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COLLABORATION & INNOVATION

Jason Davis
President



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Josh Zellmer, PE
Project Engineer



R&M CONSULTANTS, INC.

R&M's WATERFRONT ENGINEERING TEAM



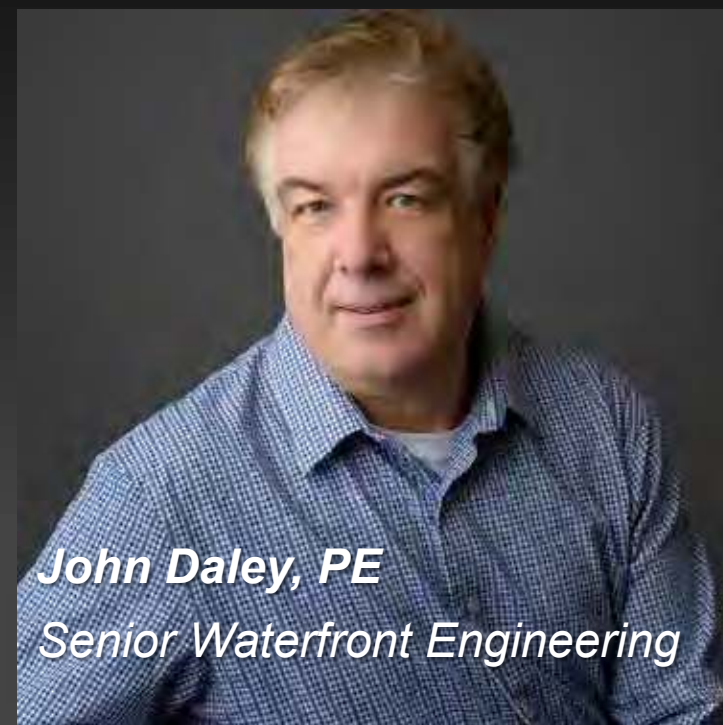
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Kim Nielsen, PE
Group Manager, Waterfront
Engineering



Duane Anderson, PE
Group Manager, Structural
Engineering



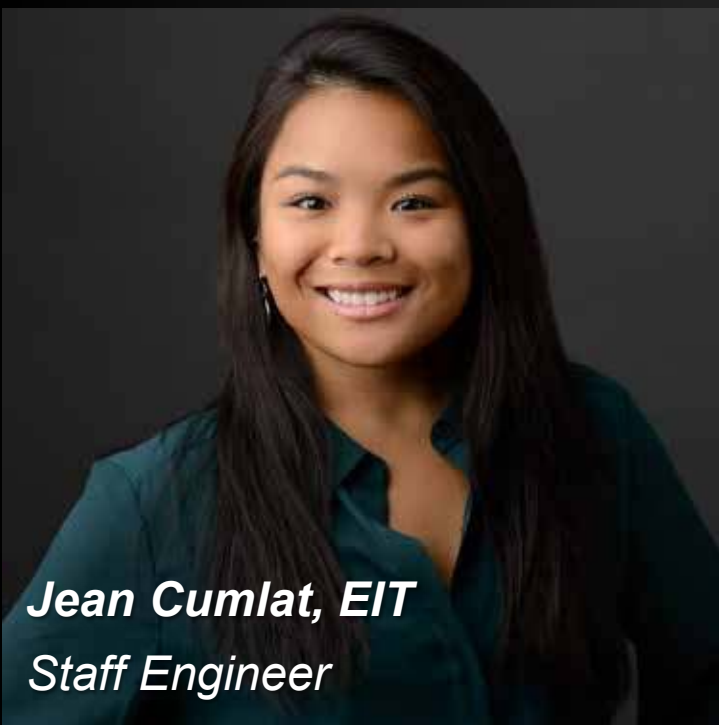
John Daley, PE
Senior Waterfront Engineering



Josh Zellmer, PE
Structural Engineer



Josh Crowe, PE
Structural Engineer



Jean Cumlat, EIT
Staff Engineer



Mike Adams, EIT
Engineering Technician



Bob Pintner, PE
Senior Geotechnical Engineer

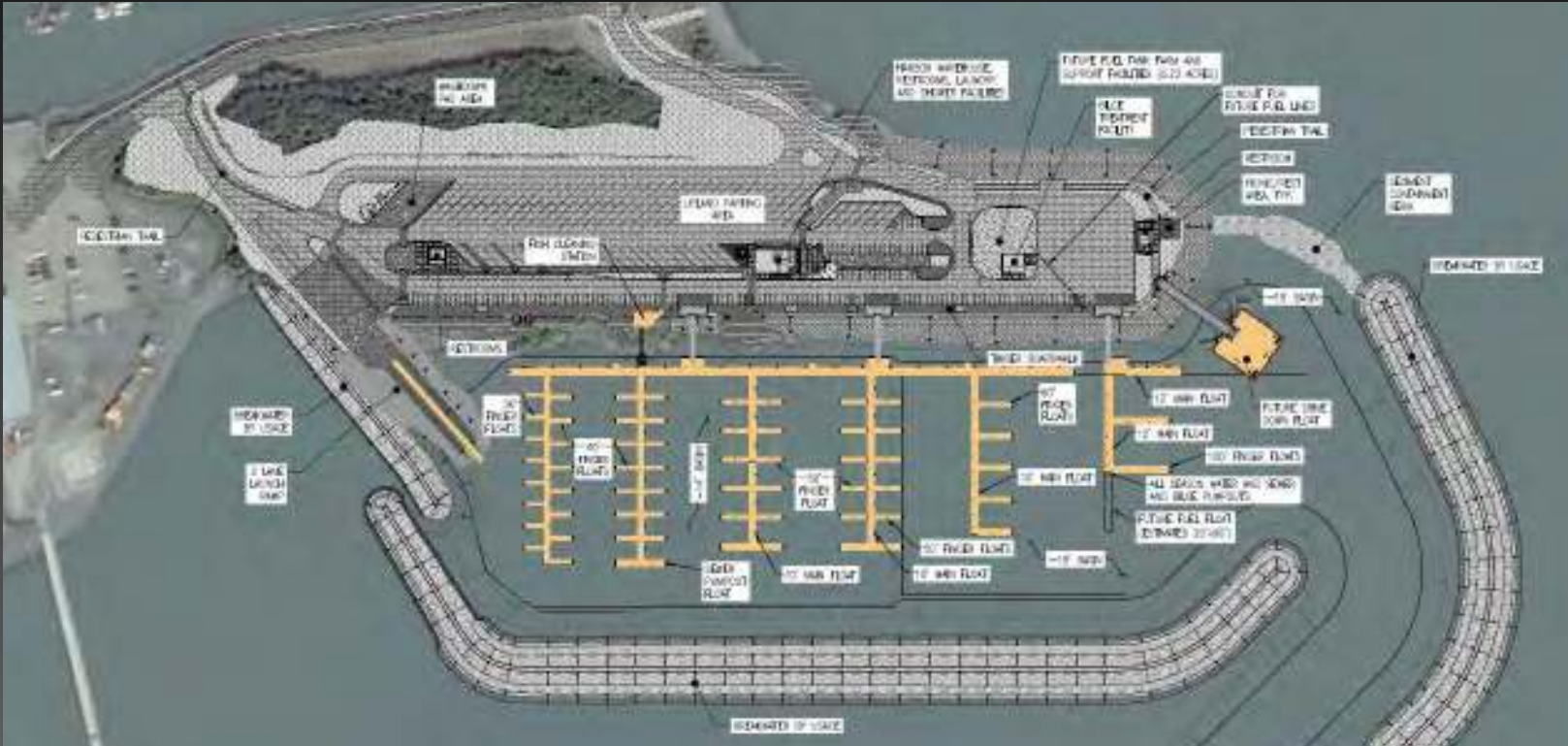
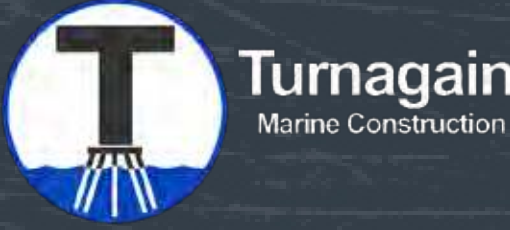


Buzz Scher, PE
Senior Geotechnical Engineer



**Kristi McLean, LEED AP
BD+C, CESCL**
Group Manager, Environmental

City of Valdez New Harbor Development



Kodiak Ferry Terminal and Dock Improvements



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Kodiak Ferry Terminal and Dock Improvements



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Seward Harbor Fish Cleaning Stations



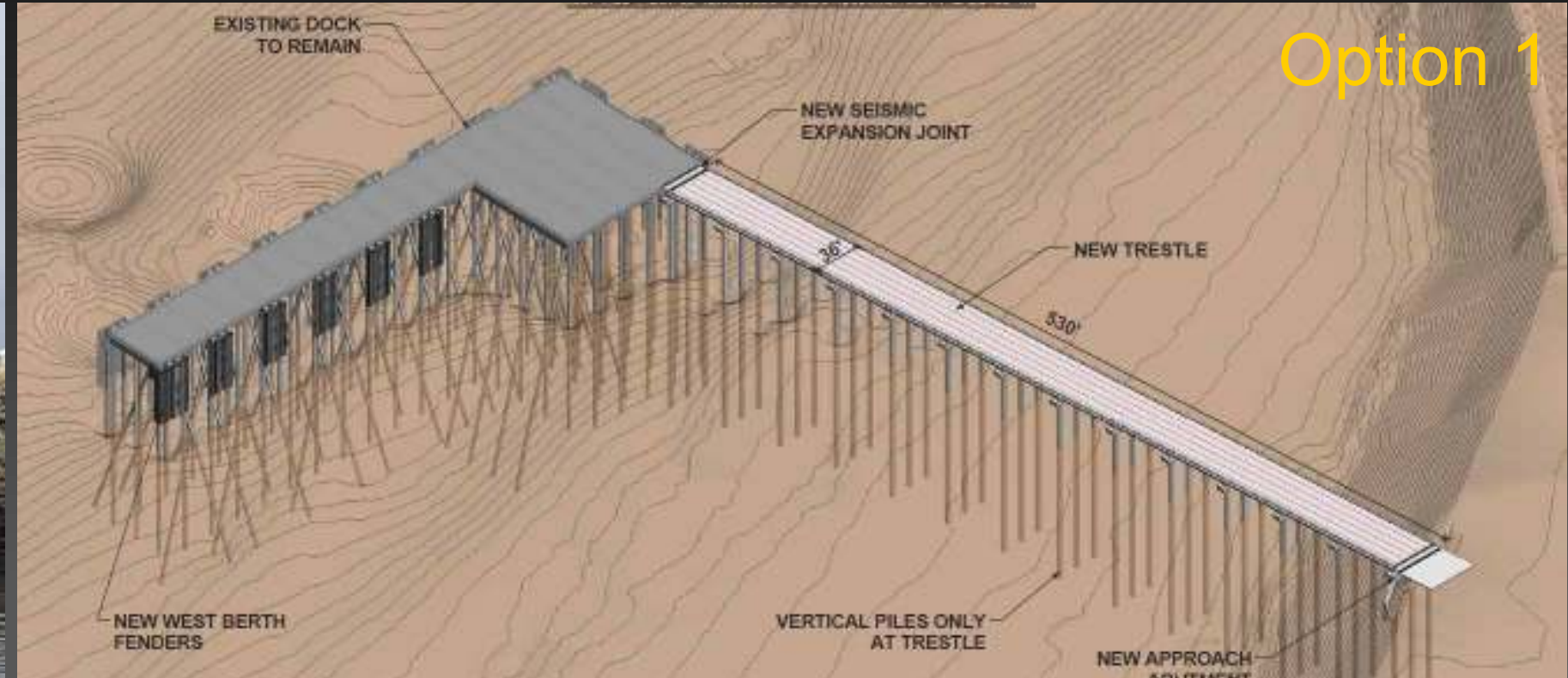
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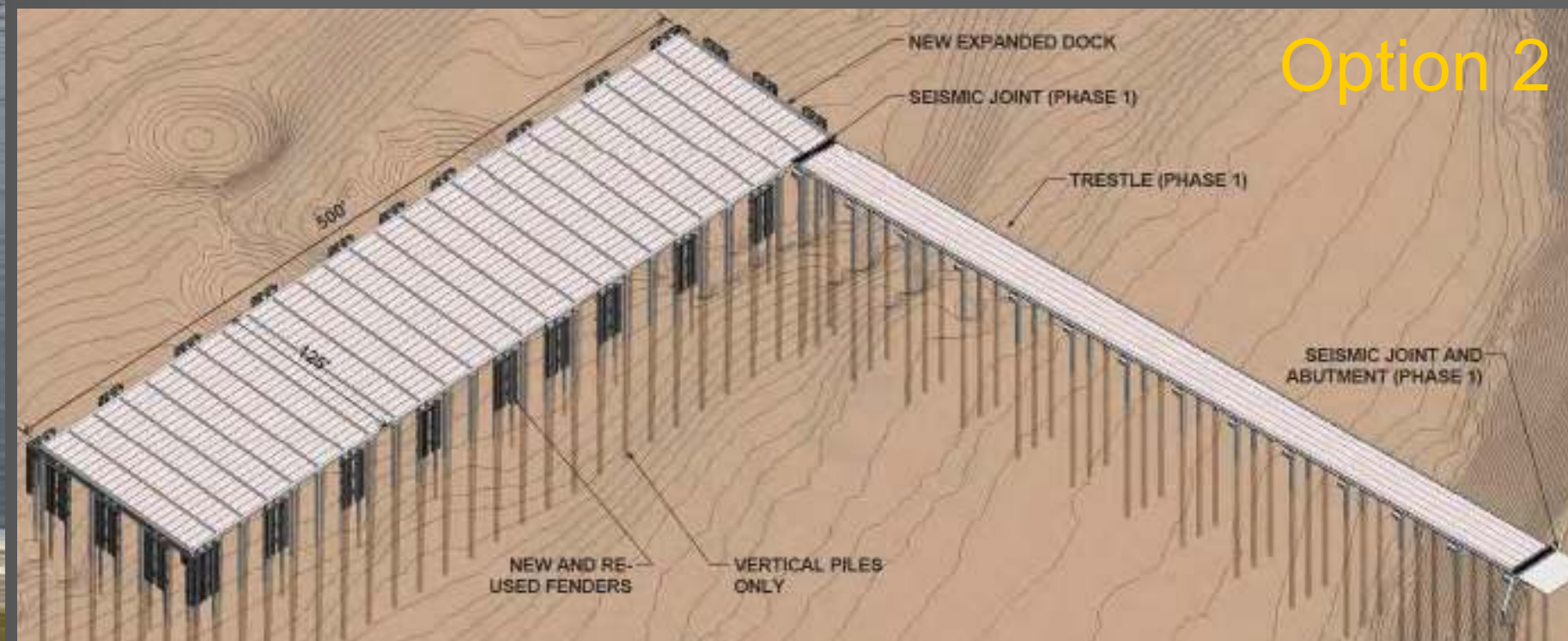
Homer Deep Water Dock Expansion Feasibility Study



