



CG JENSEN 

 VEJLE
KOMMUNE

Vejles svar på Cykelislangen

Hussein Al-Nema, CG Jensen A/S
Jesper Kjærgaard, Vejle Kommune

Dansk Brodag 9. april 2024

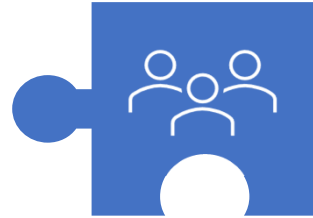
Hvem er vi?

Jesper Kjærgaard

Projektchef i Vejle Kommune 2020

2020 – 2012 Vejdirektoratet
Fagprojektleder udførelse.

2012-2004 COWI
Entrepriseleder udførelse.



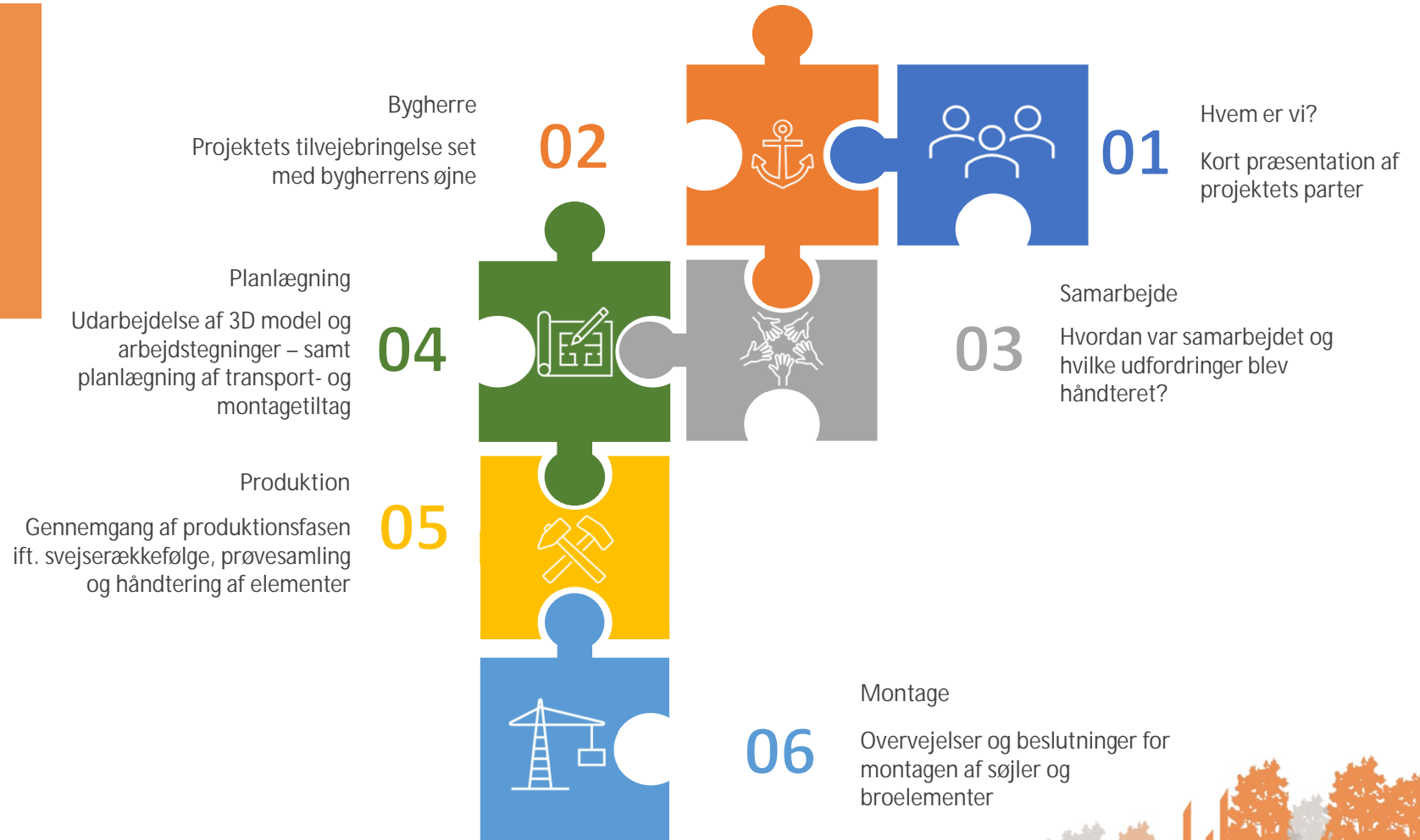
Hvem er vi?

- Hussein Al-Nema
 - Projektleder i ståldivisionen siden 2018
 - Flere end 20 stålbroer
 - Tidligere rådgivende ingeniør
 - Civilingeniør med speciale i konstruktioner, DTU 2014

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Agenda



Hvem er vi?



Hvem er vi?

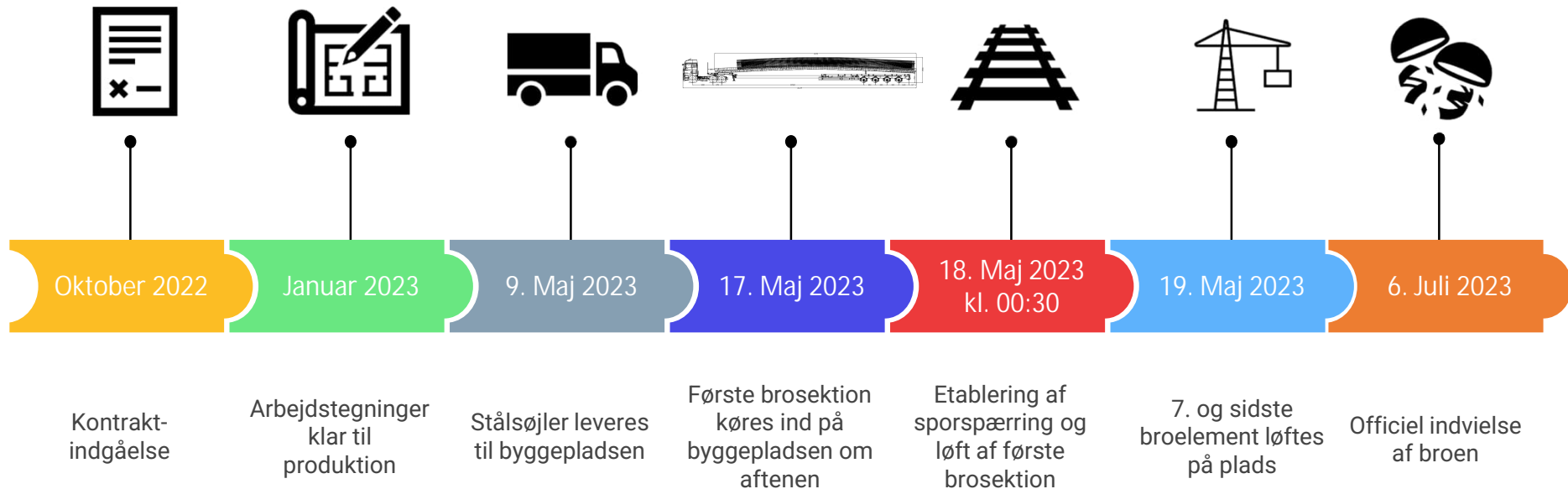
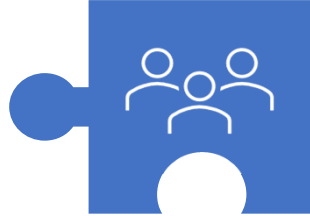


Arkitema ..

COWI

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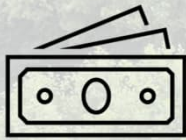
Fakta - tidsplan



Fakta



Hvad har det kostet?



DKK 19 millioner

Fakta

- 560 lbm. stål-pæle
- 60 m³ beton
- Corten stål: 125.417 kg
- Længde 128 m
- Produktionsted: Świecie, Polen



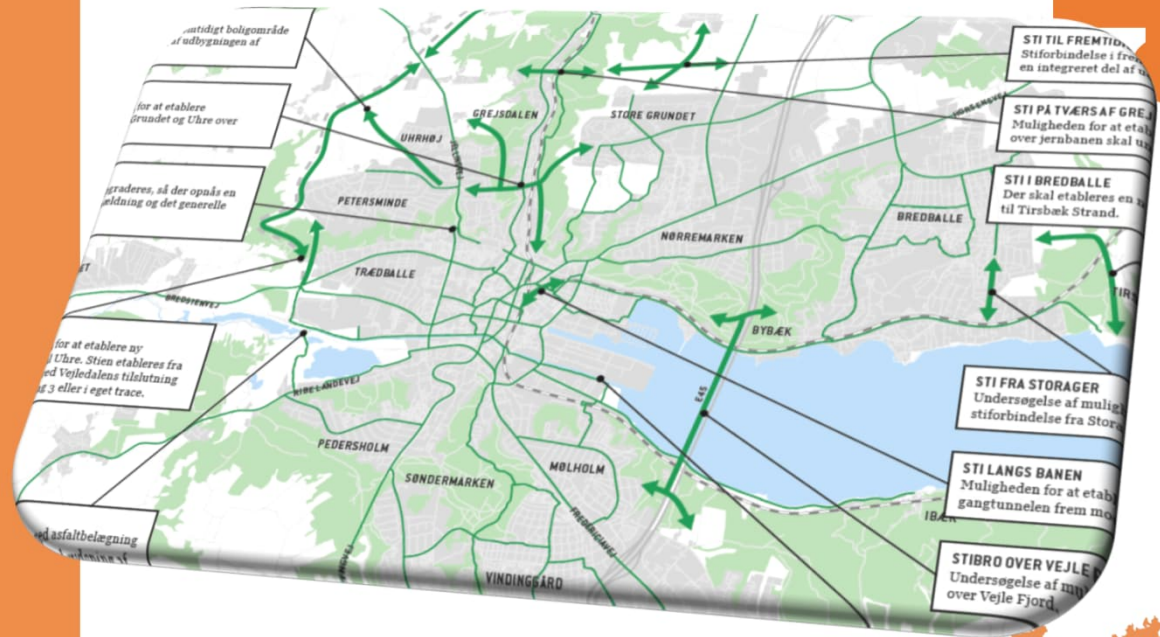
Mobilitetsplan

- Et visionskatalog 2018-2030
- Baggrund og principper
- Nye projekter
- Handlingsplan



Vision & baggrund

- Vejle Kommunes vækst
- Attraktiv mobilitet
- Fredelig midtby
- Høring og borgerinddragelse
- Kapacitetsberegning og trafikmodeller
- Transportvaneundersøgelser



Projekt & handlingsplan

- Anlægsoverslag
- Investeringsplan
- 1.4 mia. 160 mio.



