Project:

STAD SHIP TUNNEL

LOCATION:
Stad, Selje municipality, Norway

YEAR:
2016

CLIENT:
The Norwegian Coastal Administration

SCOPE/PHASE:
Pre-engineering

PROJECT RESPONSIBLE:
Anette Fjeld (afj@olavolsen.no)

PROJECT DESCRIPTION:
Stad Ship Tunnel will be 1.7 kilometres long, 38 metres heigh above LAT and 26.5 metres wide (ship passage), and it will be able to allow ships the size of Coastal Steamer ships (Hurtigruten) to navigate more safely through the very exposed Stadhavet Sea.
Dr.techn Olav Olsen executed the project in cooperation with Norconsult, and were responsible for all the structures. This included entrance funnels, tunnel portals, walkways inside the tunnel and a new bridge for the road fv 618. Key challenges in the project were defining ship impact loads for fenders and supporting structures with application far beyond standards and regulations, and making rational structures taking construction phases, which involves deportation of approx. 3,5 mill. m^3 solid rock, into account.