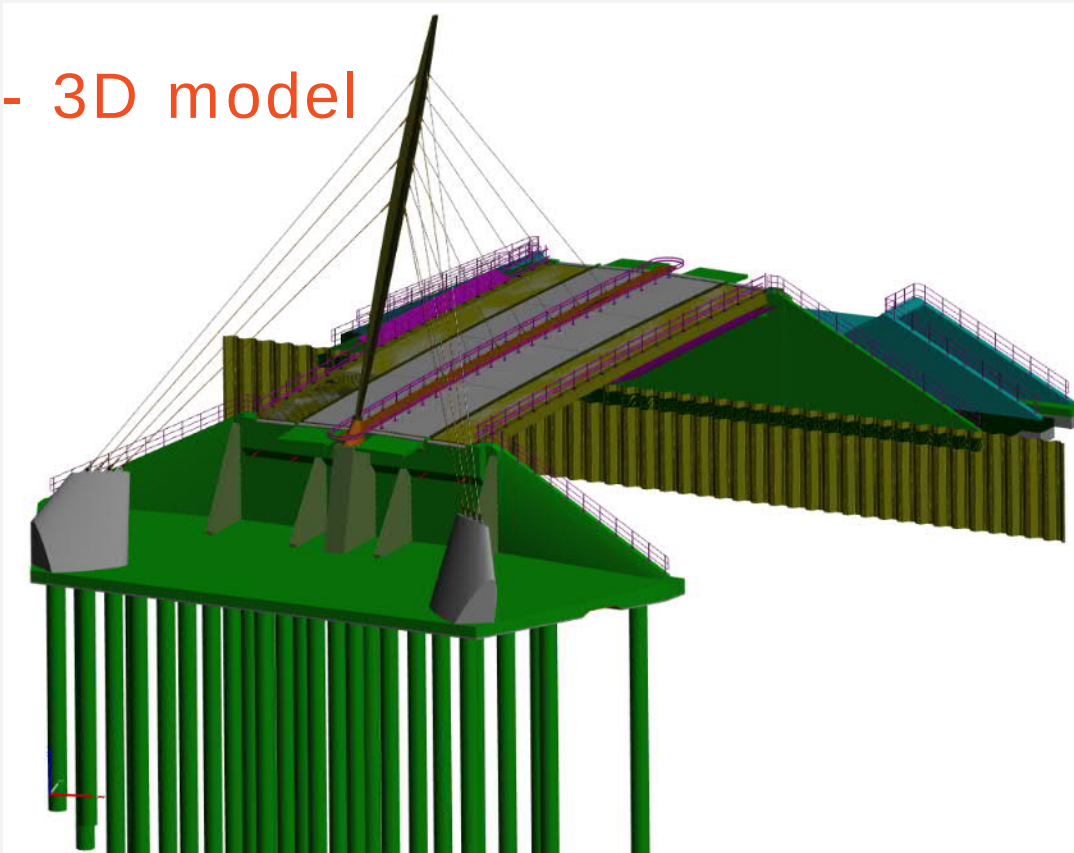
Tværsnit



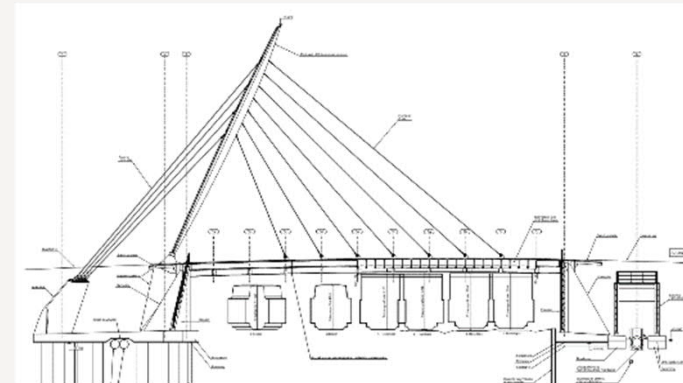
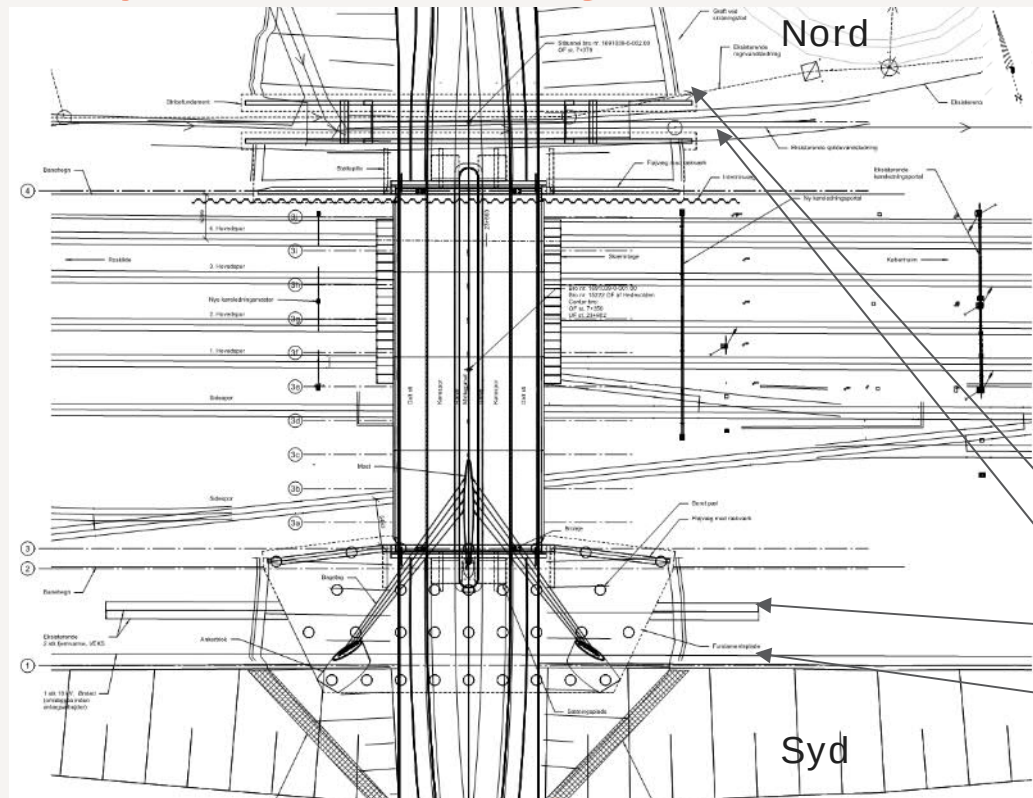
Stag og stagforankring



Bro - 3D model



Betydende ledninger



Nord for broen:

- HTK Fjernvarme, 2xØ300
- HTK Forsyning Ø1000 regnvandsledning

Syd for broen:

- VEKS fjernvarme, 2xØ700 rør => beskyttet med stålkappe
- Ørsted/Radius Elnet – 10kV => Er omlagt før entreprisestart