Politiske beslutninger

- Skitseprojektering
- Skitseforslag
- Anlægsbevilling



Visualisering

- 8 skitseforslag
- Stiforbindelser
- Bro eller tunnel
- Forbinde to bydele
- Sikker krydsning af jernbanen
- Topografi og udfordringer



Ny stibro i Grejsdalen

- Grejsdalen til sundhedsskoven
- Oplevelsesrig placering
- Udflugtsmål
- Blødt S formet forløb
- Forcer bar integrering



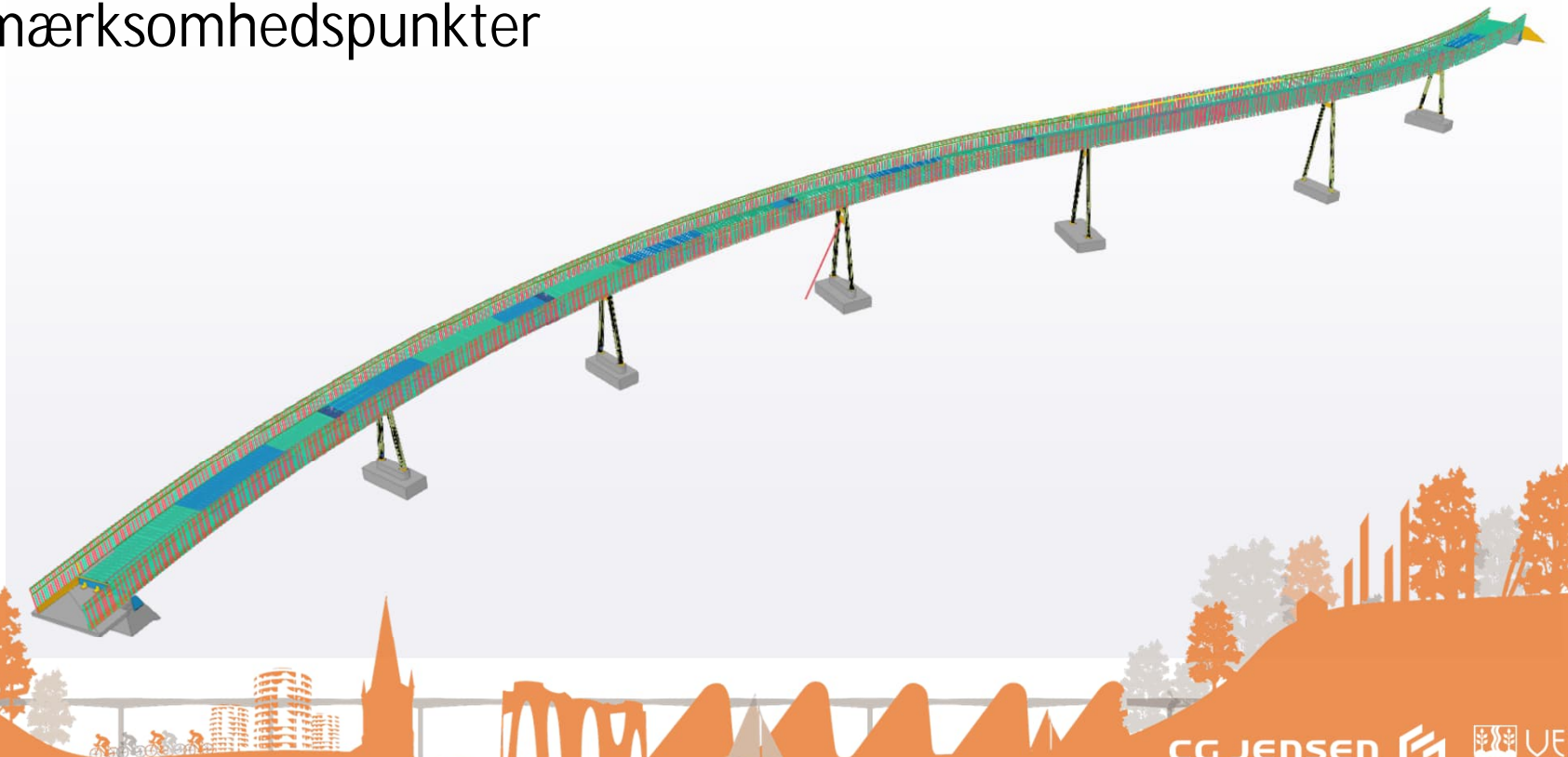
Samarbejde



- ✓ Løsningsorienteret
 - Eksempler:
 - Trafikafvikling
 - 21 aftalesedler
 - 25 forespørgsler
- ✓ Fælles tilsyn i Polen
- ✓ God løbende dialog
 - ↓
 - ✓ Hurtig responstid fra bygherre/rådgiver
 - ↓
 - ✓ Flexibilitet ved afvigelser og tilpasninger på byggepladsen

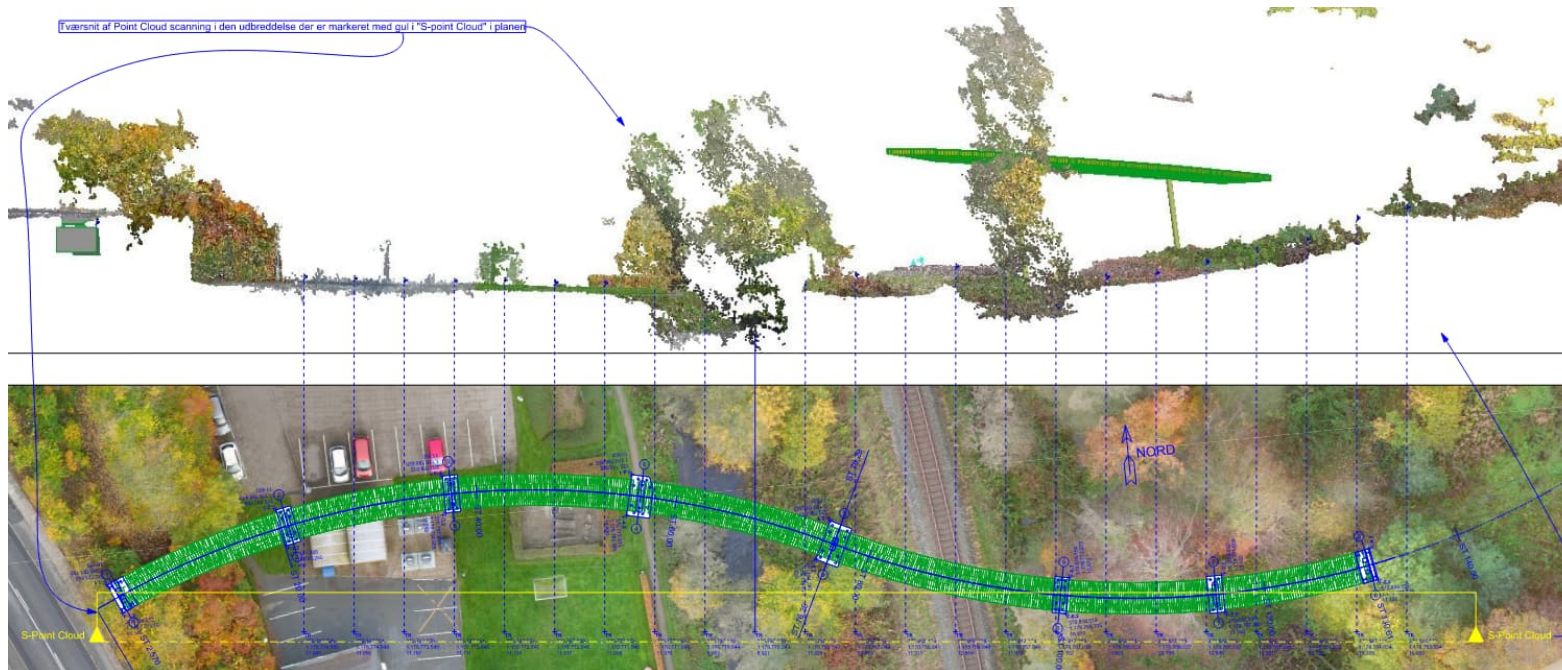
Planlægning

- ✓ 3D model med pilhøjde
 - opmærksomhedspunkter

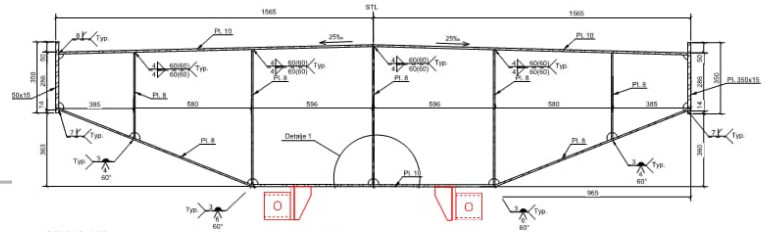
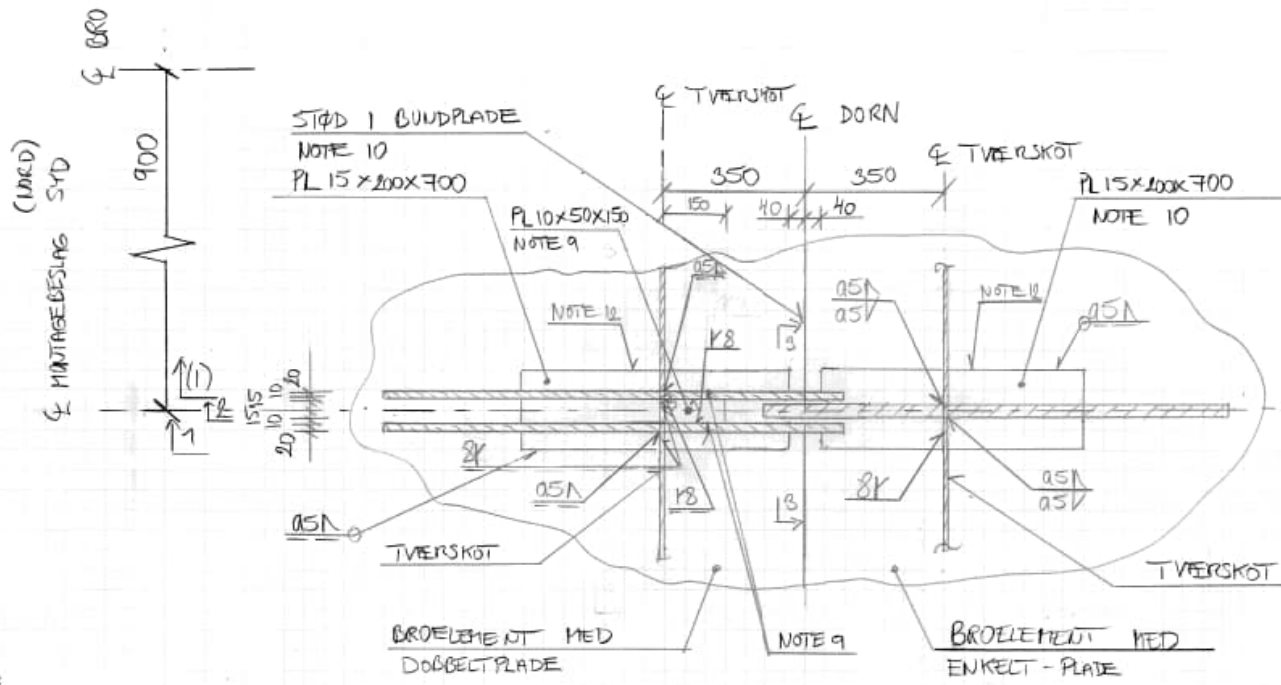


Planlægning

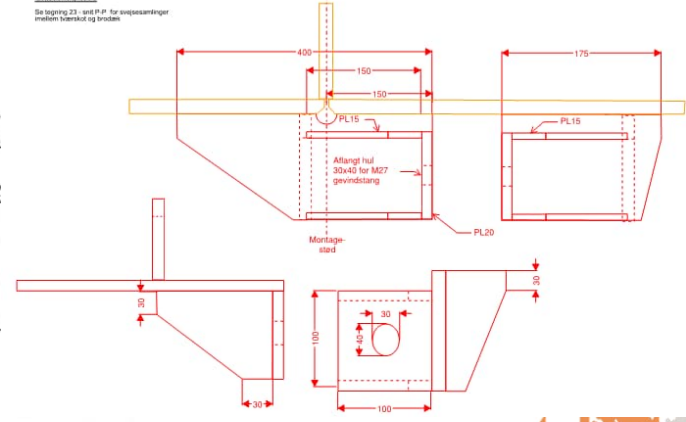
- ✓ Anvendelse af droneoverflyvninger og pointclouds