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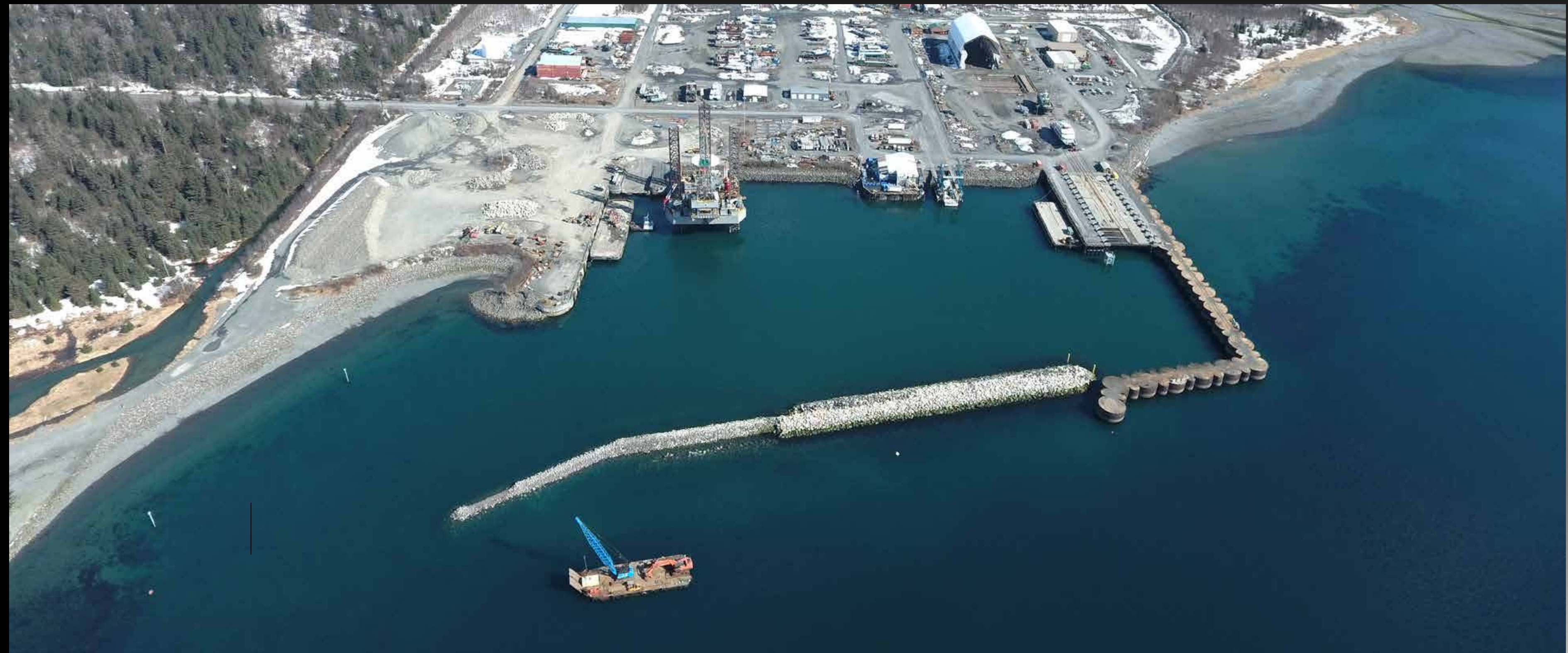
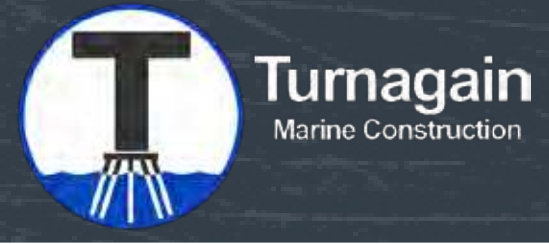


Option 1

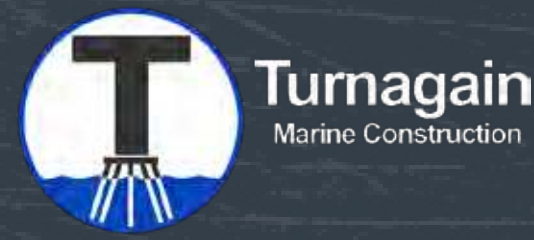


Option 2

Seward Marine Industrial Center Breakwater and Harbor Improvements



Kotzebue Shore Avenue Reconstruction and Seawall



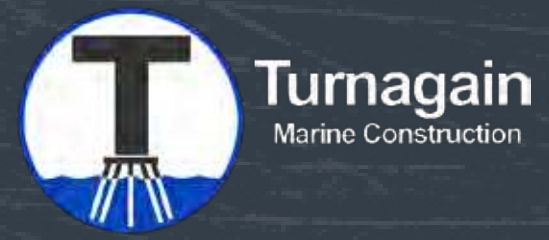
TURNAGAIN'S MARINE CONSTRUCTION TEAM



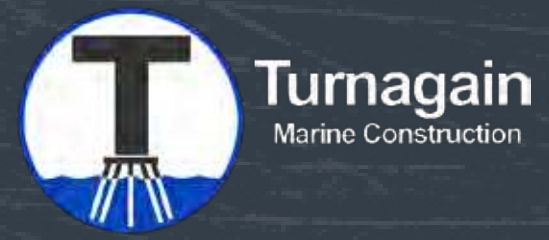
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Seward BCS Floats



Hoonah Berthing Facility



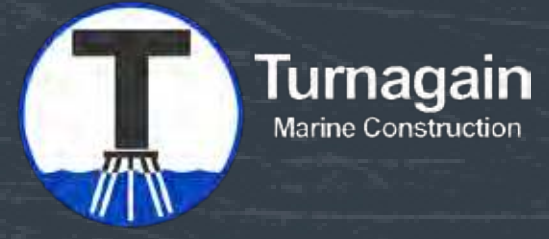
Kodiak Channel Transient Float



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Homer Ferry Terminal Improvements



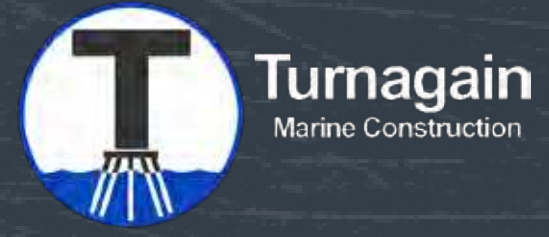
Kloosterboer South Dock



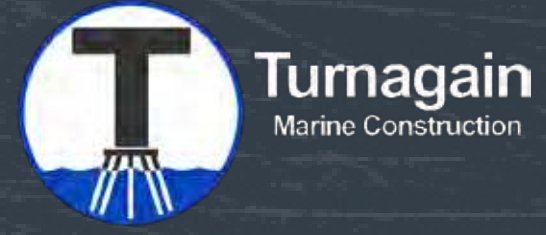
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Ouzinkie Municipal Dock



Gary Paxton Industrial Park Dock



*City & Borough of Sitka
Public Works Department*



**DESIGN-BUILD
REQUEST FOR PROPOSAL
For
Gary Paxton Industrial Park Multi-Purpose Dock
Sawmill Cove, Sitka, Alaska**

**Project Number:
90748**

Prepared By:
Windward Project Solutions, LLC
121 West 4th Ave, Unit 213
Anchorage, Alaska 99501
907/843-2344

