



## Claus Iversen

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- 2008 – til i dag, Construction Manager, D&R and Marine Works, Femern A/S
- 2005 – 2008 Construction Manager, Bosphorus, Istanbul, The Marmaray Project, Immersed Tunnel
- 1995 – 2001 Contract Director, D&R Øresundskonsortiet, DK
- 1975 – 1995, Danish Hydraulic Institute Marine Works



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**Femern**  
*Sund Æ Bælt*

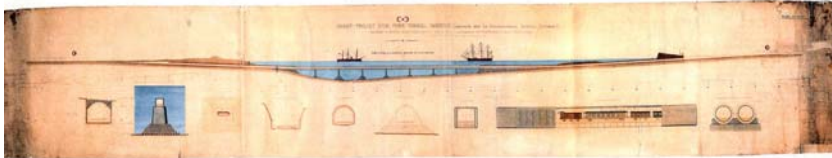
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10. september 2015



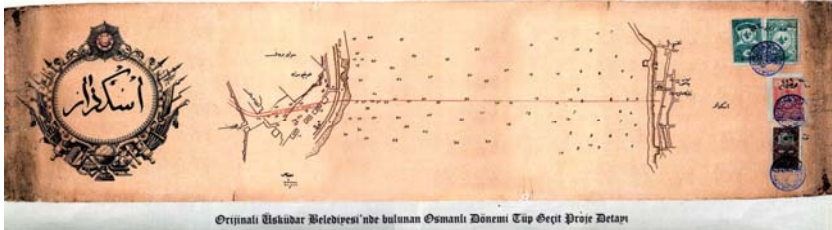




### The Background (1860)



1860 tarihli orijinal Tüp Geçit Projesi Planı



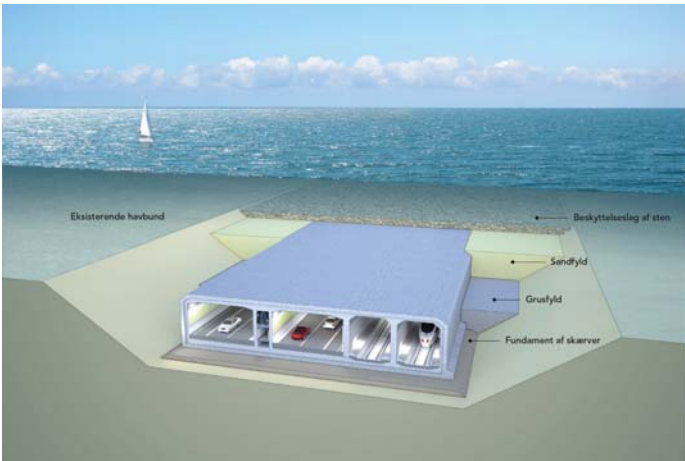
Orijinali Üsküdar Belediye'si'nde bulunan Osmanlı Dönemi Tüp Geçit Proje Detayı