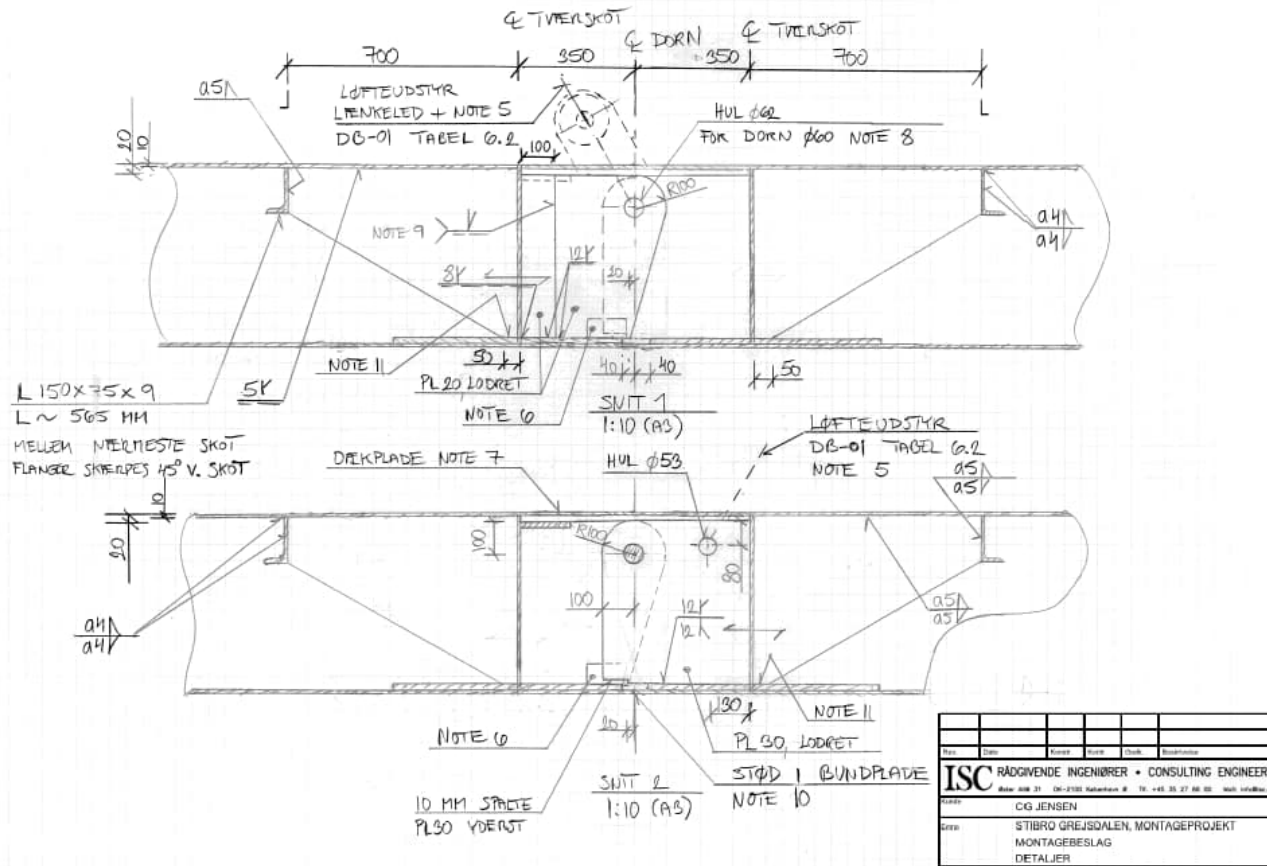
Planlægning



Snit A-A 1:10
Se tegning 21 og P.P. for svejseanordninger mellem tværskøt og broelement.

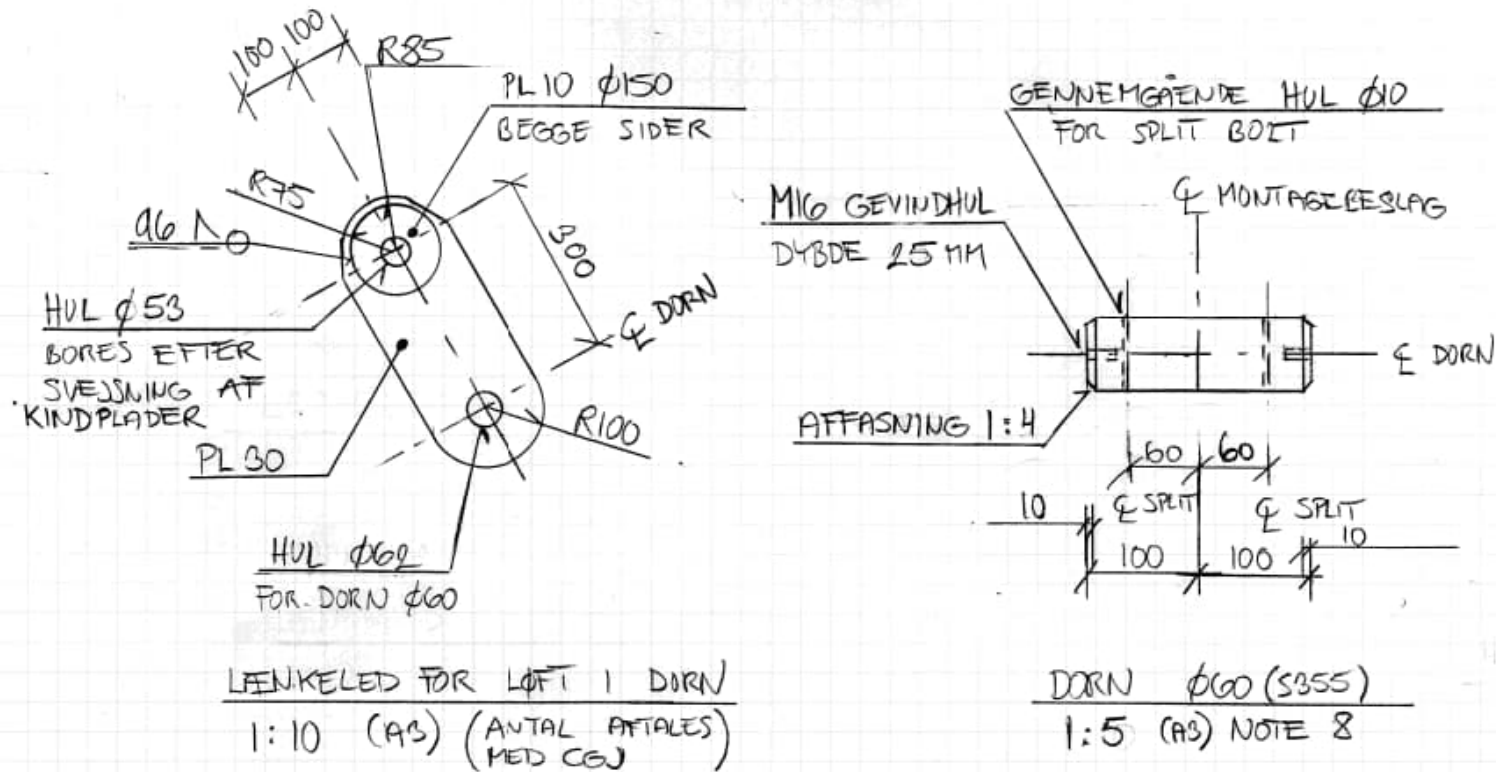


Planlægning

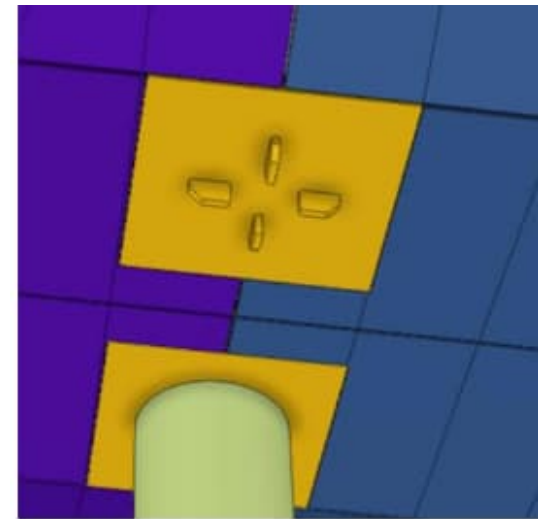
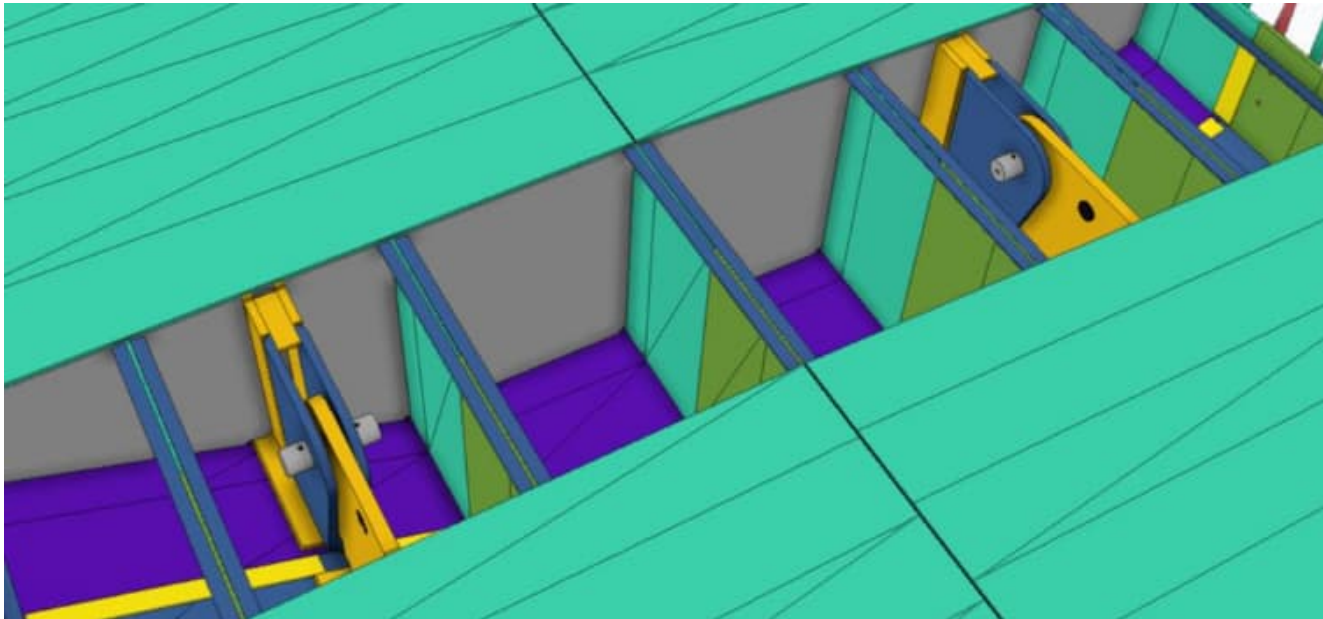
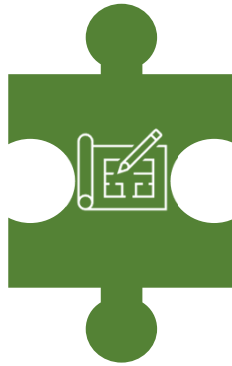