21 June 2016

§ Design Build RFP

§ Commercial Dock Facility

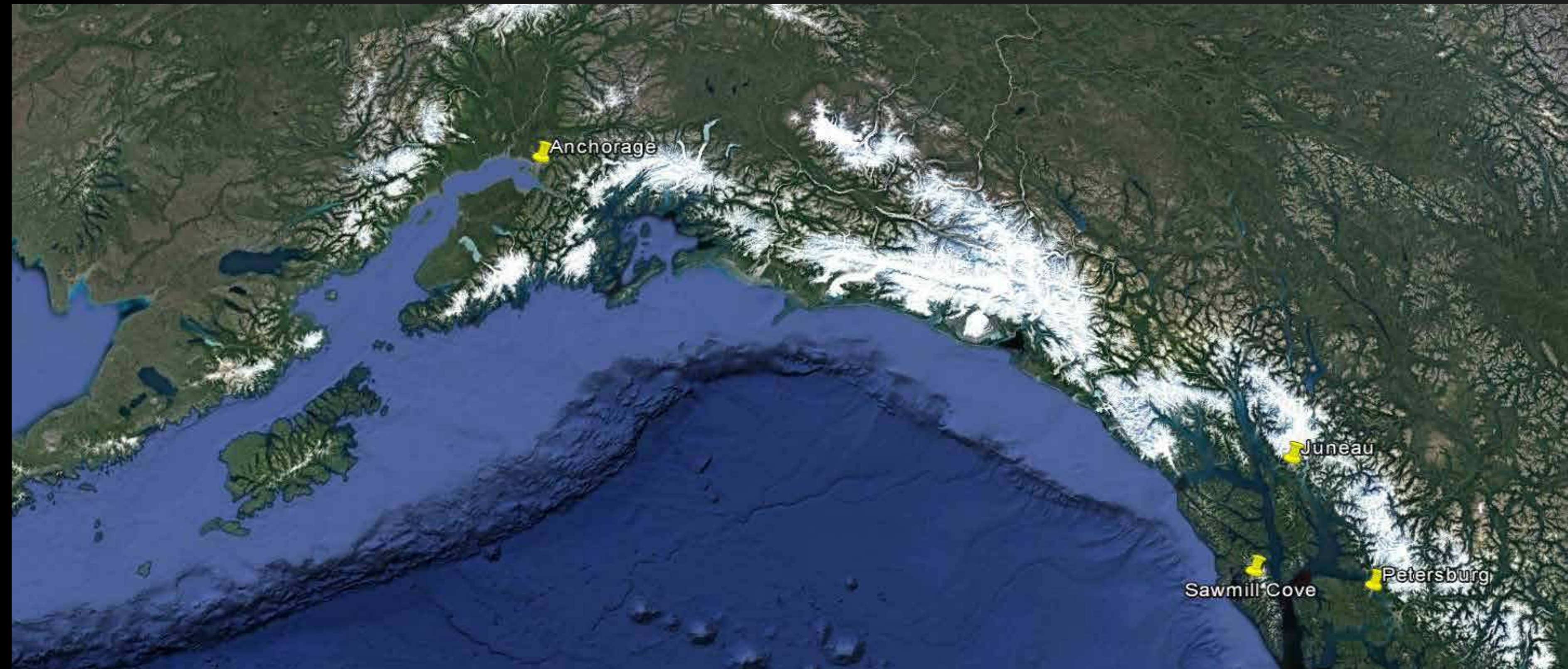
§ Owner Budget = \$6,800,000

§ Proposers Compete on Value

Sawmill Cove, Sitka AK



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Sawmill Cove, Sitka AK



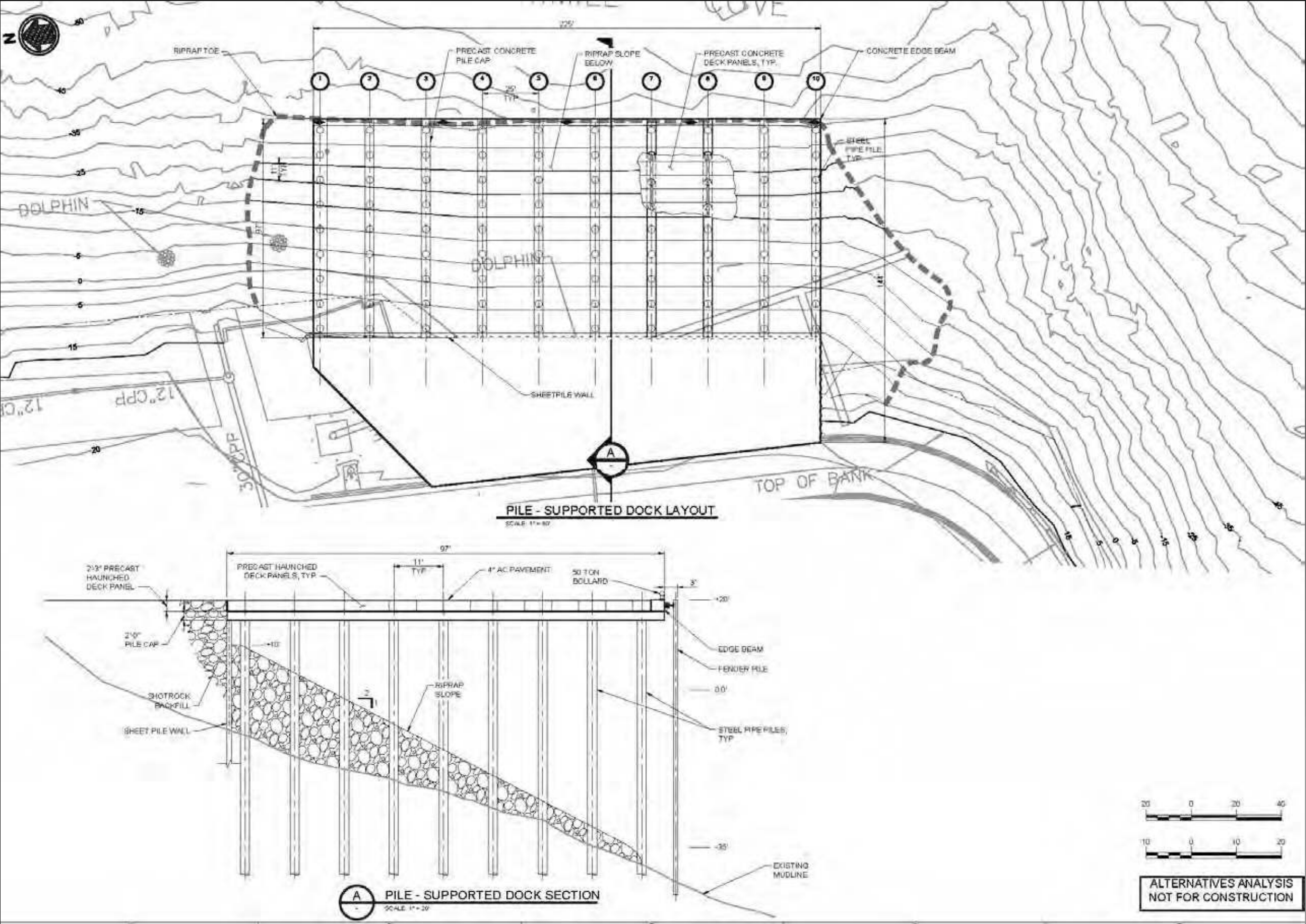
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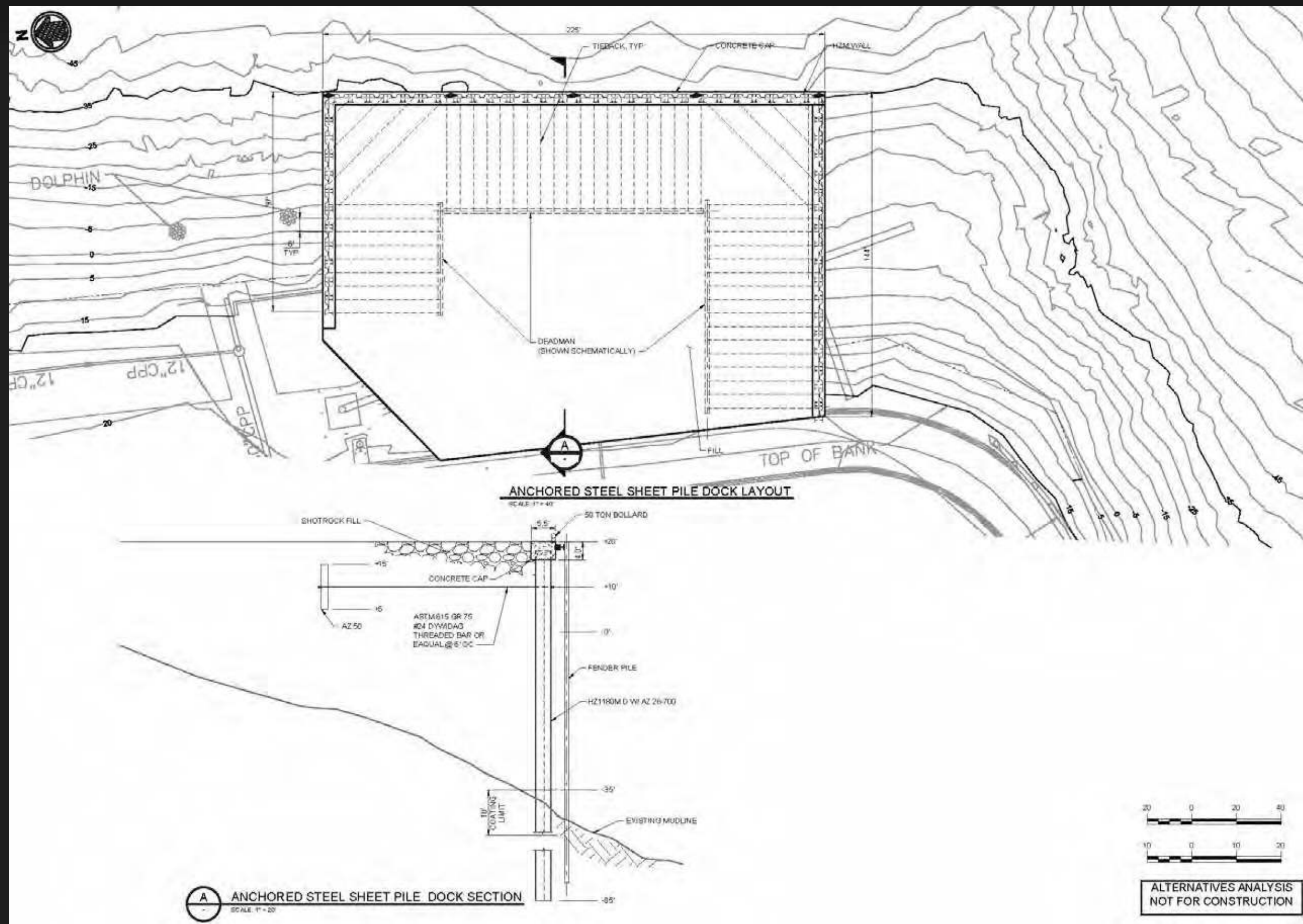
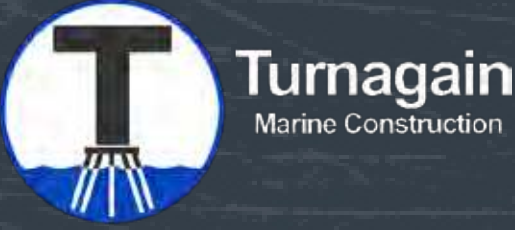
Pile Supported Fixed Dock



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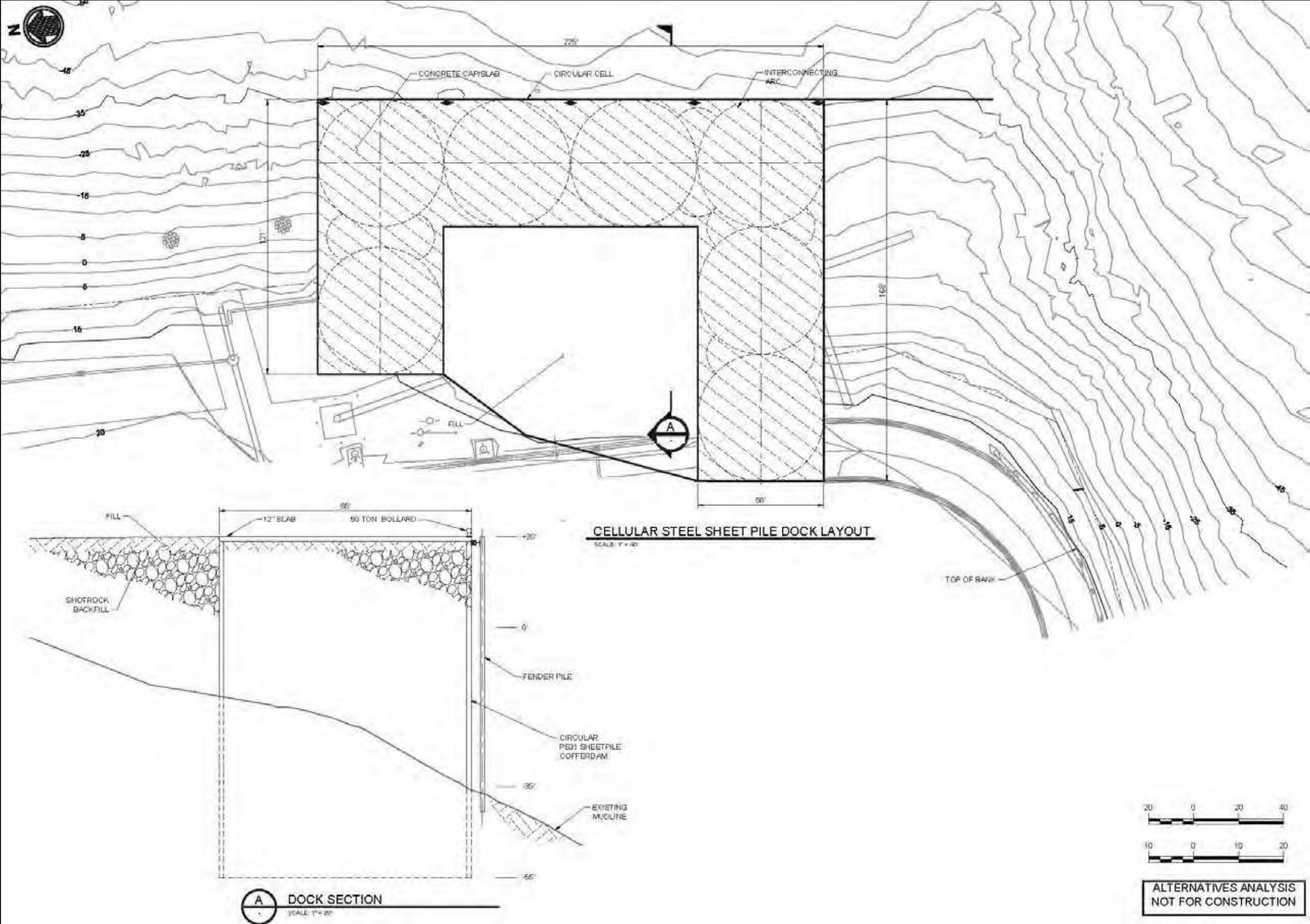
Steel Sheet Pile Dock