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### Gravet ned i havbunden

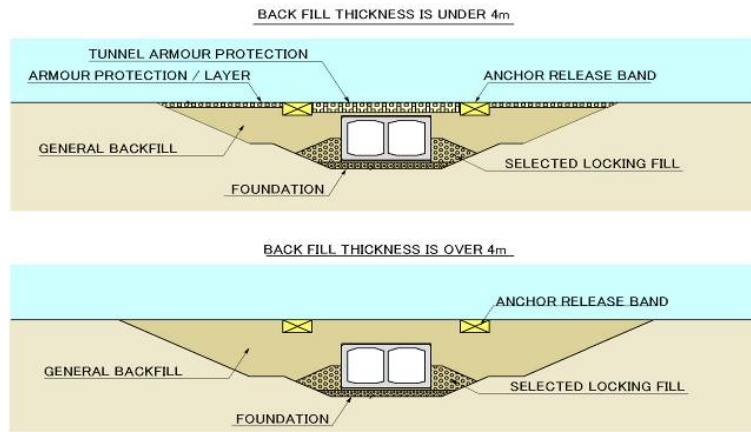


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## Dredging Works

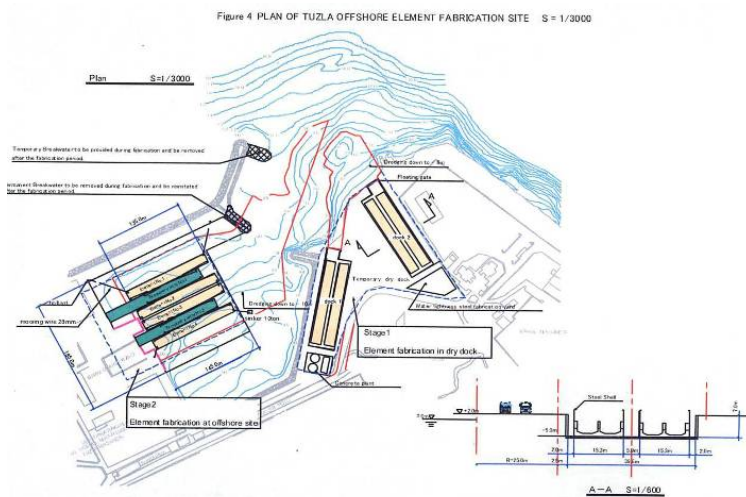


<b>Contaminated soil: 120.000 m3</b>	<b>Clean soil: 1.000.000 m3</b>
<b>Stone backfill: 130.000 m3</b>	<b>Soil backfill: 800.000 m3</b>

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## Immersed Tunnel Yard



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### Tuzla Construction Yard



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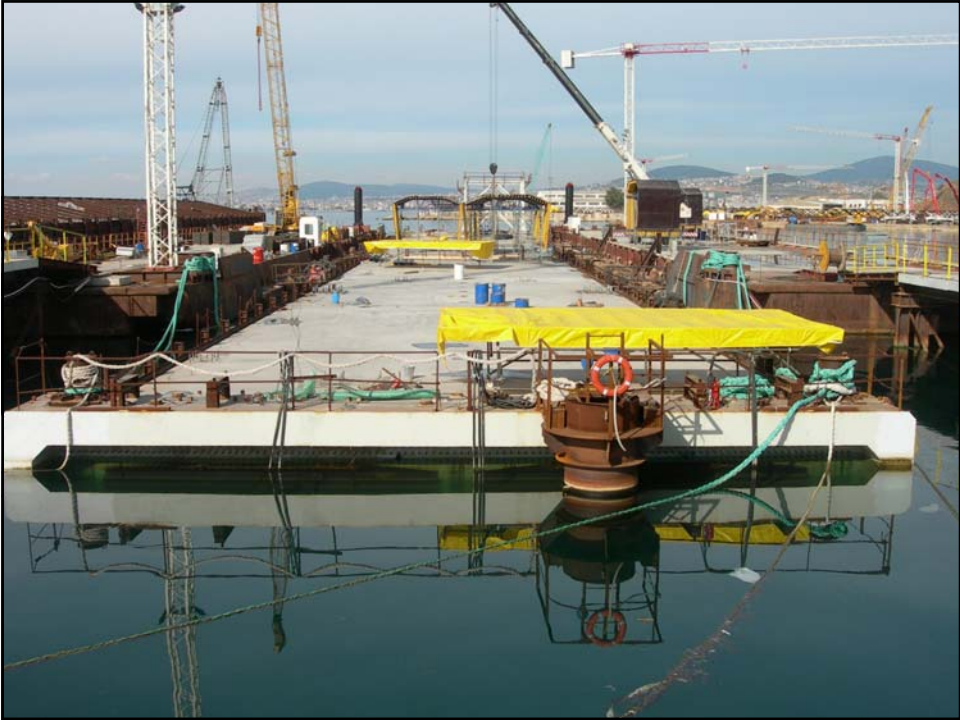
**Elements, today, E4 – E1**



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**Bosphorus, Marine Works**



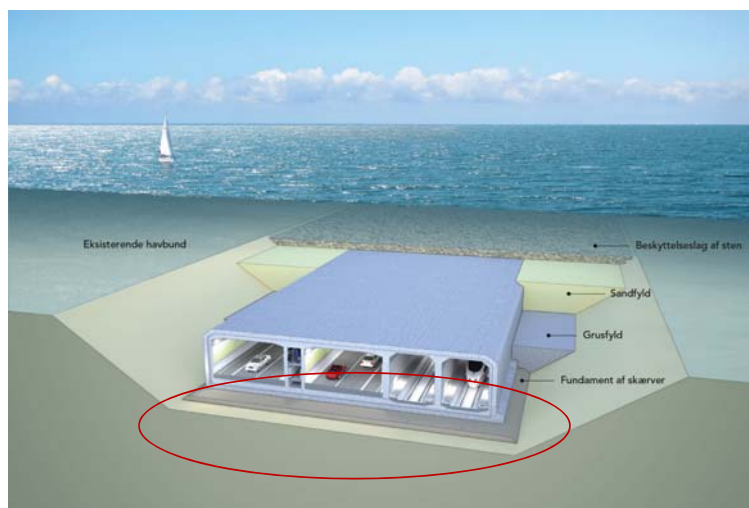
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*Sund Æ Bælt*