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 Dansk Brodag 9. april 2024

Planlægning



Planlægning



Planlægning



Planlægning

Transport fra Polen



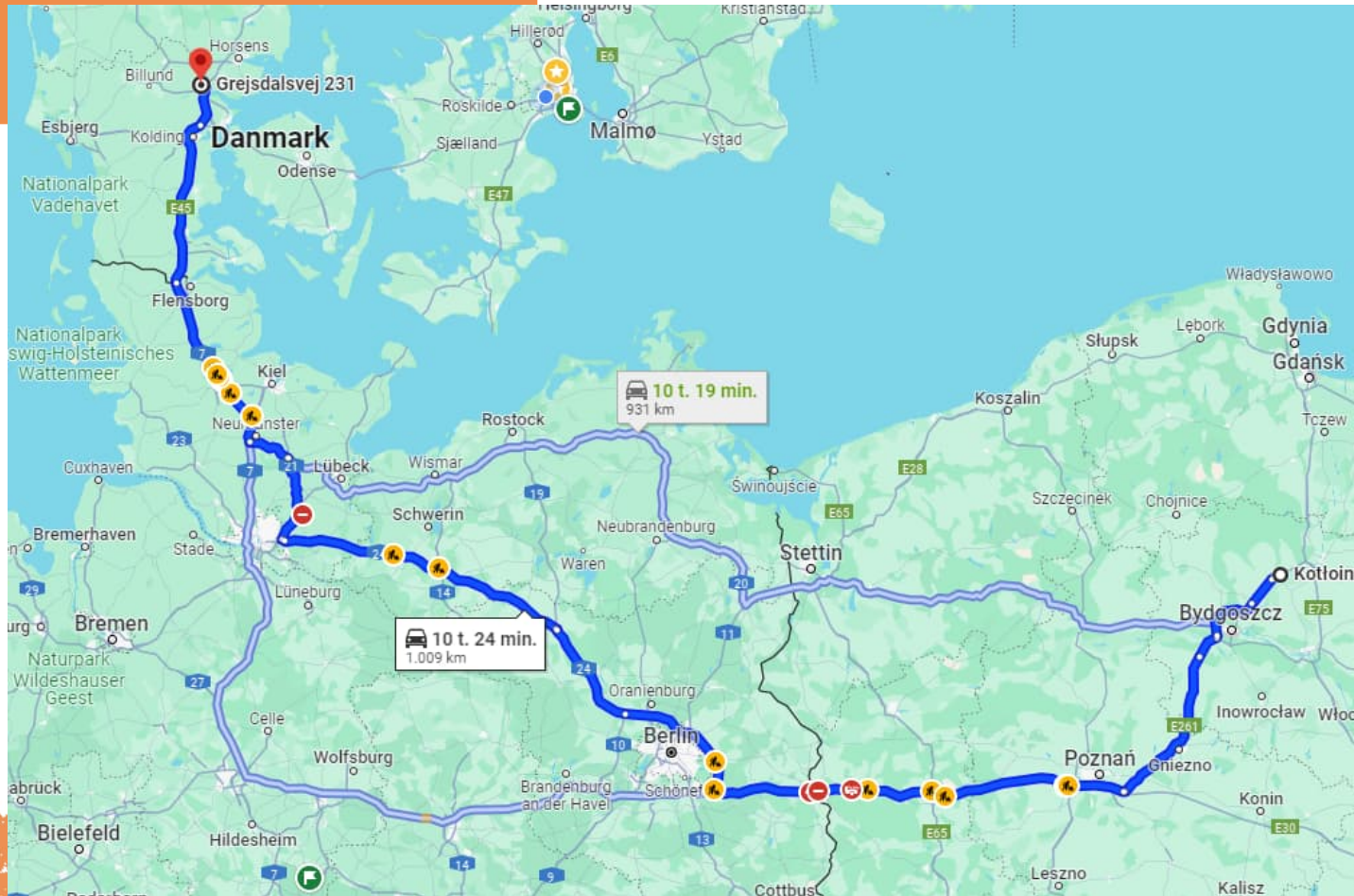
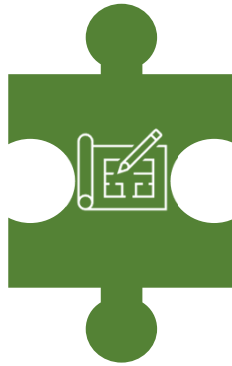
Land vs. vand



DE vs. SE

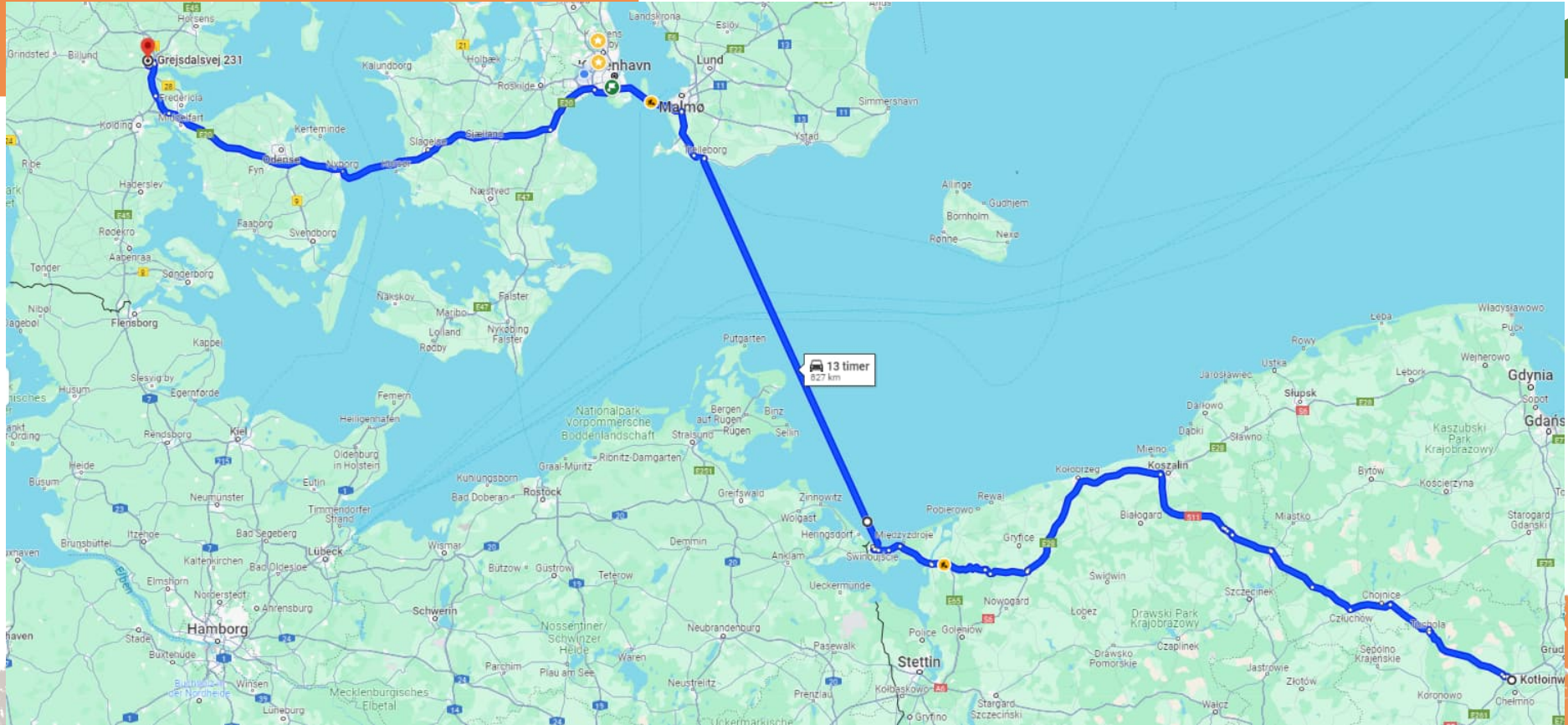


Planlægning



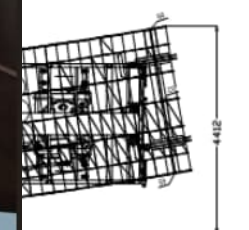
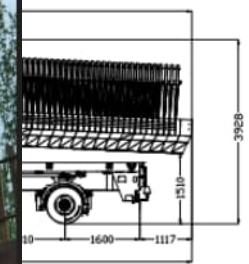
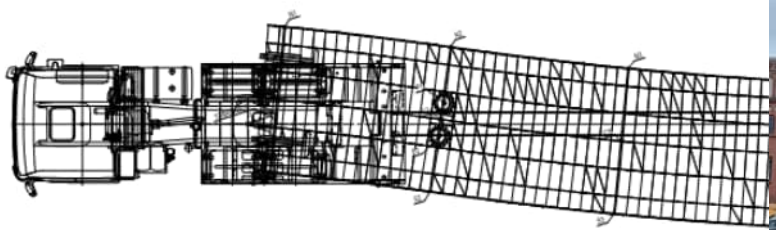
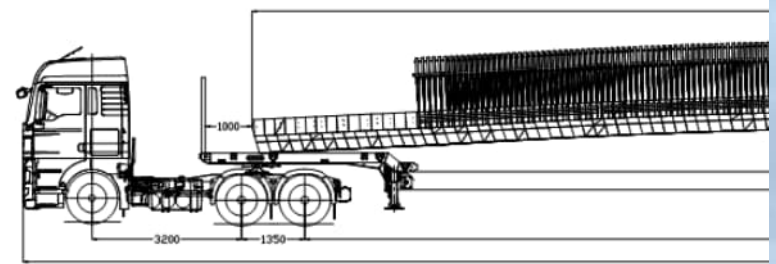
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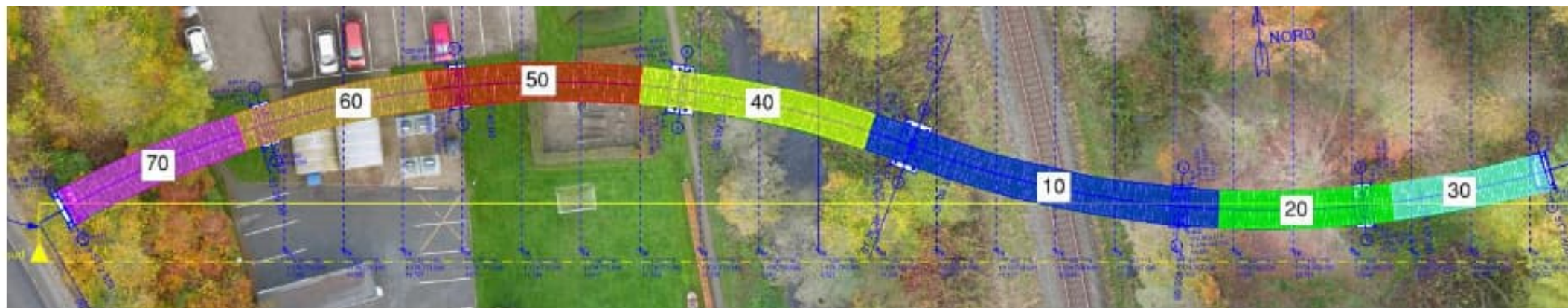