Cellular Steel Sheet Pile Dock



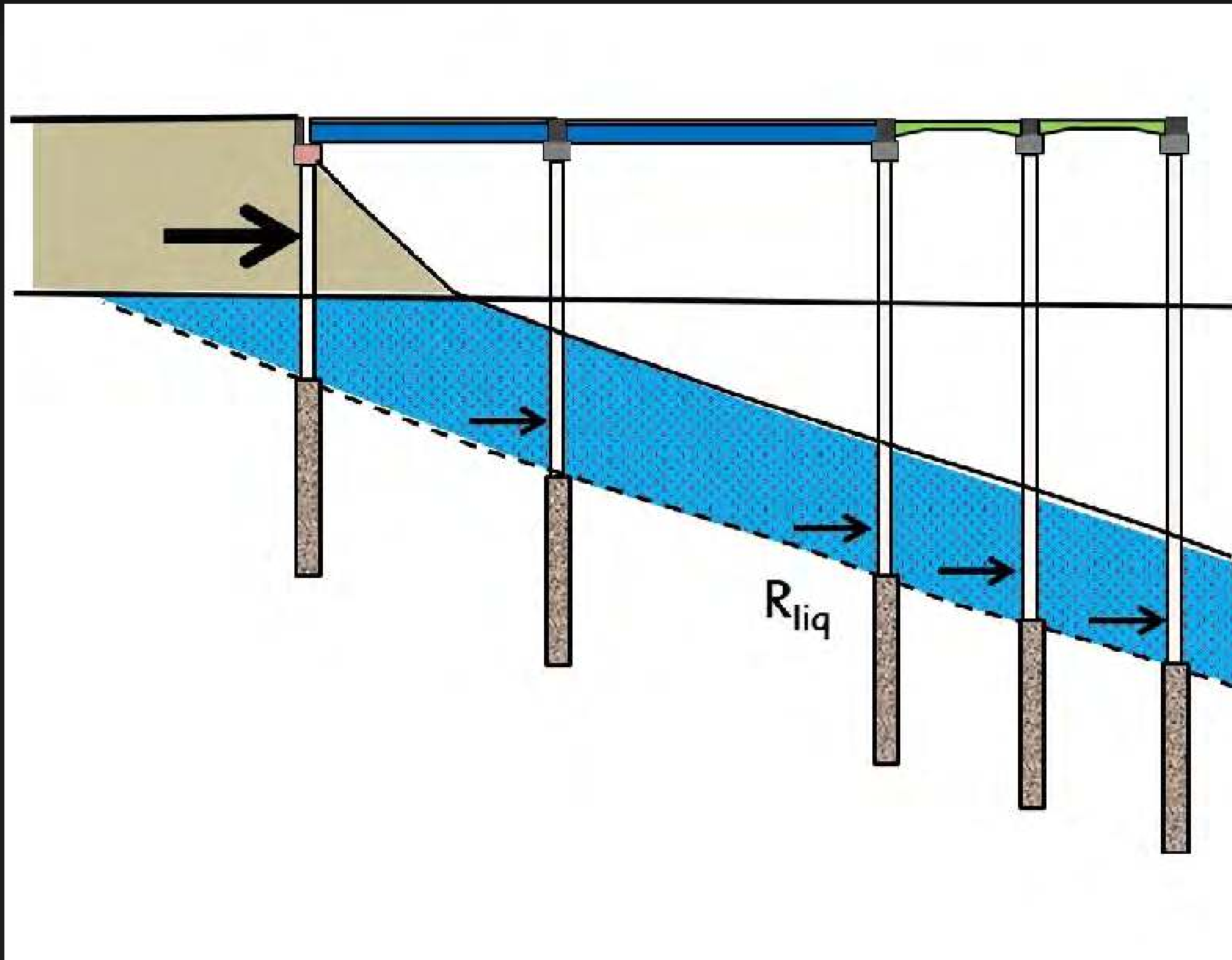
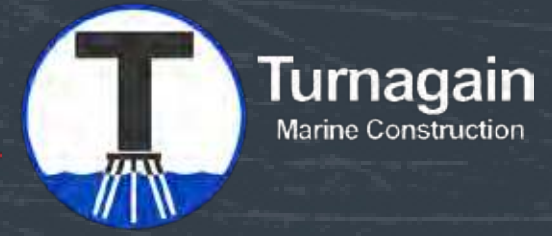
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- § “Utilize an innovative approach when developing Alternative Options Proposals.....”
- § “Maintain an alignment with Project Goals.....”
- § “Not limited by Project Requirements.....”

Design Challenges

Liquefaction and Lateral Soil Spreading

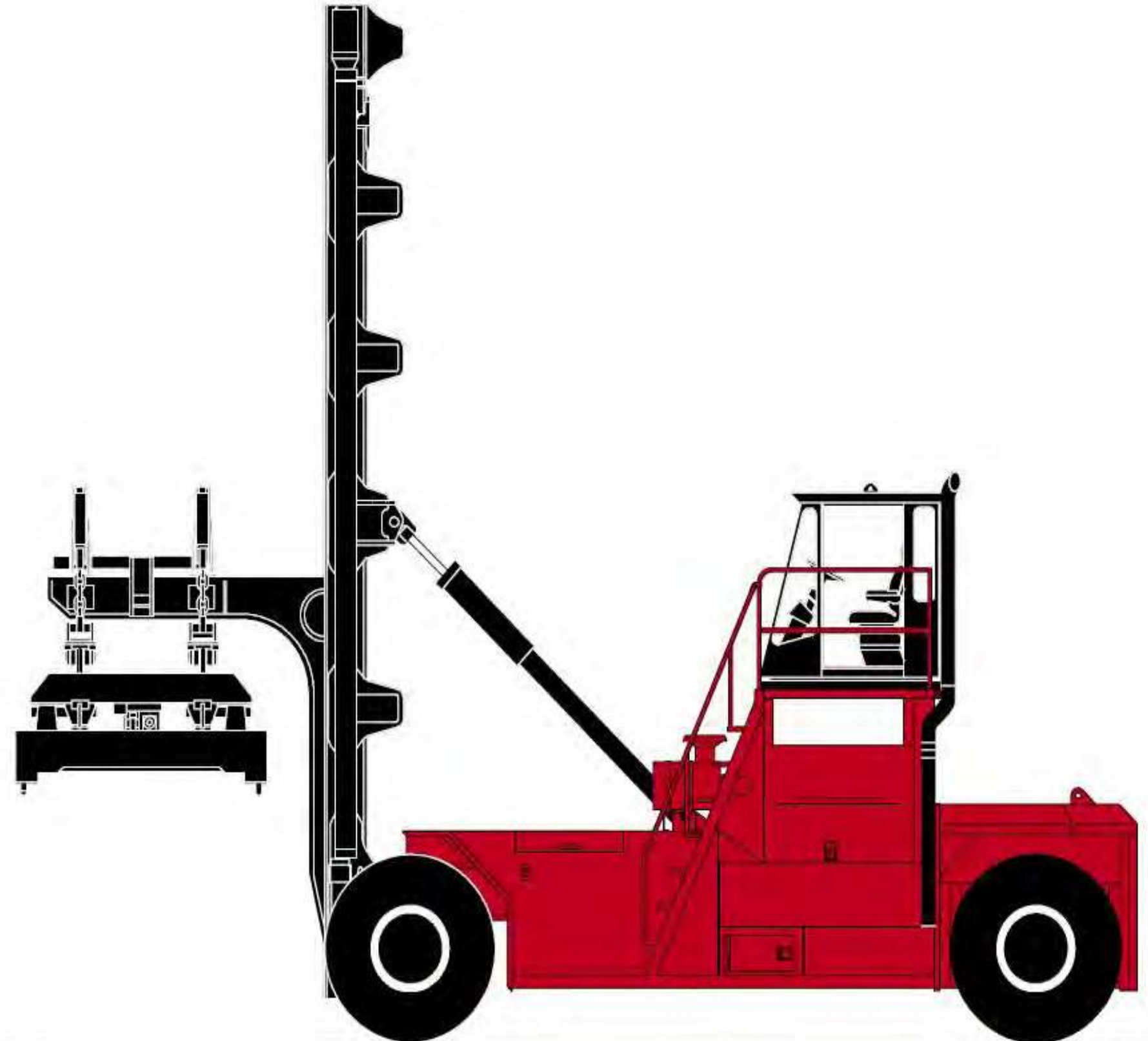


Design Challenges

Corrosion & Design Forklift



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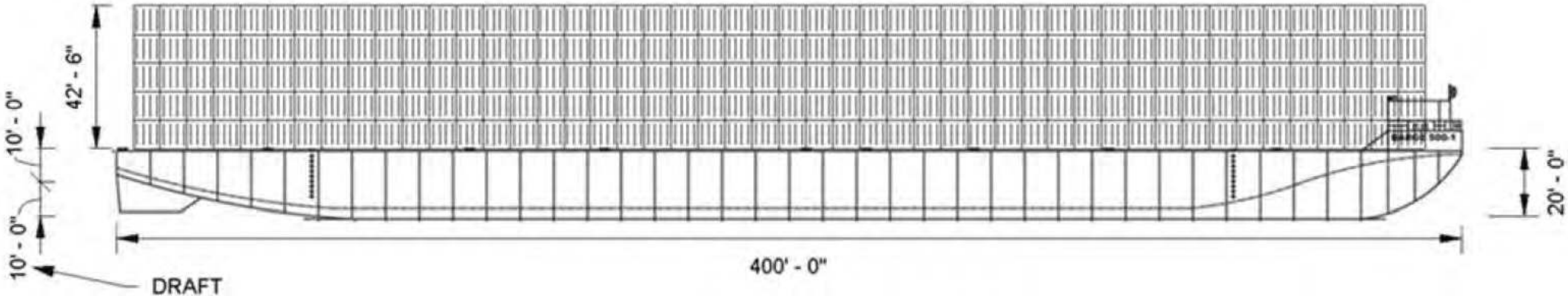
Design Challenges

Design Vessel



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400' X 100' CARGO BARGE w/ 950 TEU CAPACITY