Udførelse

1. Logistik på byggepladsen
2. Betonarbejder
3. Samling og montage af brosektioner

Logistik på byggepladsen

Betonarbejde NORD

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Betonarbejde SYD









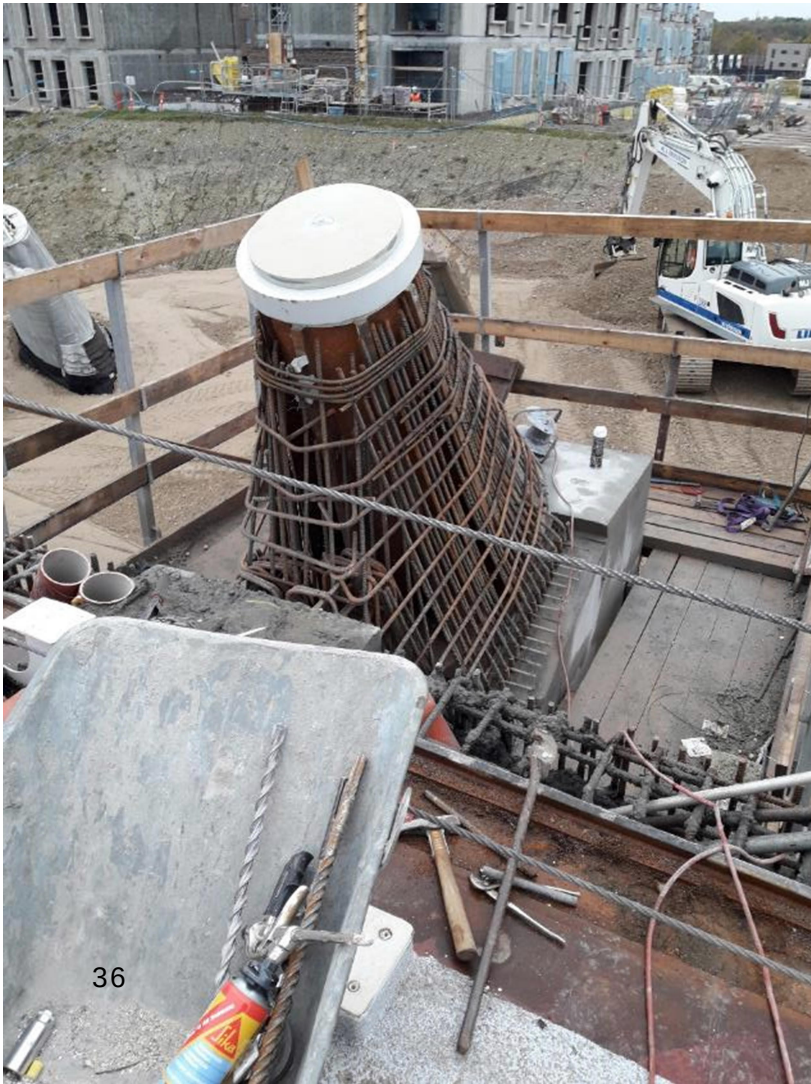












Samling og montage af brosektioner























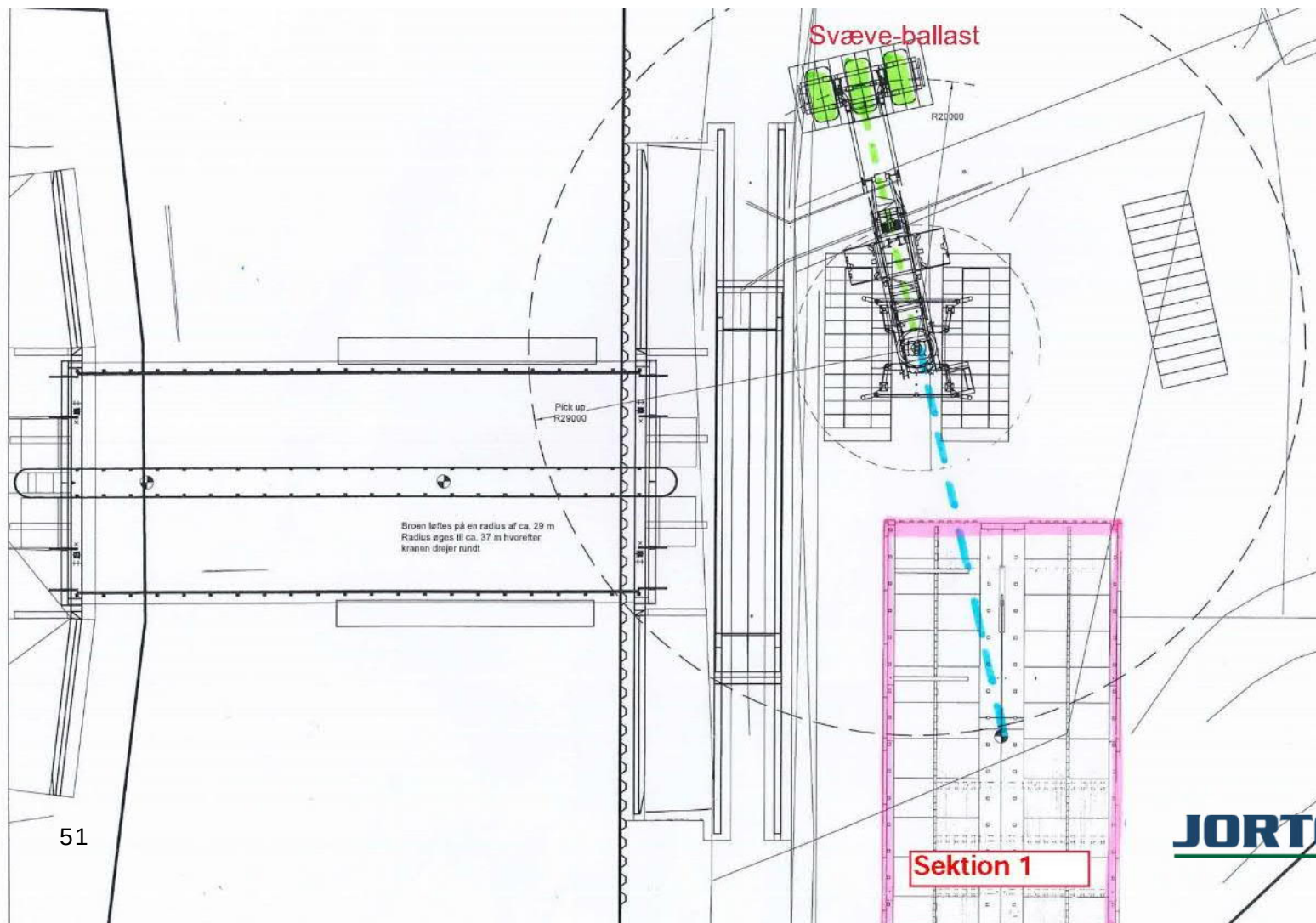




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lift, transport and rigging method.
7. Reference is made to BMS general rental terms at
www.bms.dk/#/rental-terms.

CRANE CONFIGURATION: LR 1750

Lifting configuration	SLDB - code 5235
Boom length	70.0 (m)
Boom angle	var (°)
Fly jib length	(m)
Fly jib angle	(°)
Crawler setup	L: 11.9 x W: 10.8 (m)
Crawler Mats	1 x 5 (m)
Carbody counterweight	45 (t)
Counterweight	170 (t)
Superlift counterweight	360 (t)
Superlift radius	20.0 (m)
Max. working radius	29.0 (m)
Capacity	255.1 (t)
Load weight	268.0 (t)
Block weight	9.0 (t)
Additional lifting equipment	(heise wire) ~ 4.9 (t)
Rigging	3.8 (t)
Total	225.7 (t)
Percentage of capacity	89 (%)
Max. characteristic Crawler Pressure	16 (t/m)