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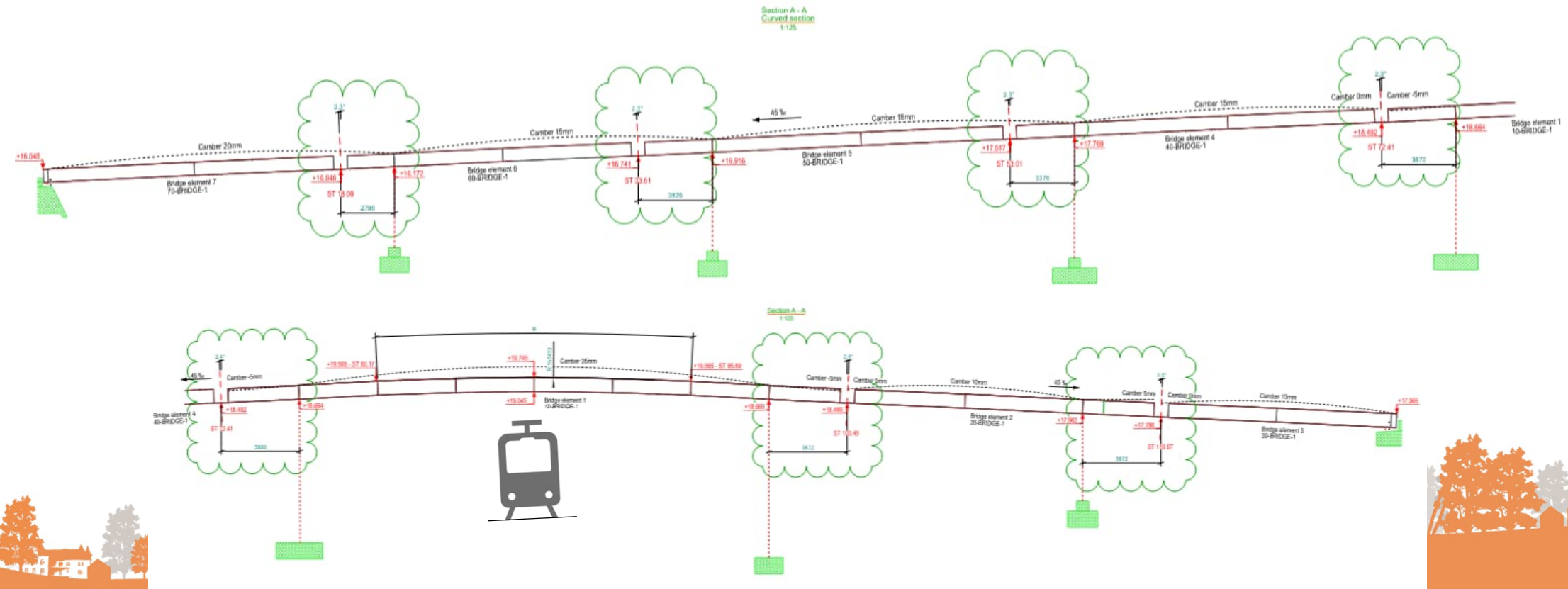
Planlægning



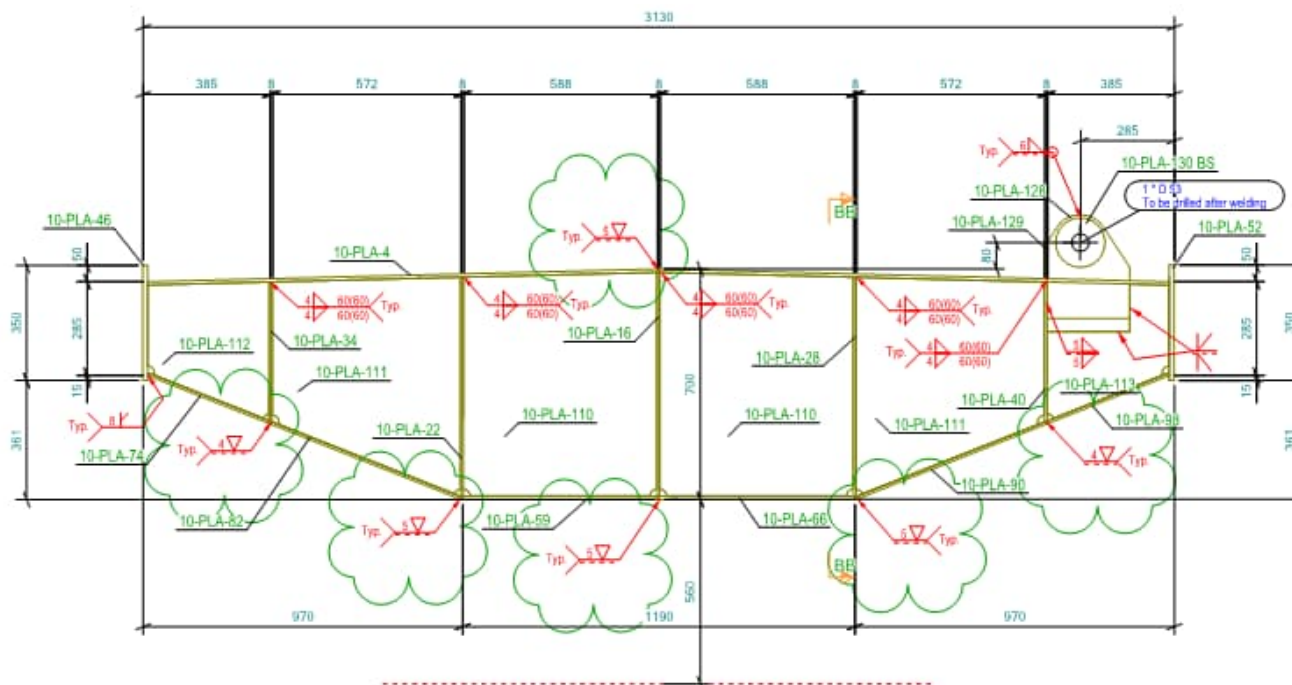
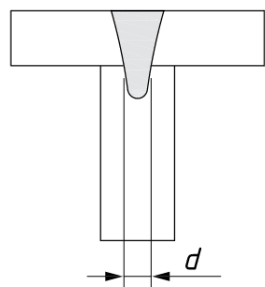
Geometri