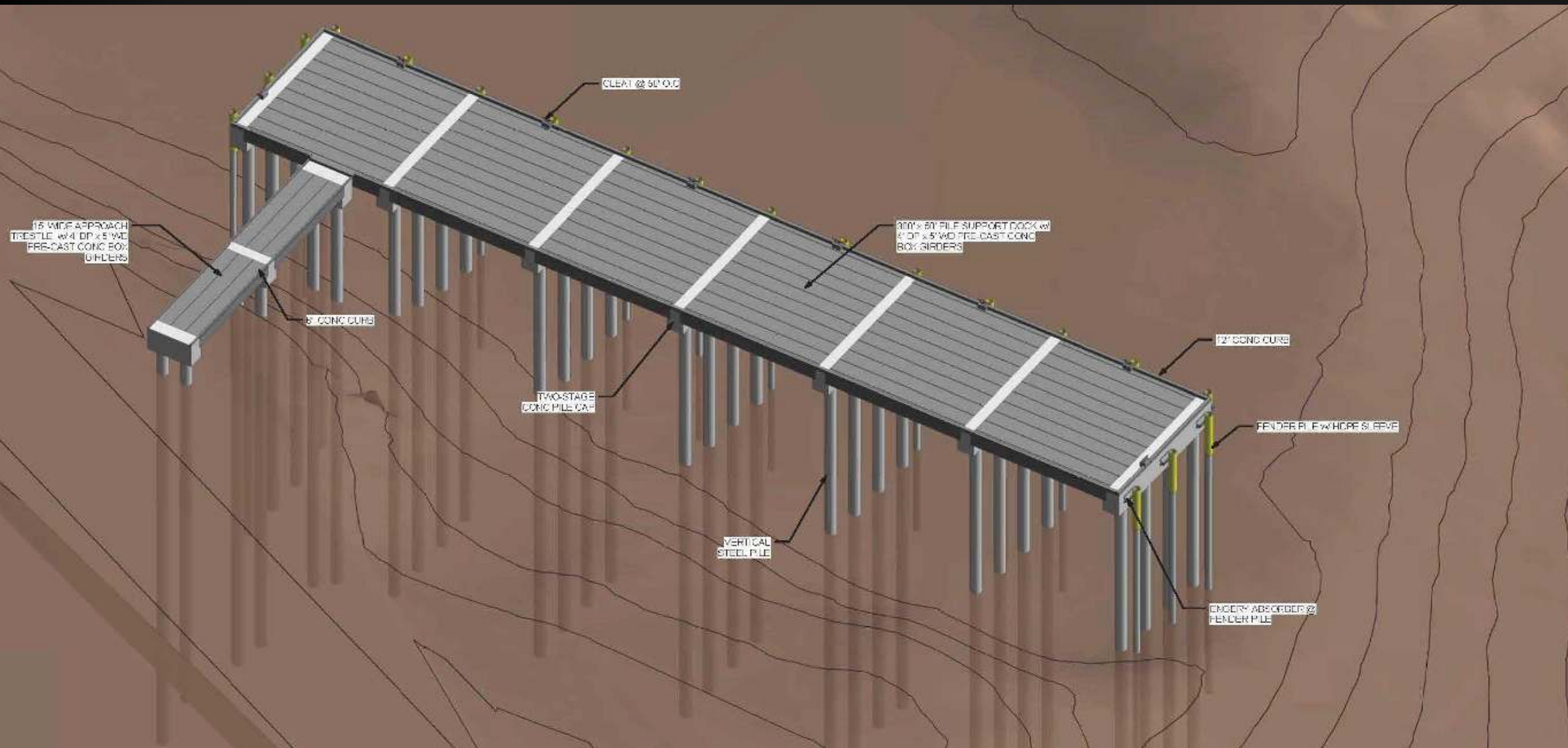


Fixed Dock

\$7,400,000

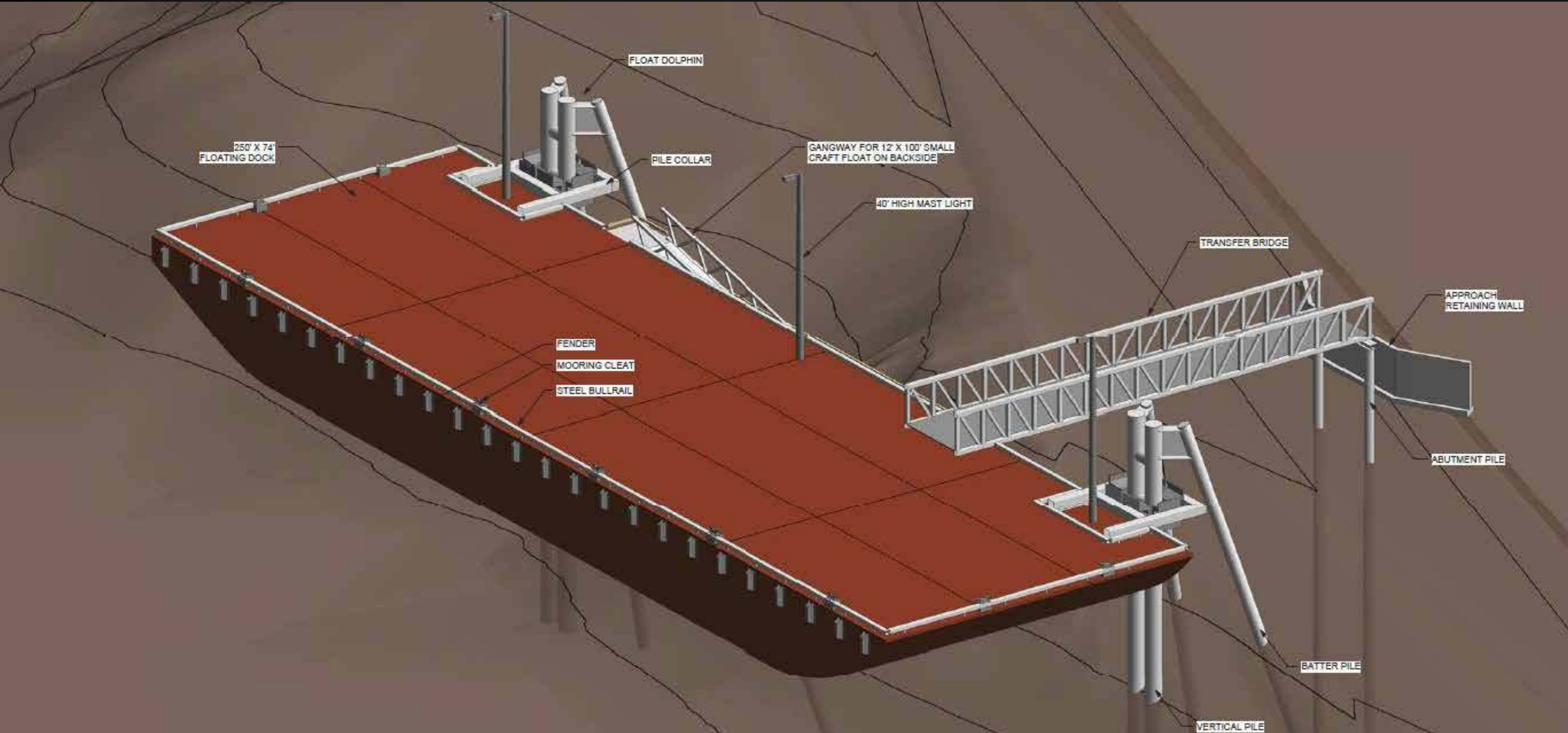


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Floating Dock Alternative

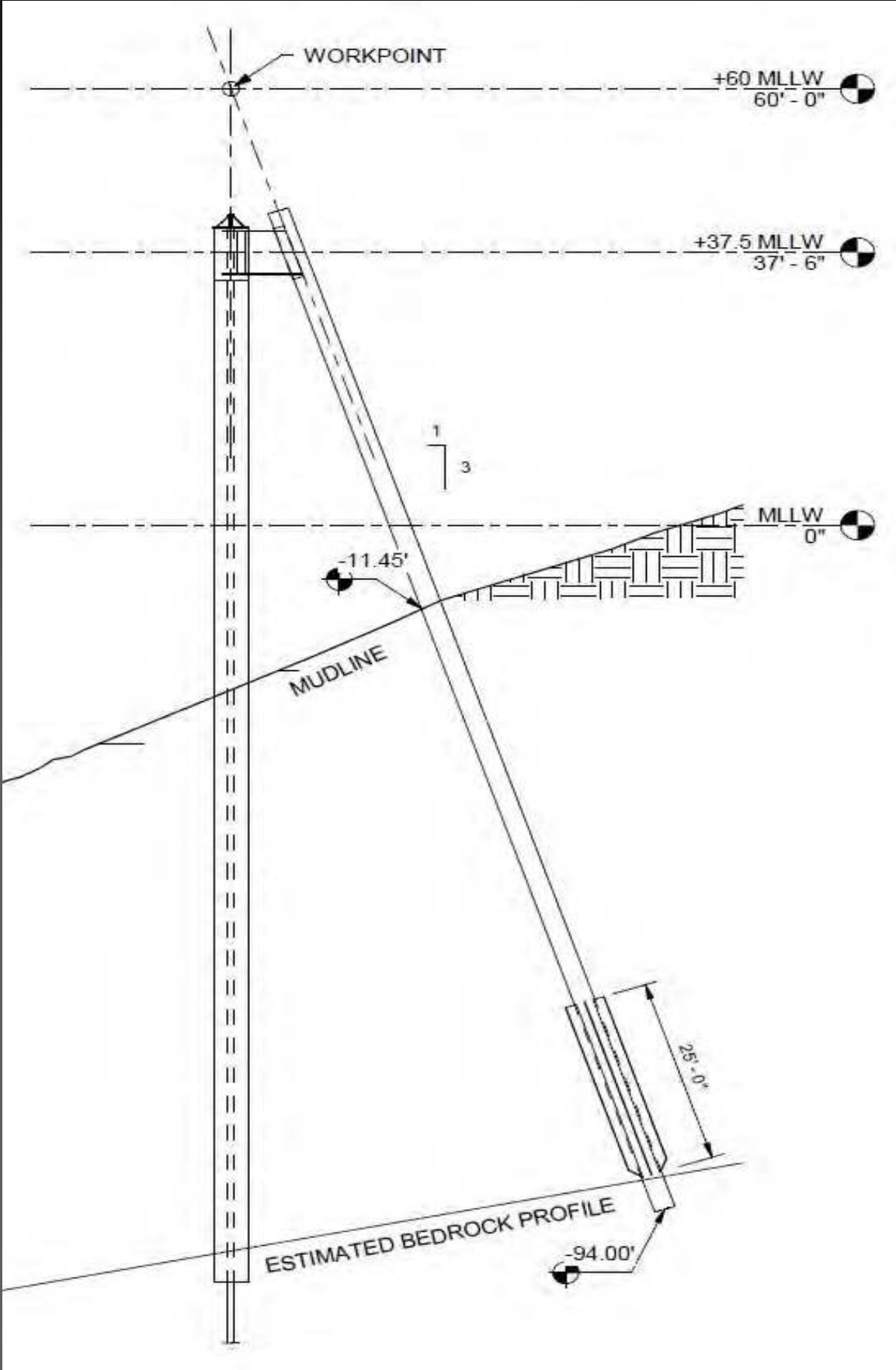
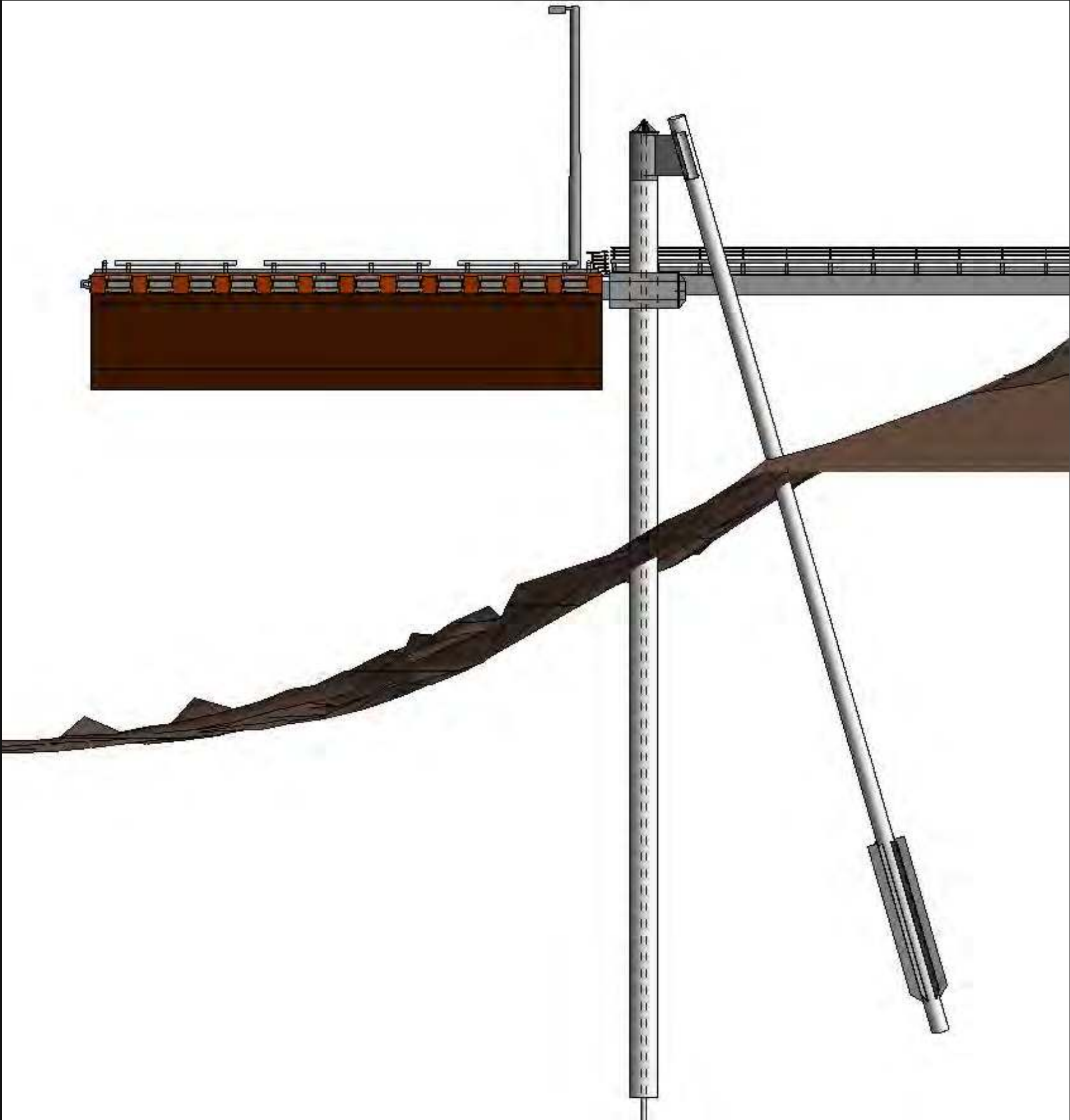
\$6,800,000