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## Nedsænket på et tunnelfundament



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## Tunnelfundament



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### Bosphorus, Marine Works



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## Immersion Barge

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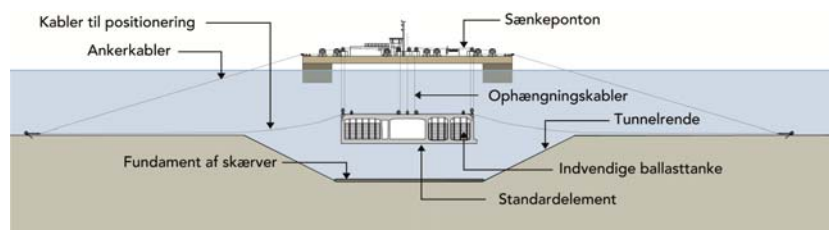
Preparing element for immersion

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## Sænkning af elementer



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## Monteringsudstyr oven på elementerne



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## Sammenkobling mellem tunnelelement og sænkepram

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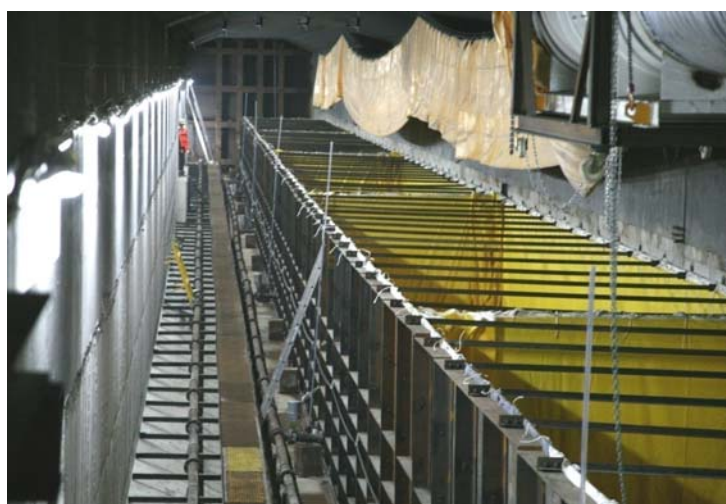
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## Indvendigt udstyr i elementerne

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**Inside Element 7, today**



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**Tunnelement klart til nedsenkning**



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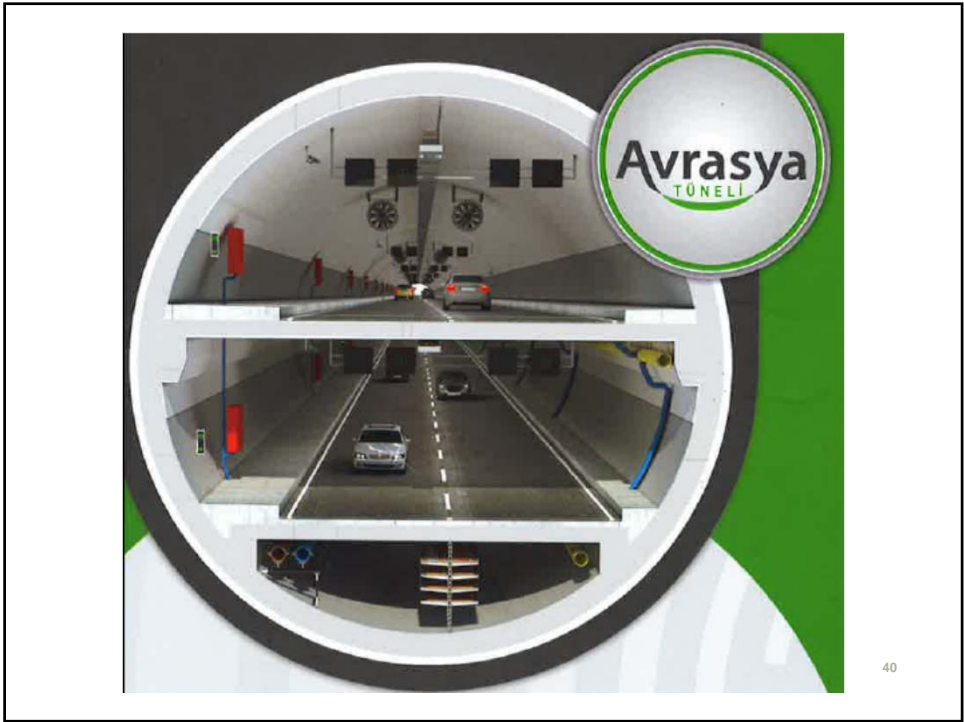
## Udstyr i kontrolrummet