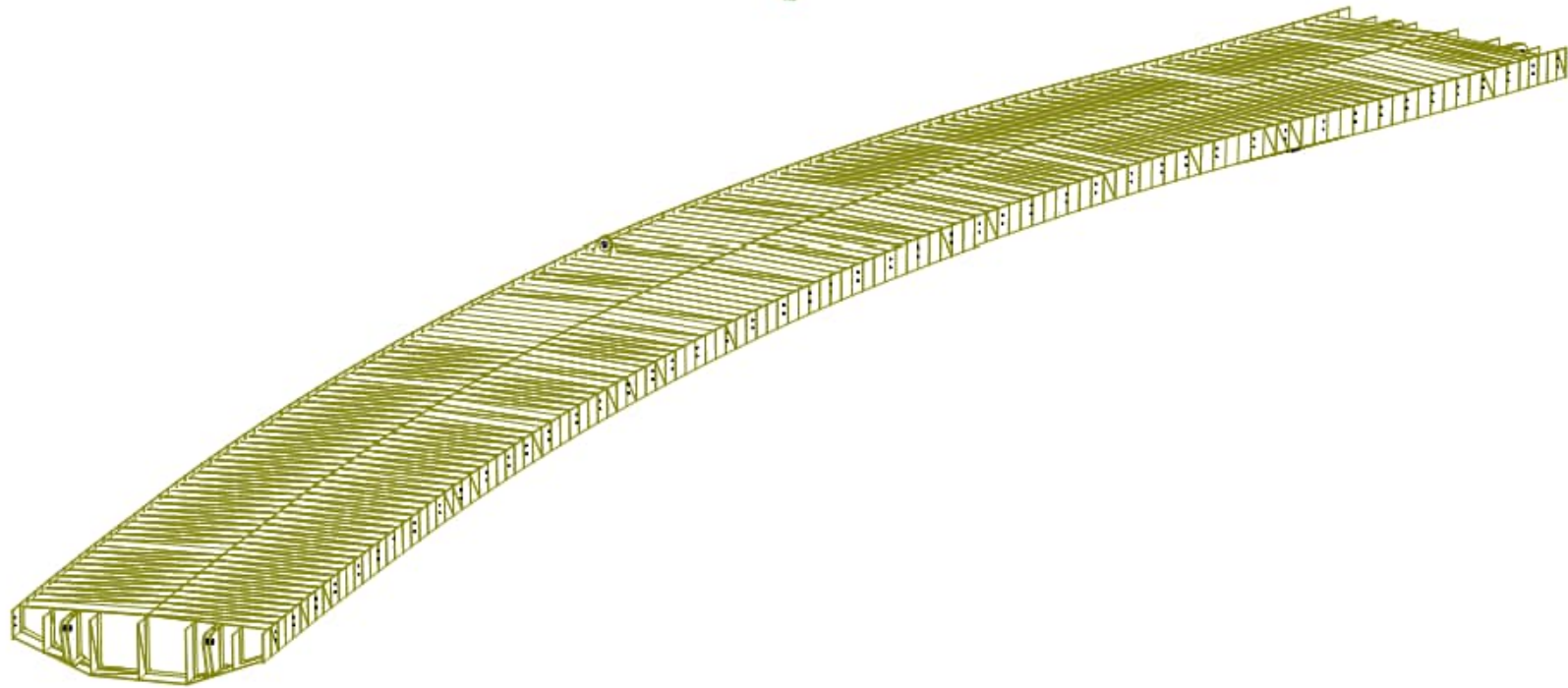
Geometri



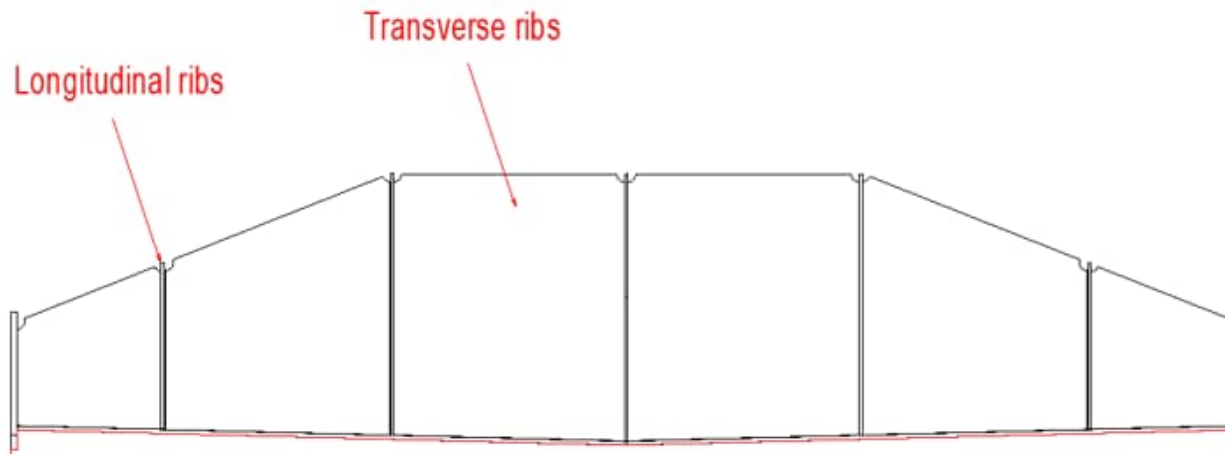
Tværsnit



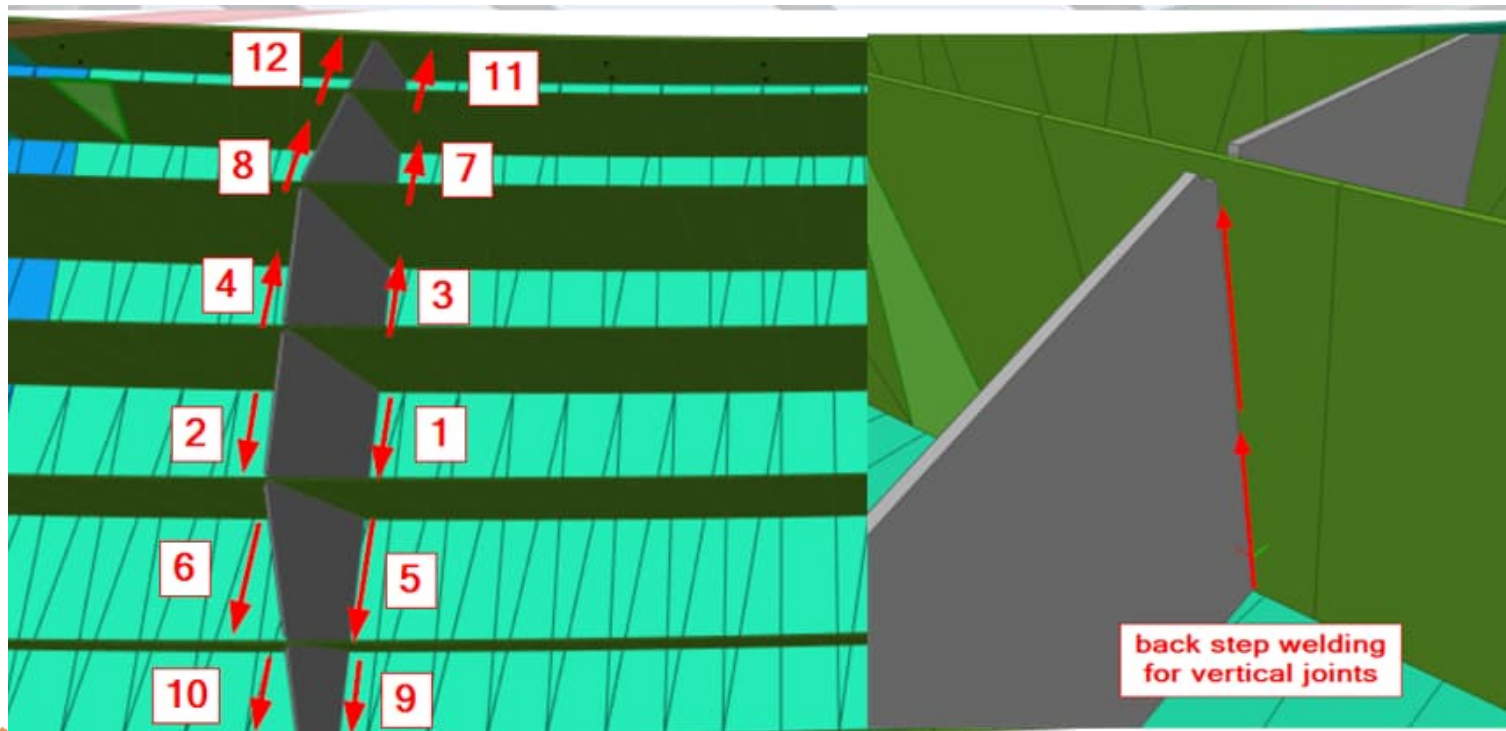
Tværsnit



Svejsesekvens



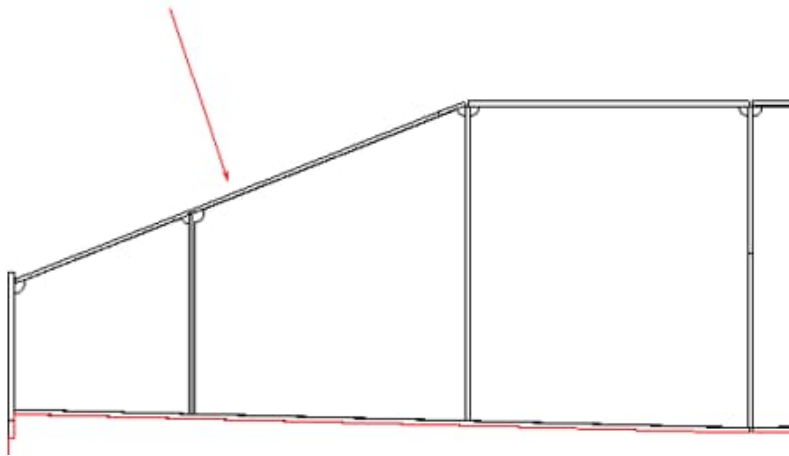
Svejsesekvens



Svejsesekvens



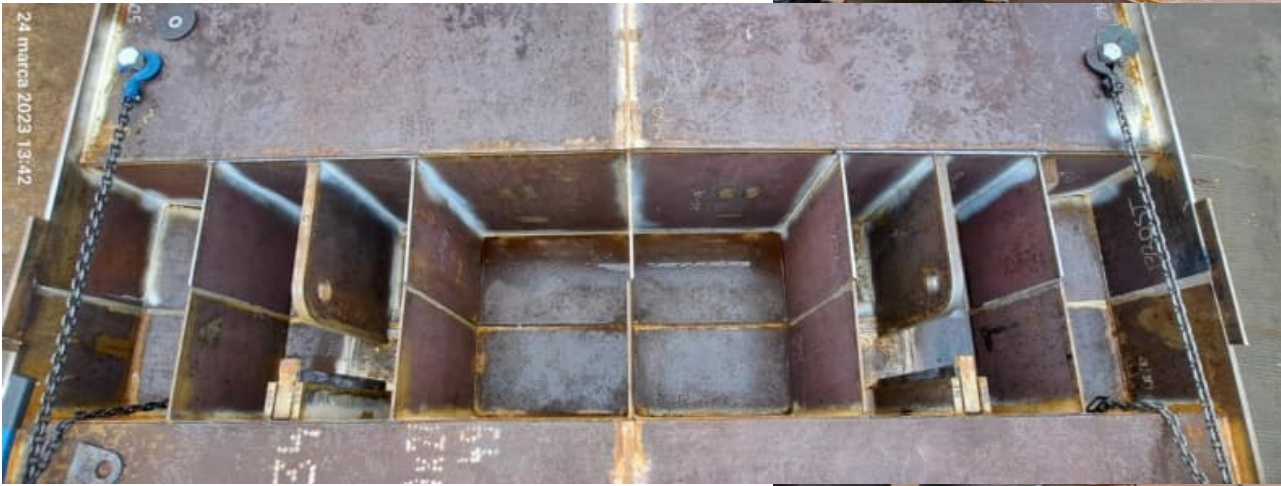
Closing plates



Prøvesamling 10+40



Prøvesamling 60+70

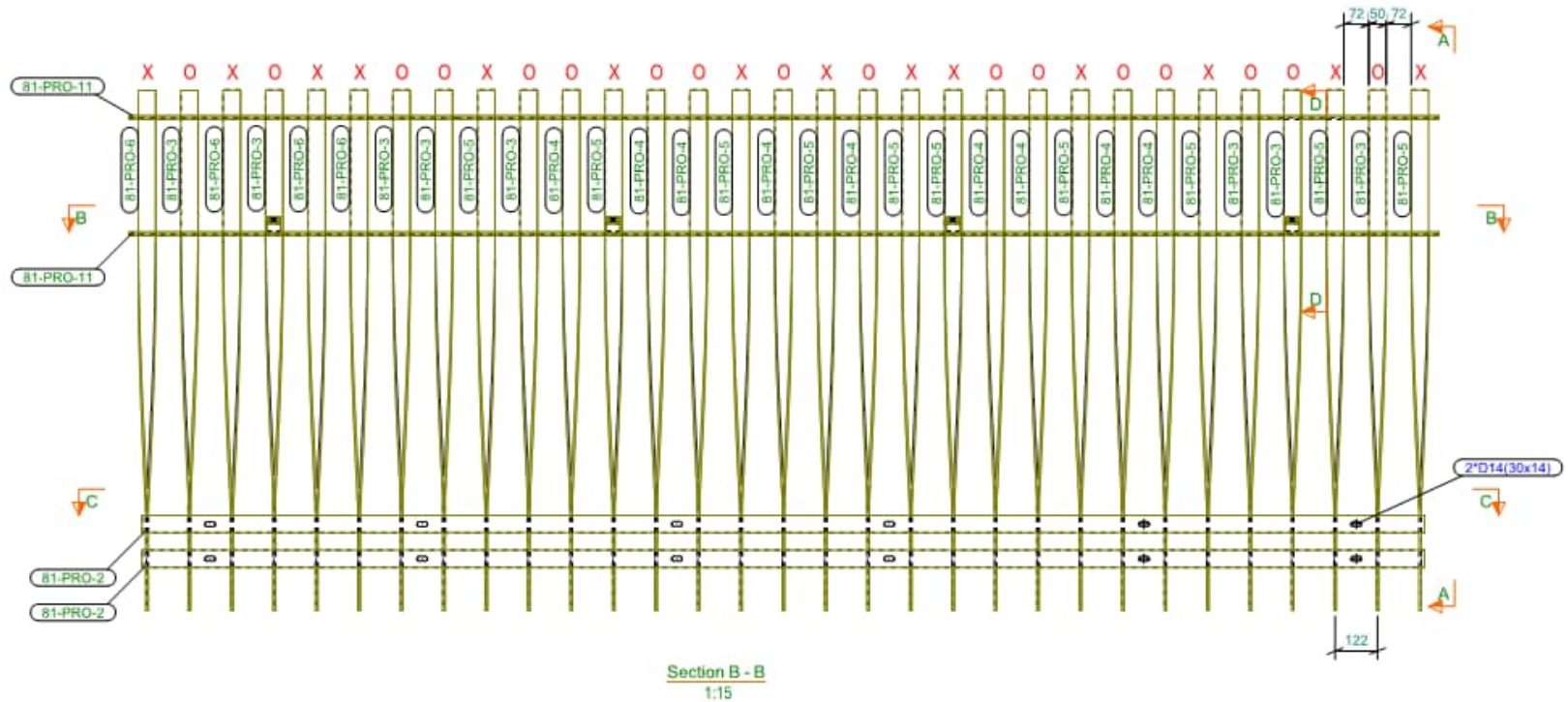


Rækværker



81-PRO-3 = 81-PRO-4: (O) top turned counter clockwise
81-PRO-5 = 81-PRO-6: (X) top turned clock wise