Floating Dock Alternative



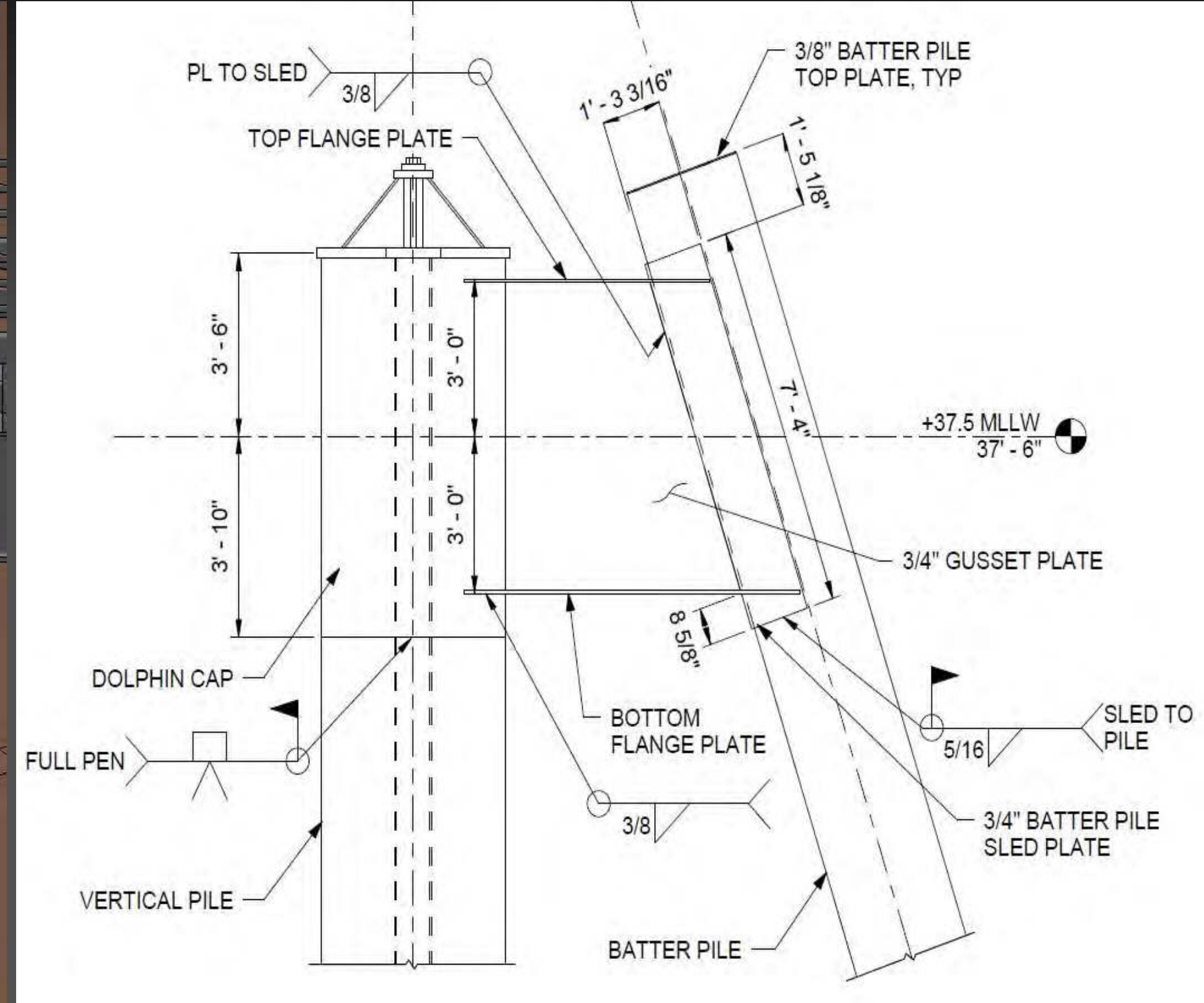
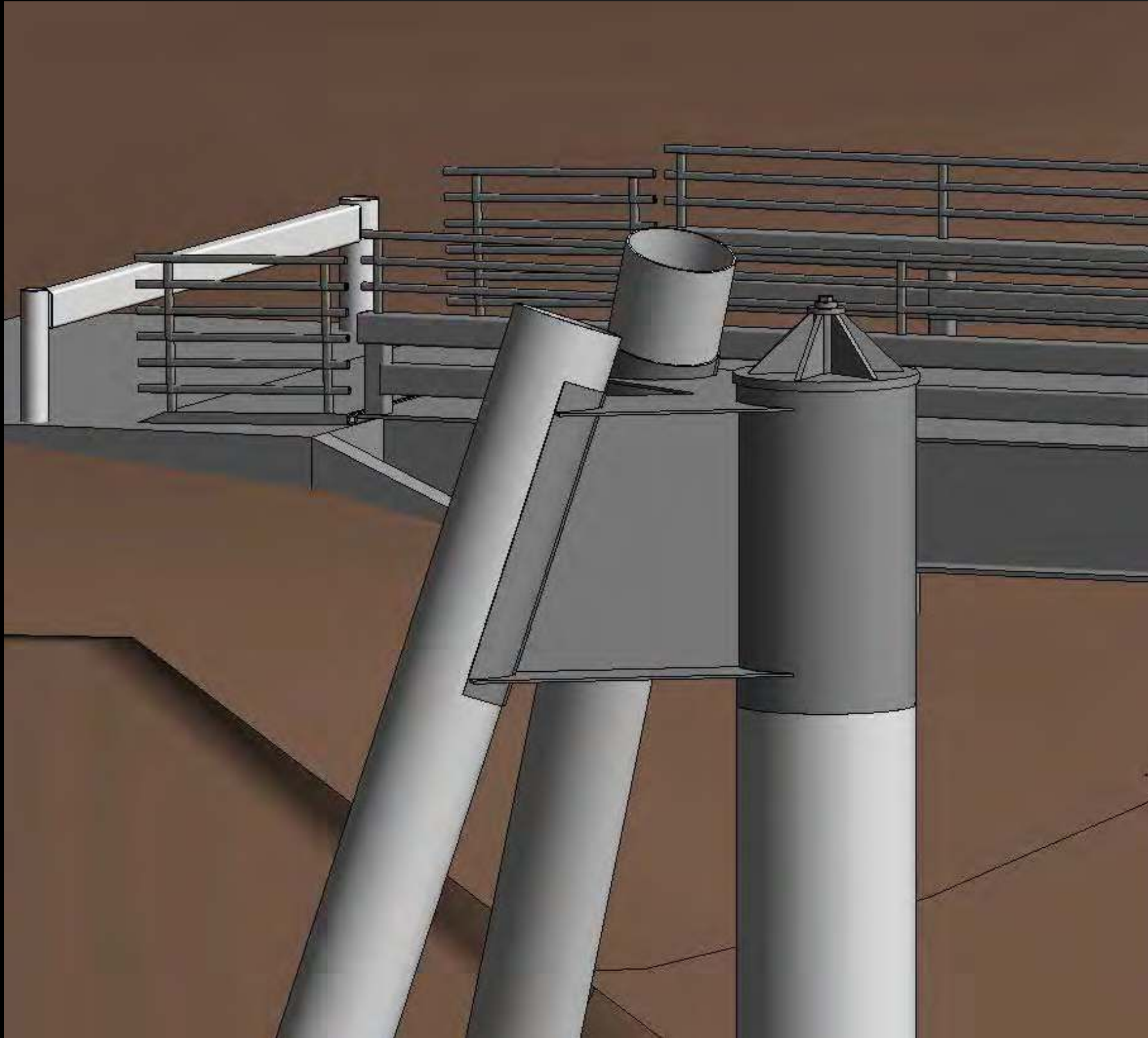
Dolphin Elevation



Dolphin Cap



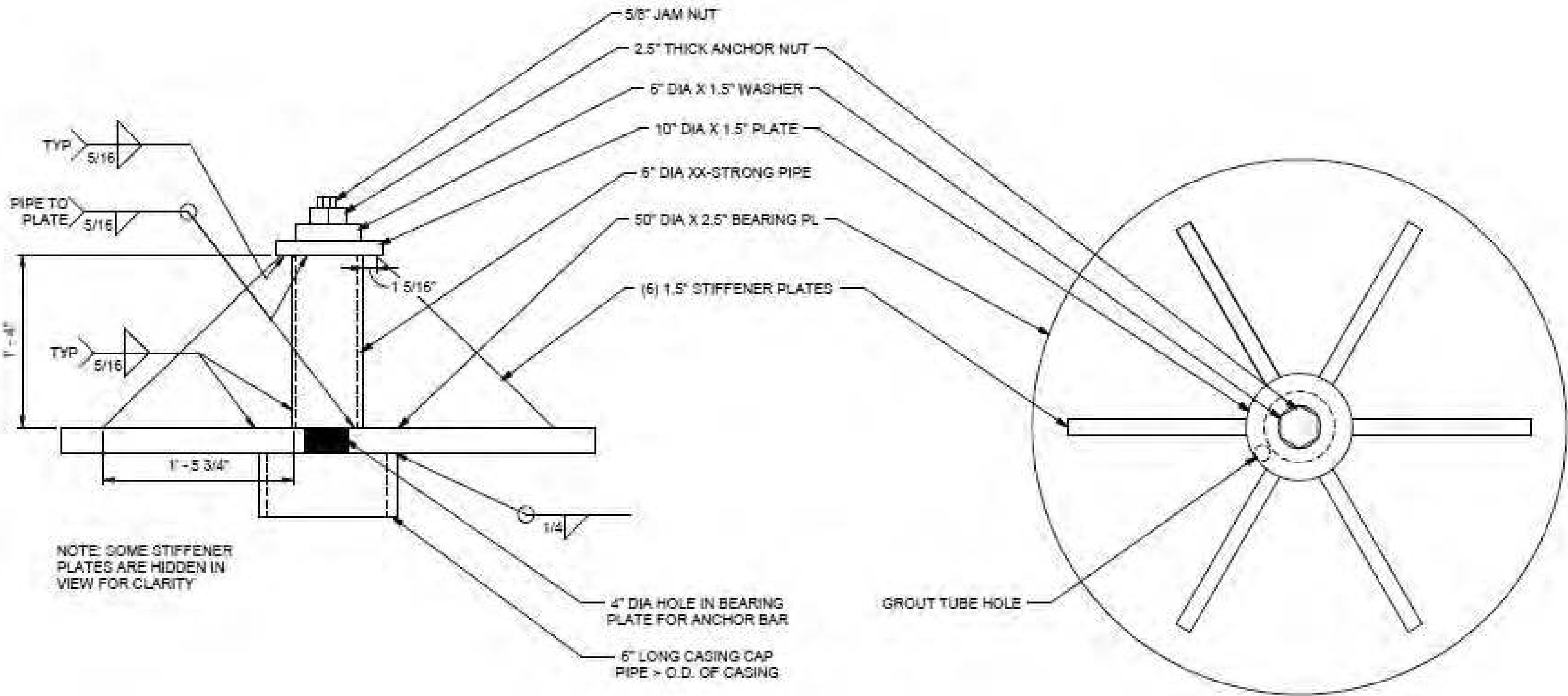
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Dolphin Cap