Max. allowable wind gust
10 m/s

Broløft sektion 1 Step 1

BMS

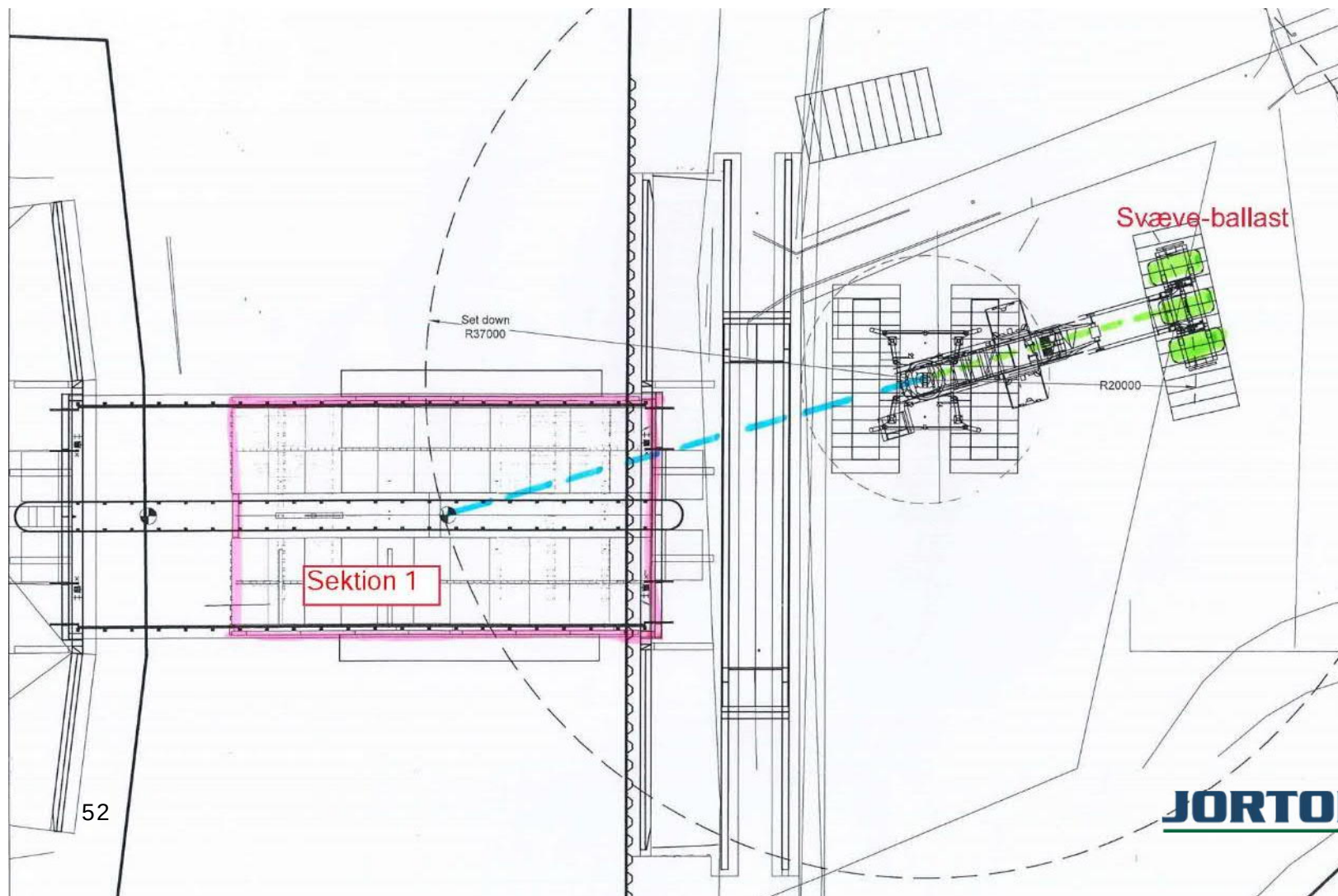
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Subject Hejs af brosektioner
Top view
Date 2018.06.11
Rev. date 2018.07.12
Original size A3
Scale 1:300
Initials KGR
Checked NL

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Sektion 1



equipment and machinery.
 6. The customer is responsible for the loads (incl. fixed lift points) ability to withstand the temporary forces during lift, transport and rigging method.
 7. Reference is made to BMS general rental terms at www.bms.dk/#/rental-terms.

CRANE CONFIGURATION: Li

Lifting configuration	SLDBW - code 5
Boom length	
Boom angle	
Fly jib length	
Fly jib angle	
Crawler setup	L: 11.9 x W: 1
Crawler Mats	
Carbody counterweight	
Counterweight	
Superlift counterweight	
Superlift radius	
Max. working radius	
Capacity	24
Load weight	21
Block weight	
Additional lifting equipment	(heise wire) -
Rigging	
Total	22
Percentage of capacity	
Max. characteristic Crawler Pressure	