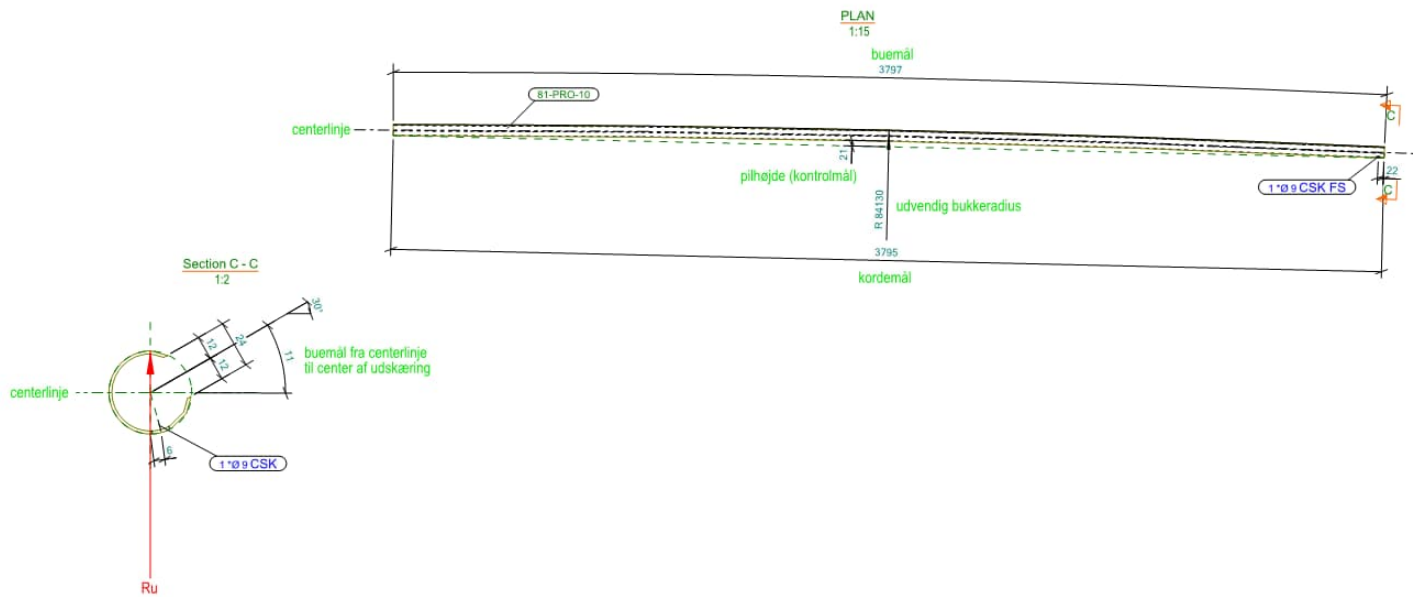
2085 stk.
vredne
sceptre
PL6x50



Rækværker



Håndlister



Rækværker & håndlister

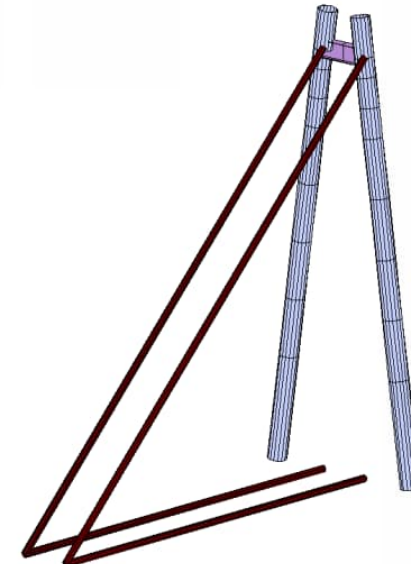
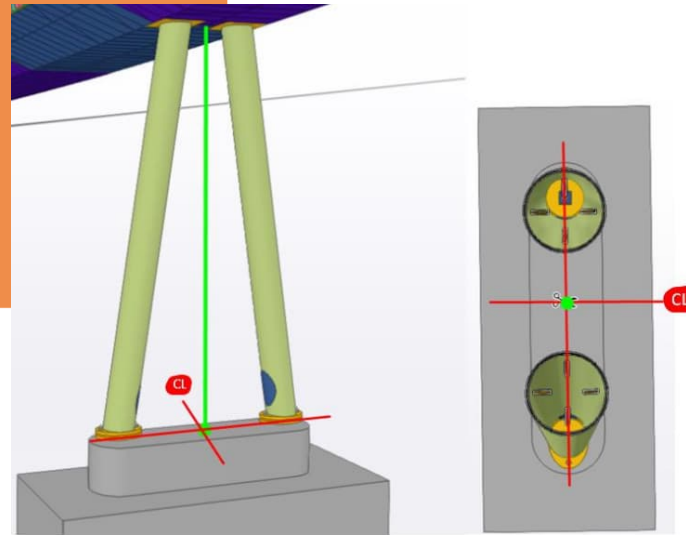


Håndtering og transport af elementer

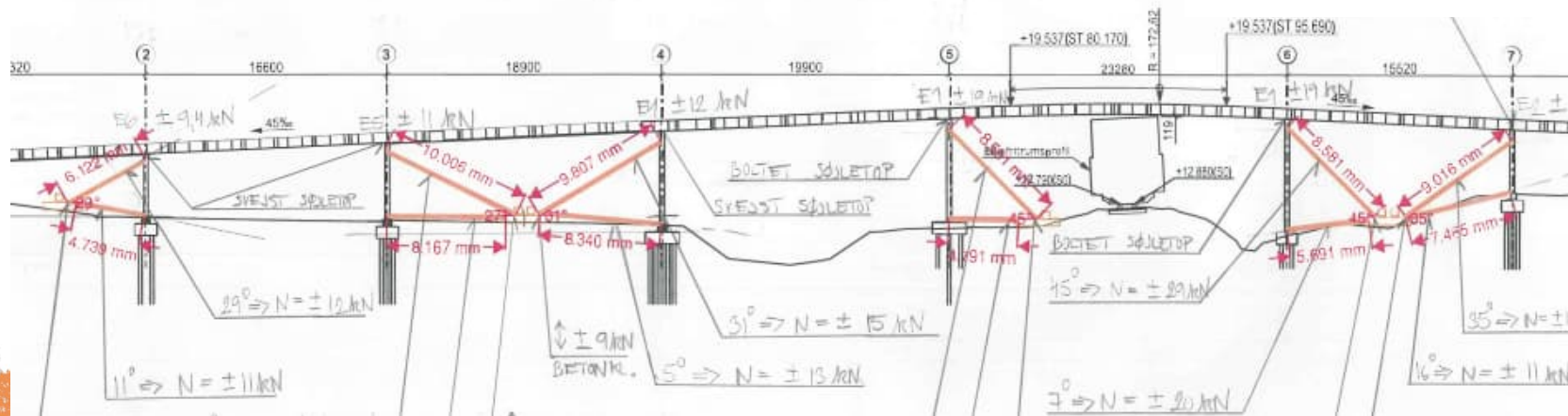
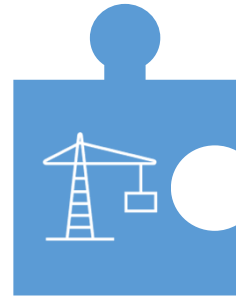


Montage

- Søjler

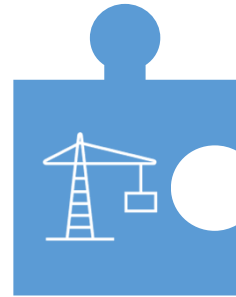
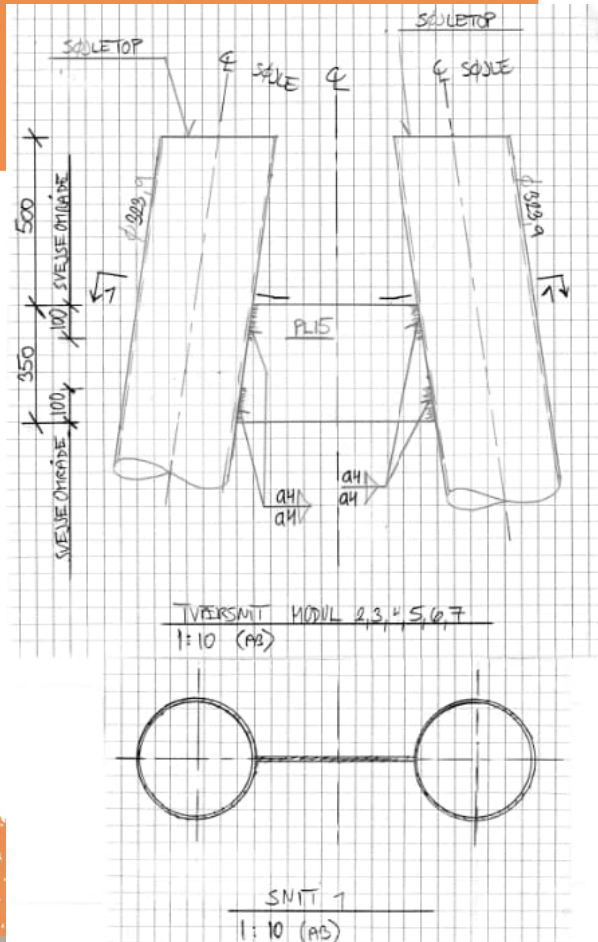


Figur 4-2: GTStrudl-model, isometri



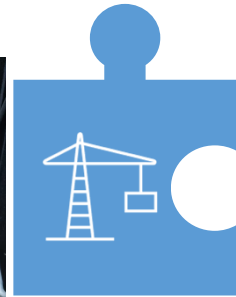
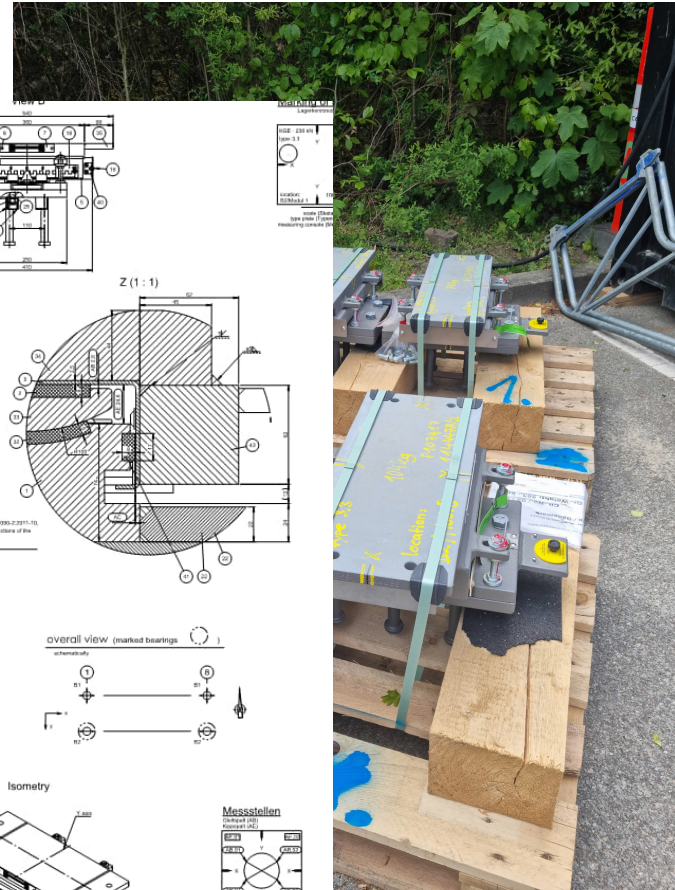
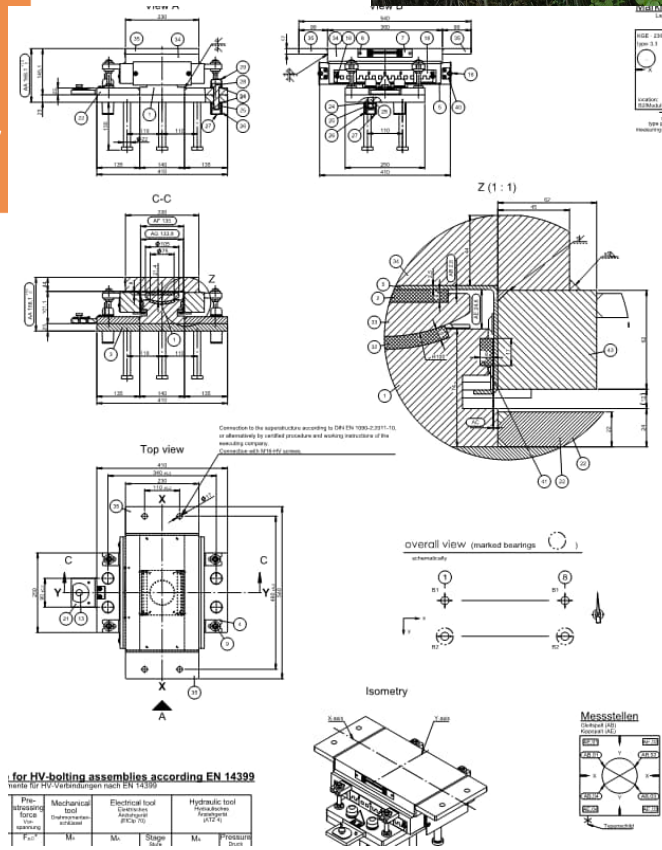
Montage