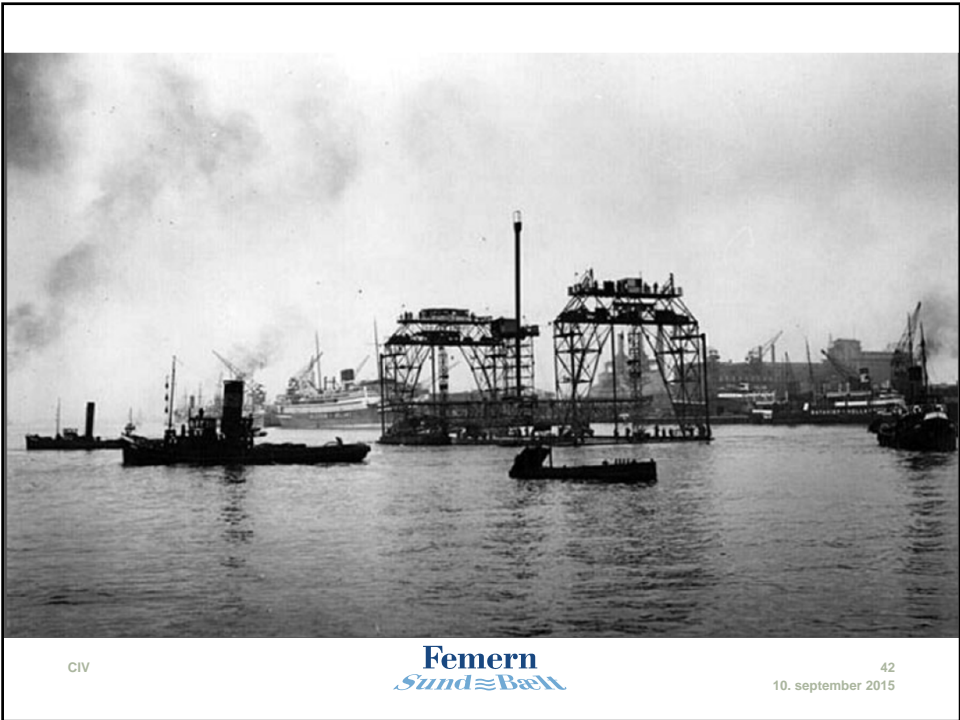


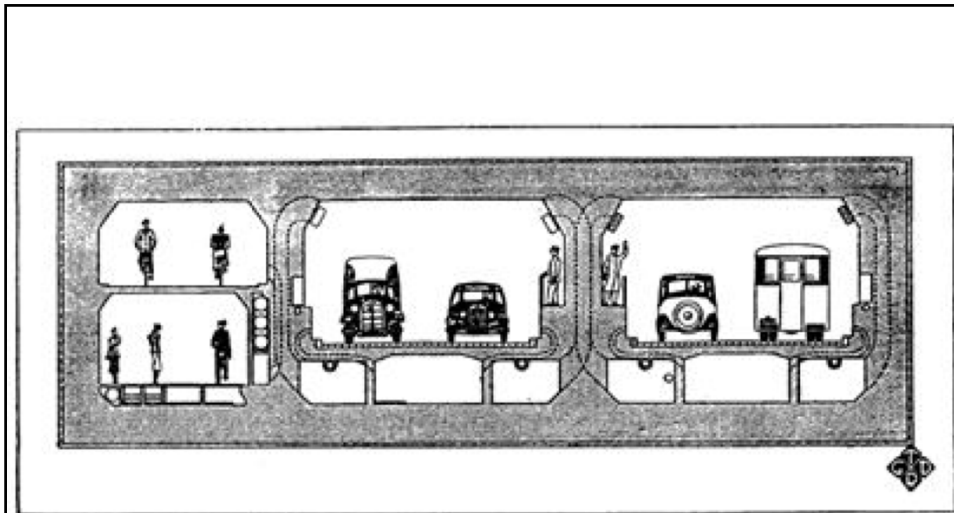
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**Fig. 12** Dwarsdoorsnede van de Maastunnel "in gebruik".

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