Max. allowable wind gust
10 m/s

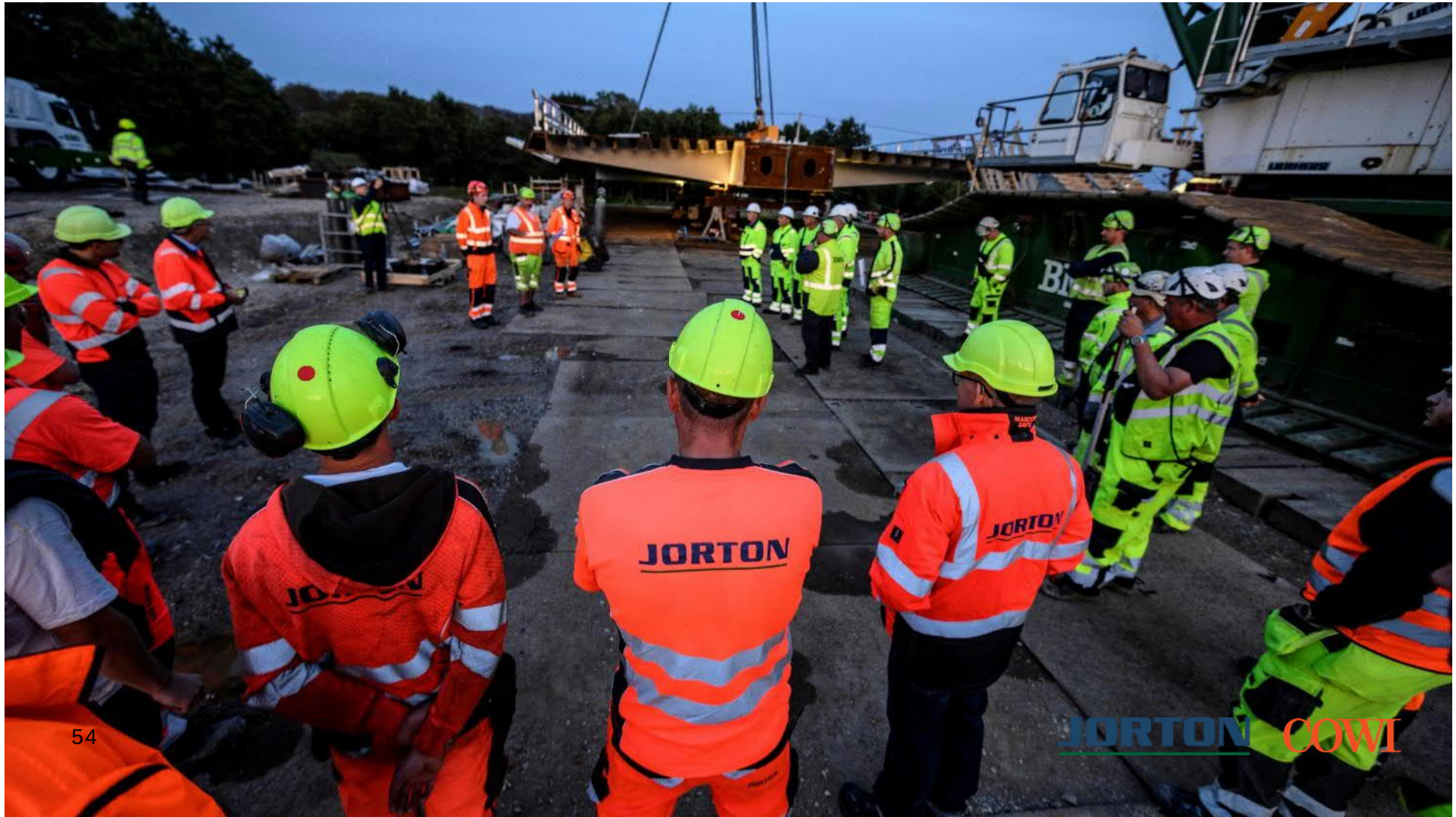
Broløft sektion 1
Step 2

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 Project Vejbro ved Nærheden
 Status: Made of knowledge Date: 2013