- Søjler



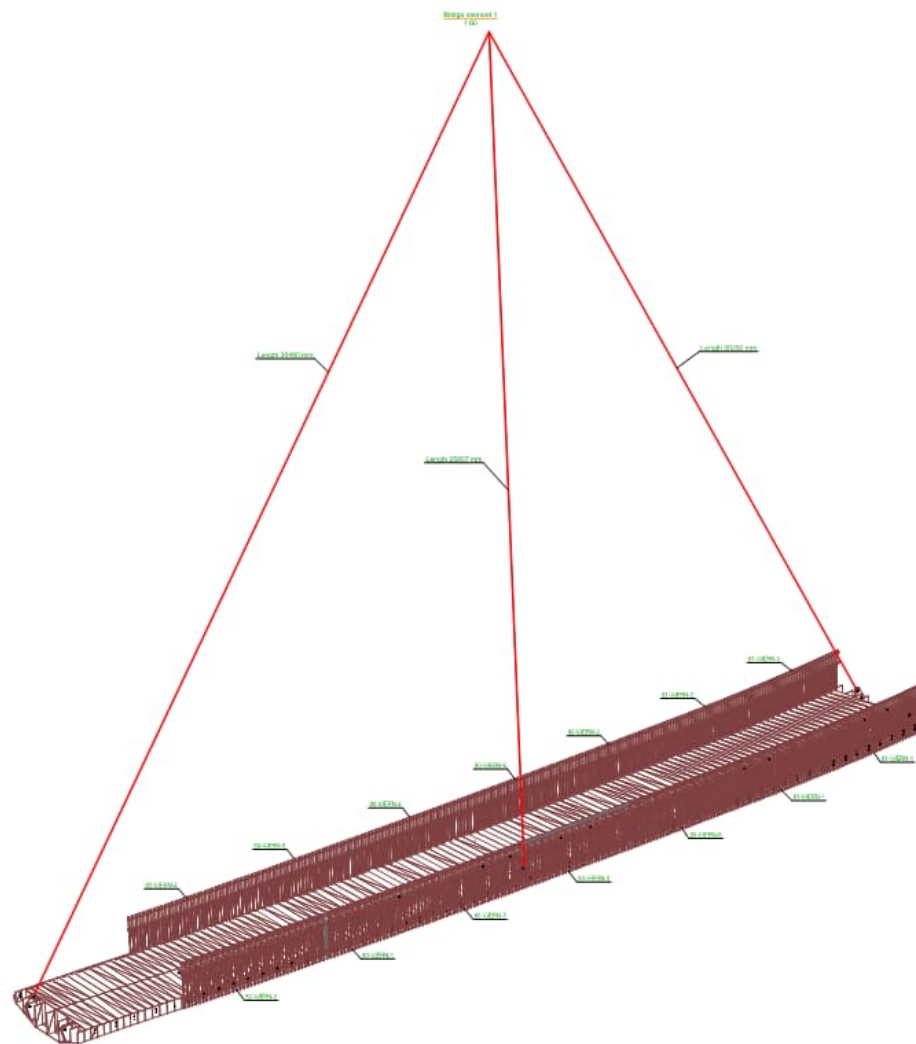
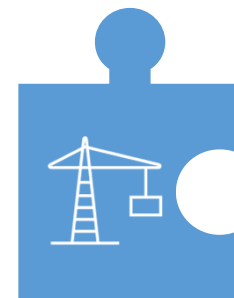
Montage

- Brolejer
- Sfæriske KGA og KGE lejer



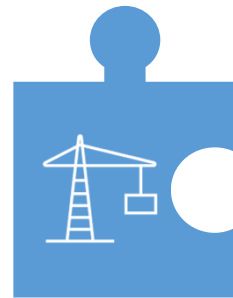
Montage

- Løftekonfigurationer



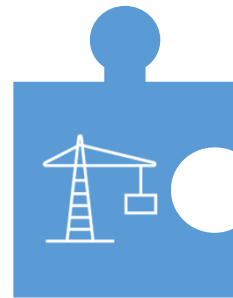
Montage

- Løftekonfigurationer



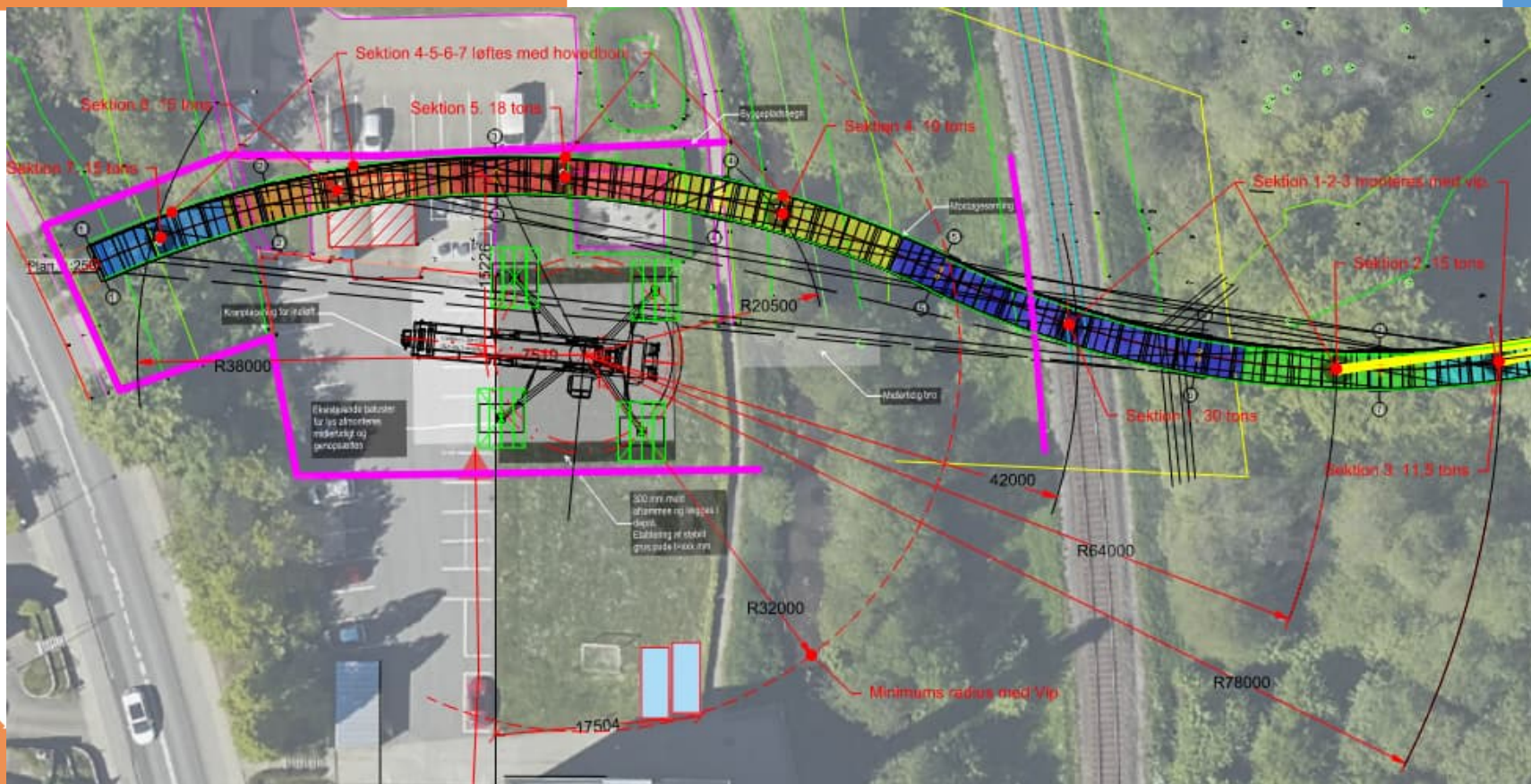
Montage

- Løftekonfigurationer



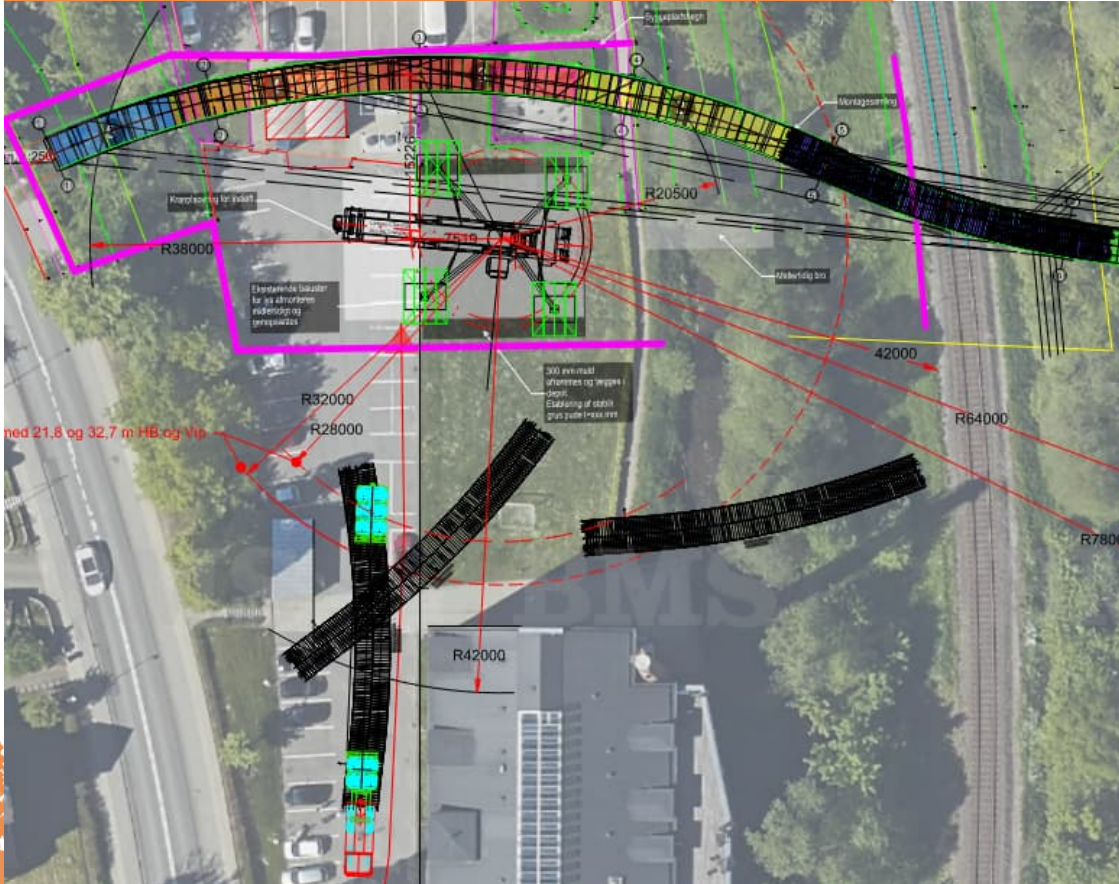
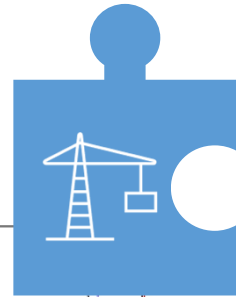
Montage

Mobilkran

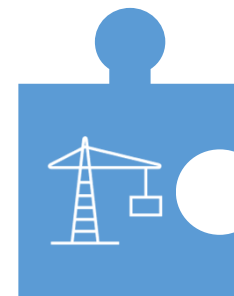


Montage

Mobilkran



Montage



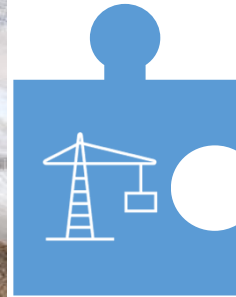
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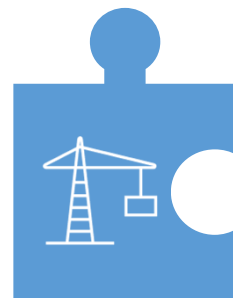
Montage

- Montagestød



Montage

Som udført indmåling



Nominering

Nordic Bridge Price 2024

Spørgsmål ?