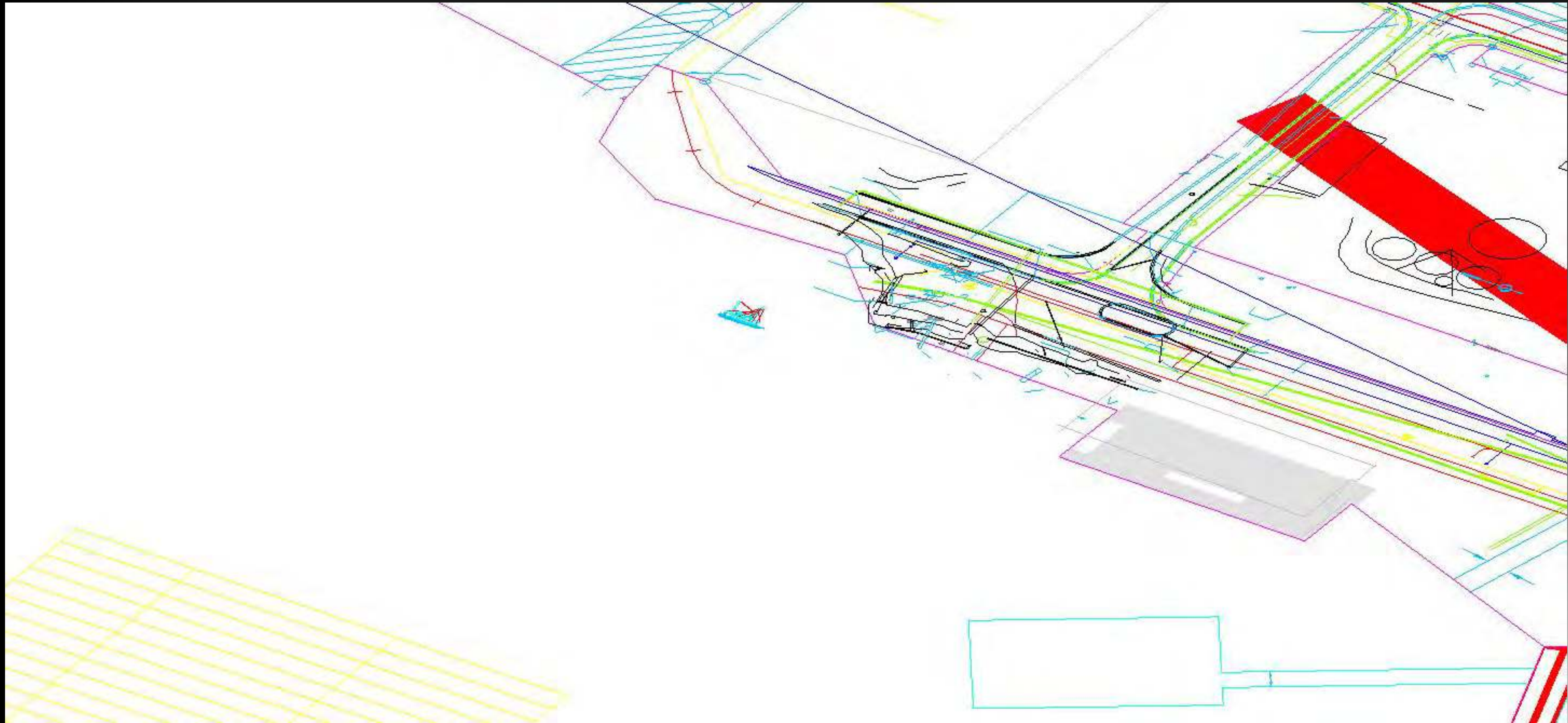


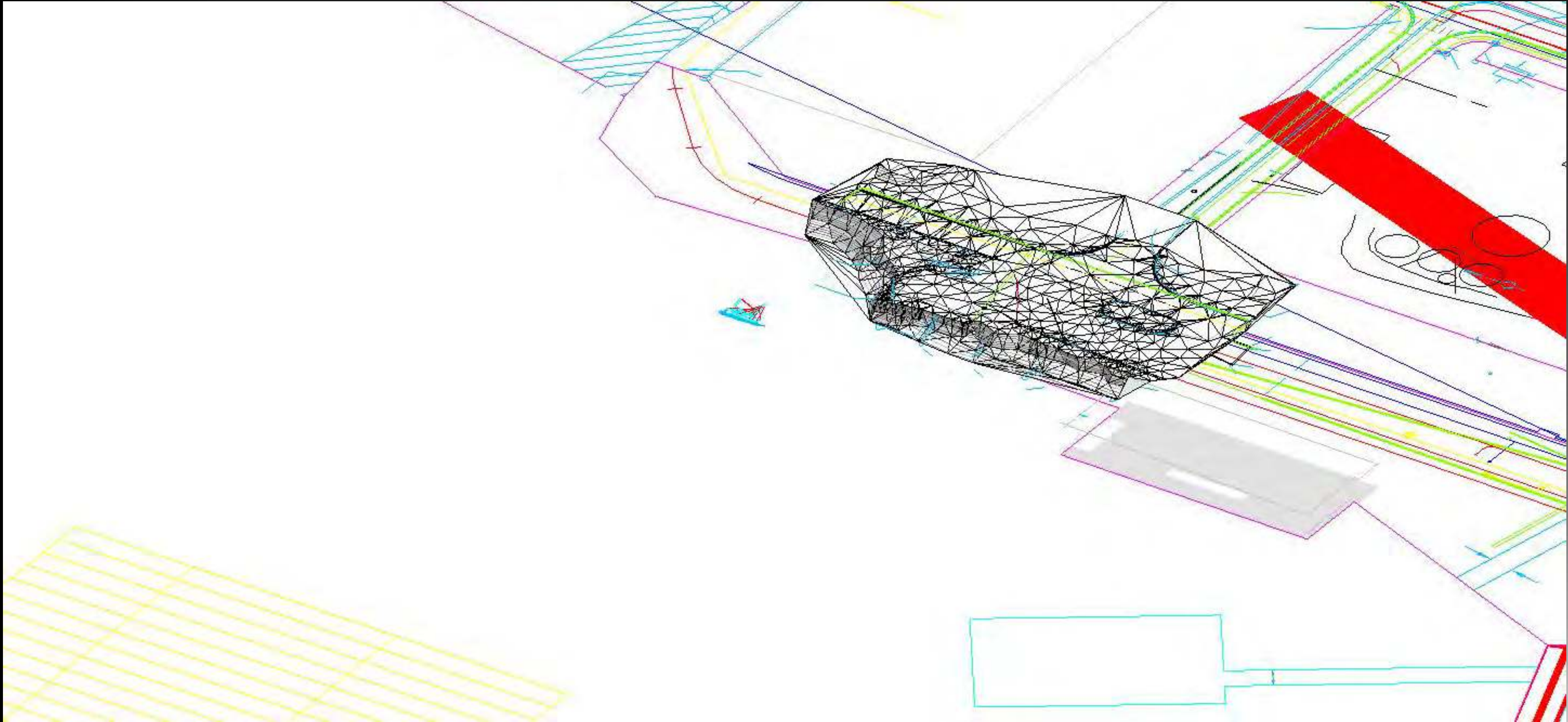
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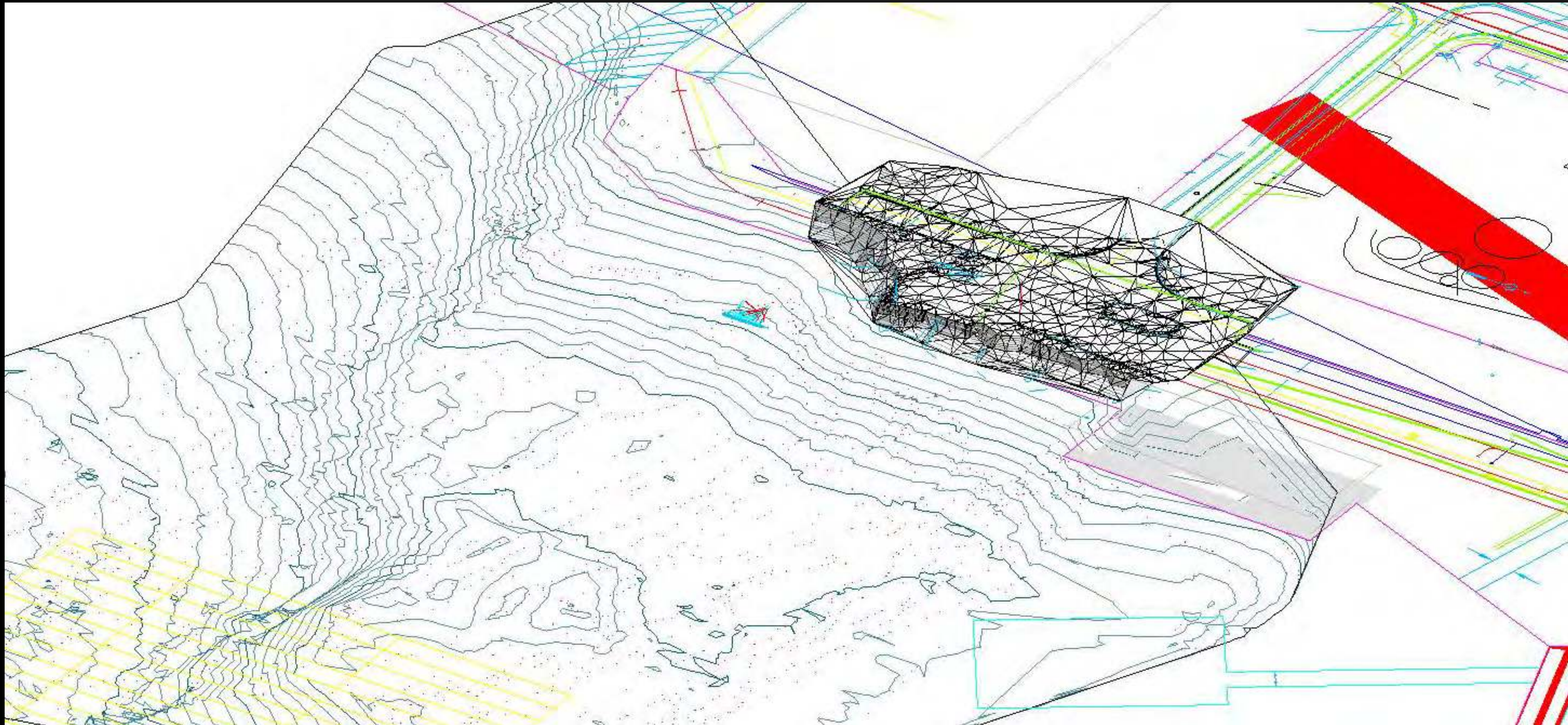


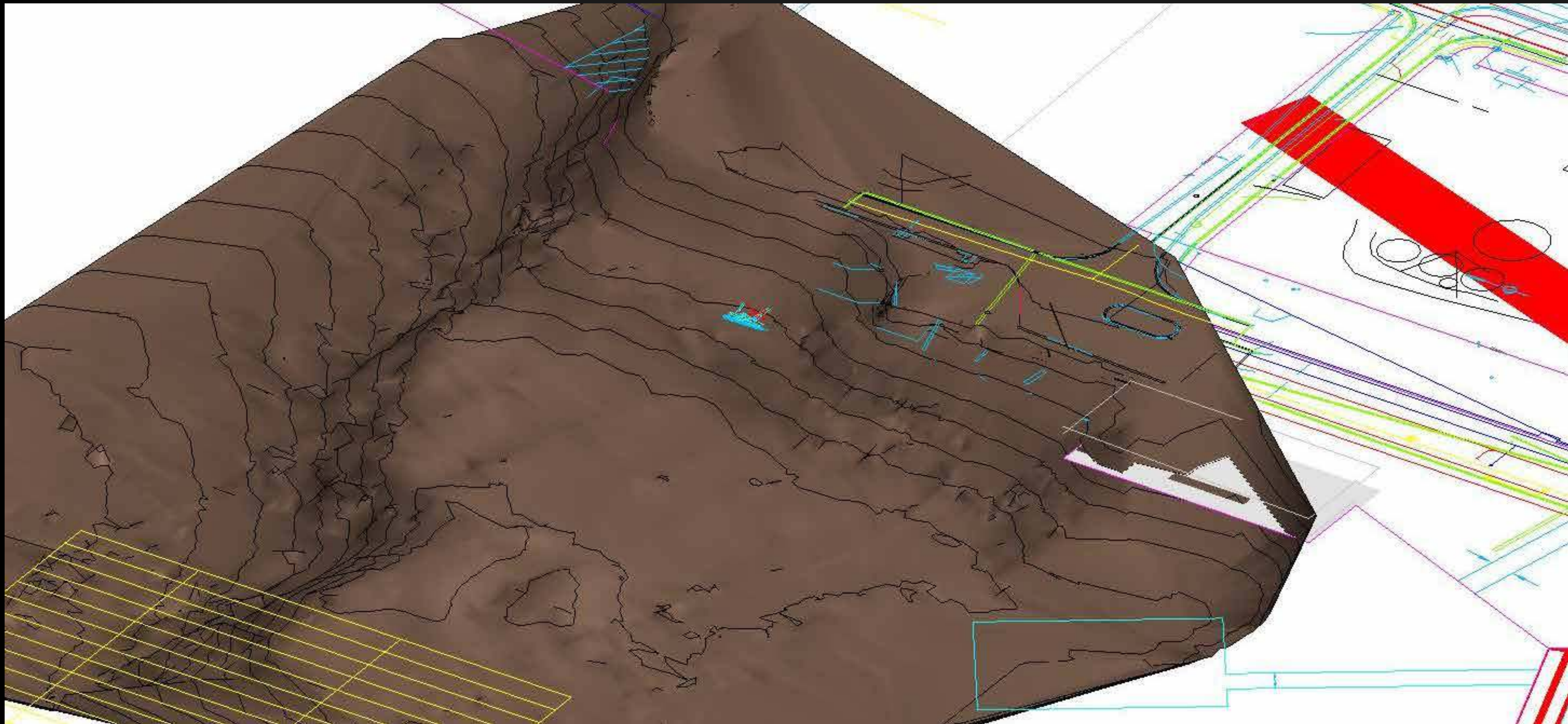


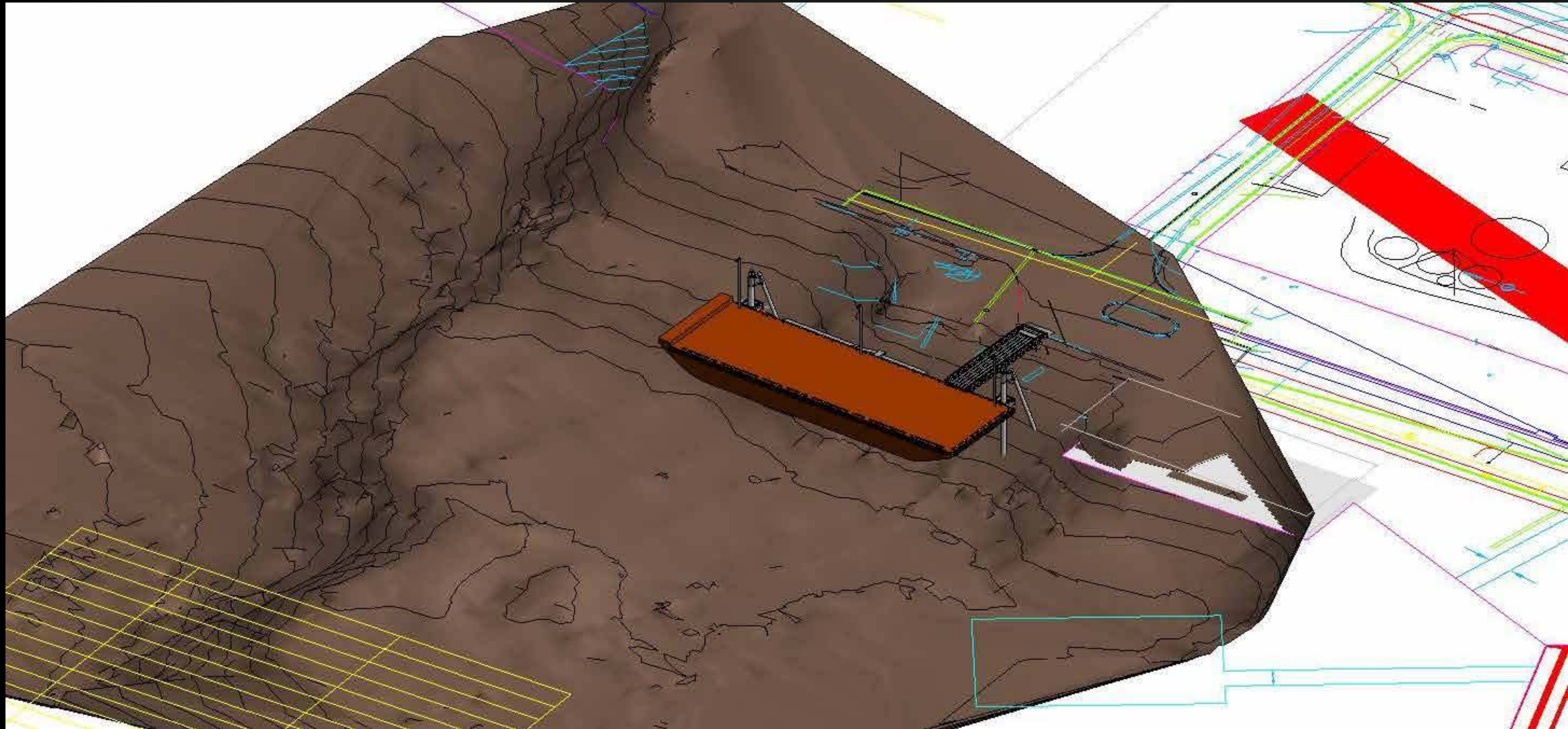
- § Bidders compete on value
- § Efficient Design
- § Leverage Contractor's Equipment & Experience
- § Designers Can Focus on Key Design Elements