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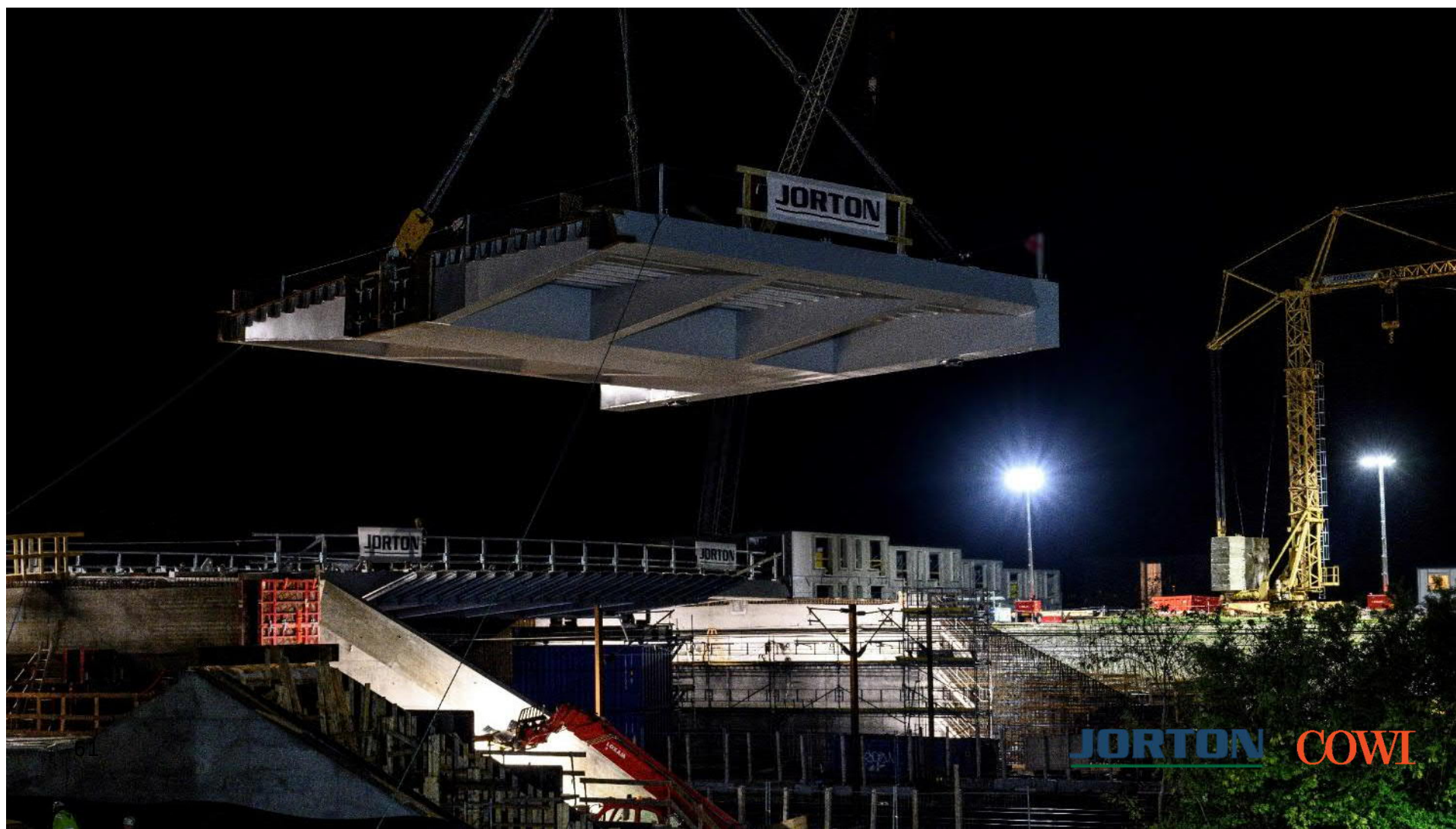
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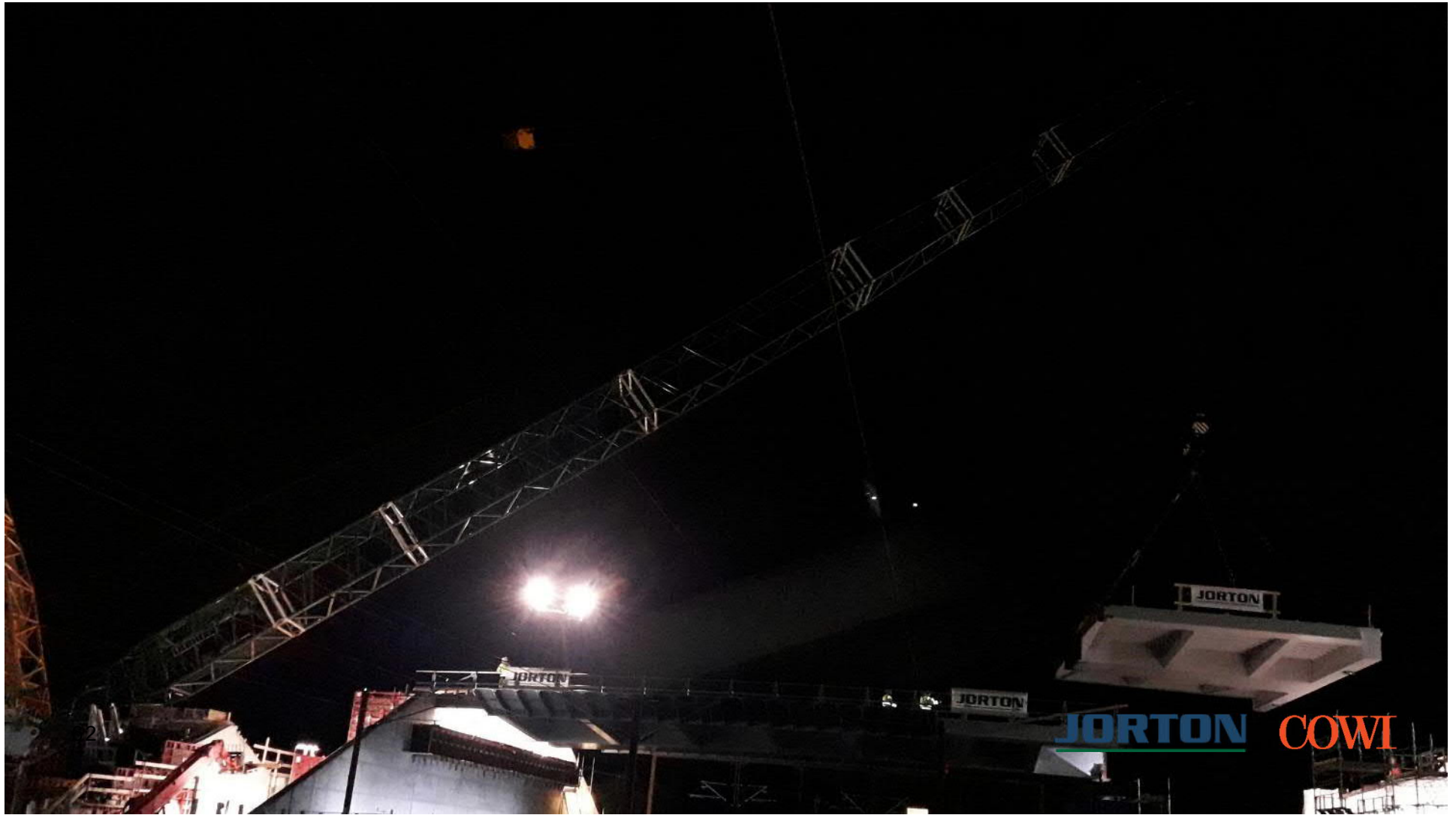


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Tak for godt samarbejde



Bygherreteam

Jackie Lauridsen, Tilsynsførende,
Høje-Taastrup kommune

Lars Koch, Vej- og affaldschef,
Høje-Taastrup kommune

Lene Madsen, Chefkonsulent,
NærHeden P/S

Ole Møller, Projektdirektør,
NærHeden P/S



NærHeden



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