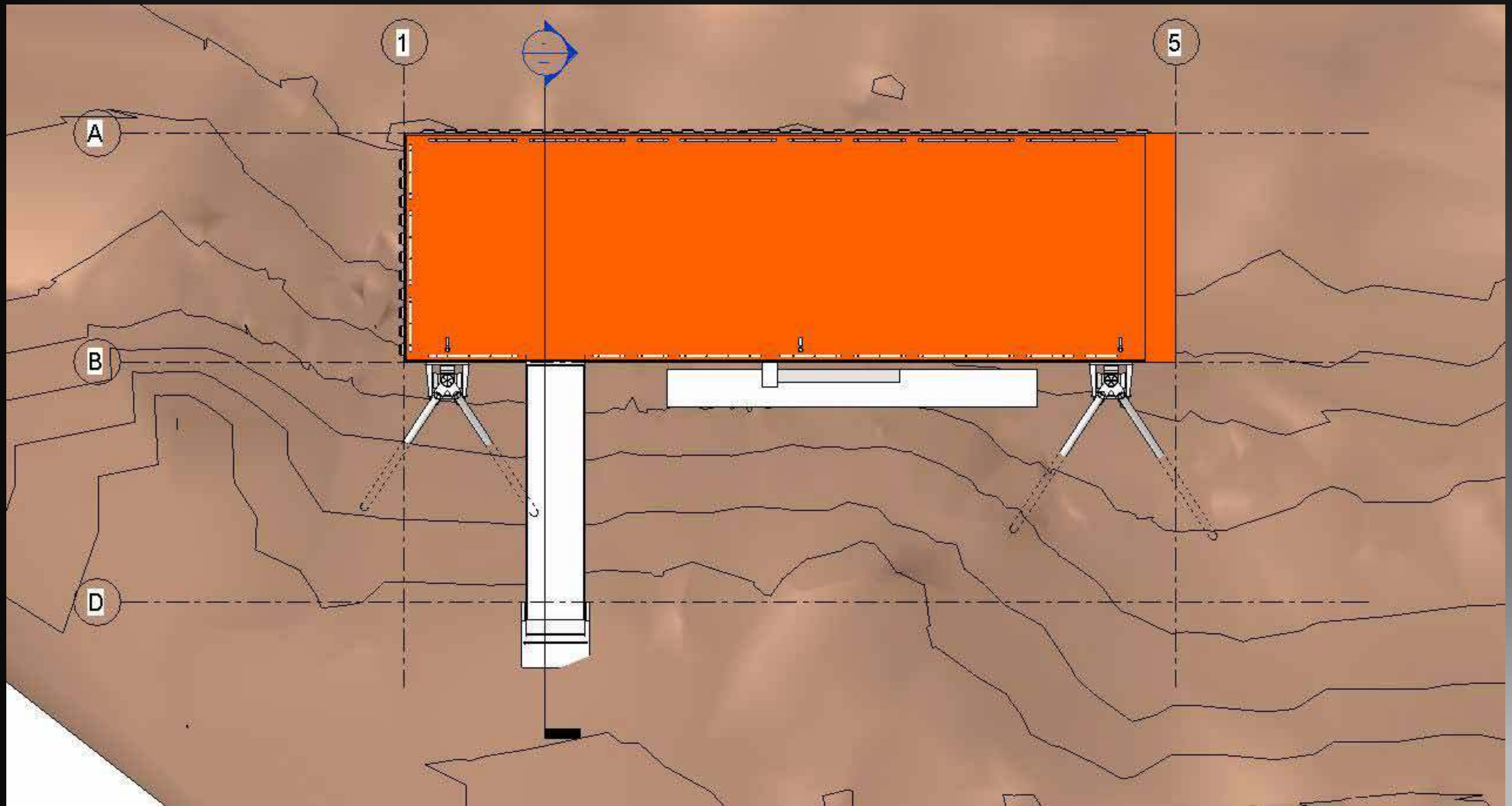


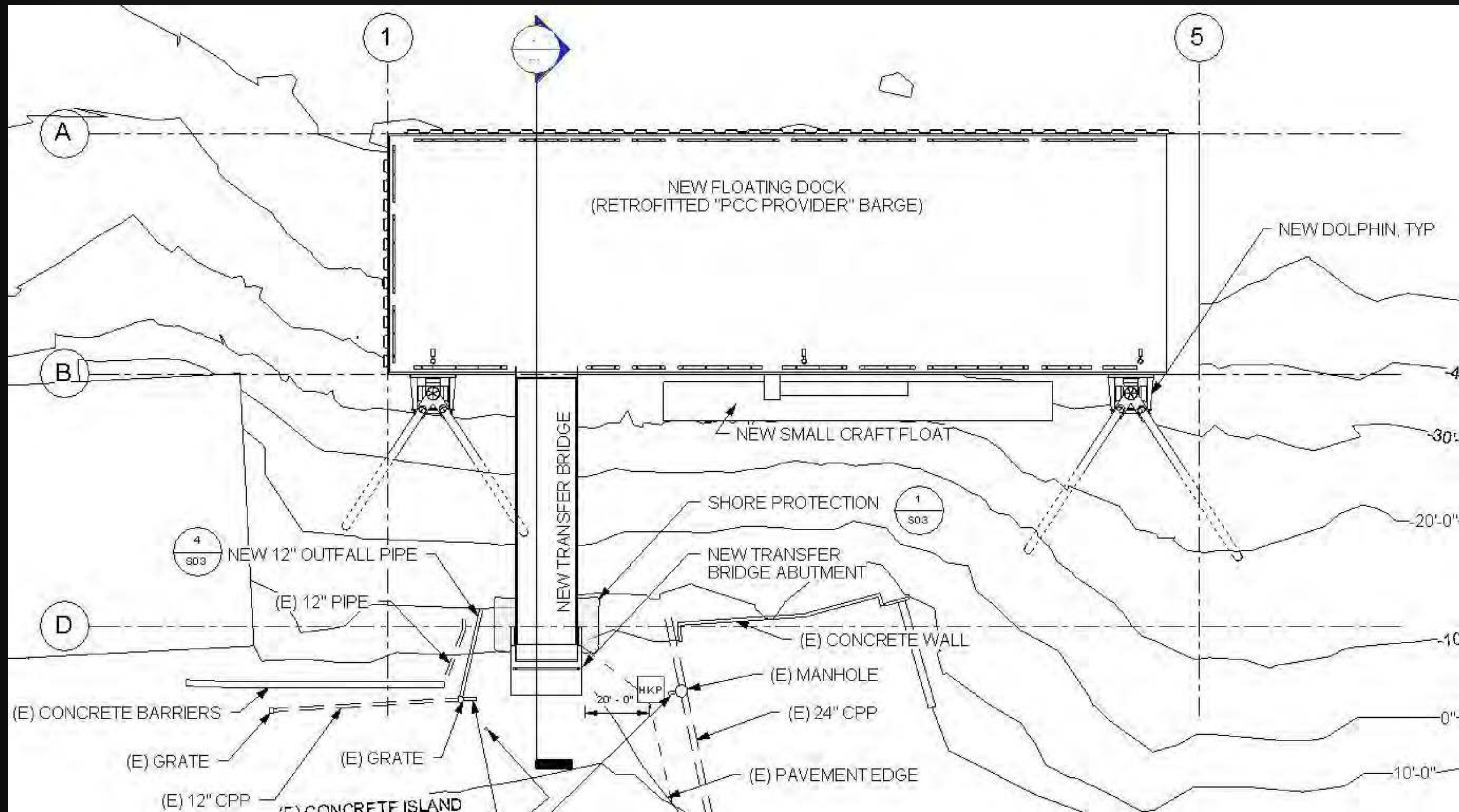


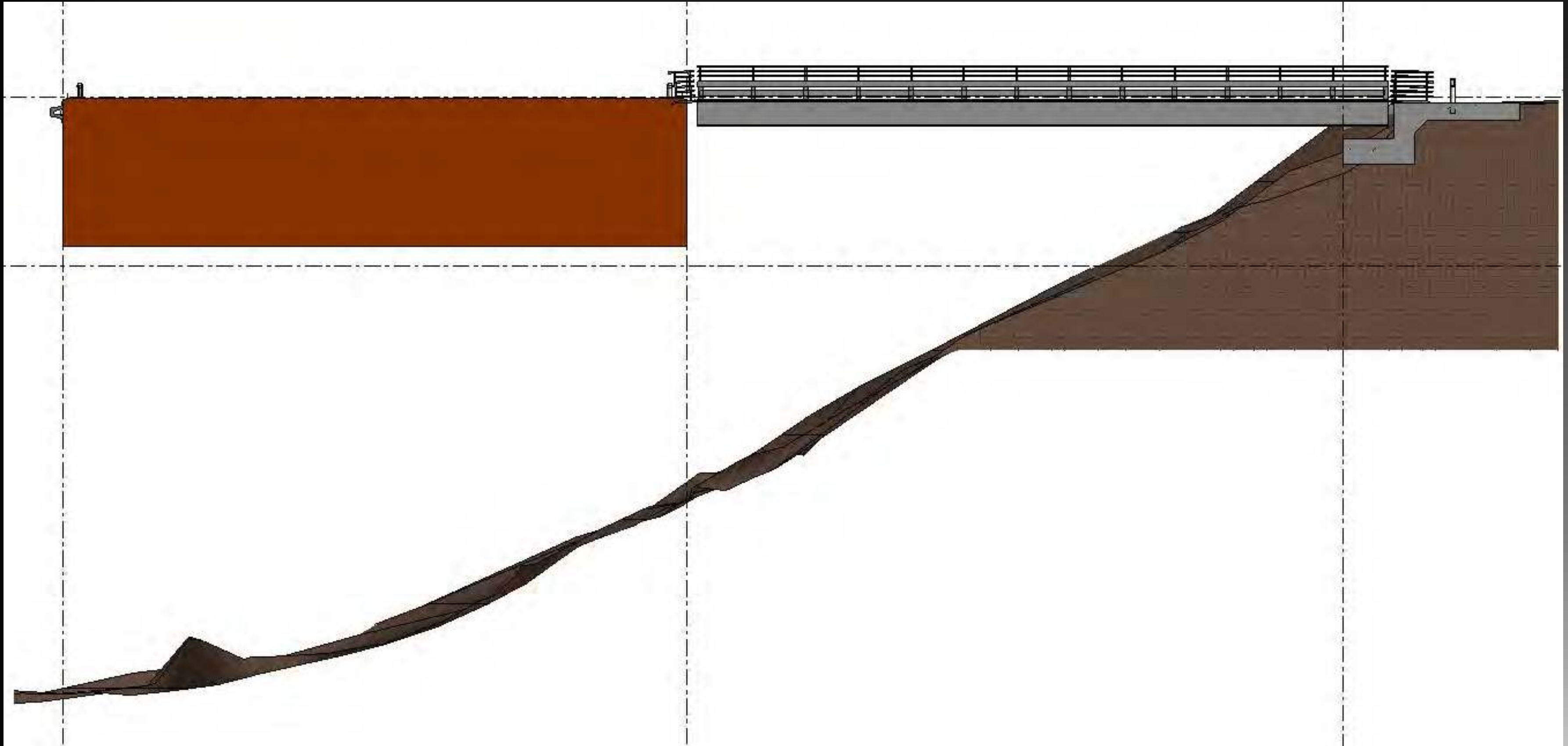


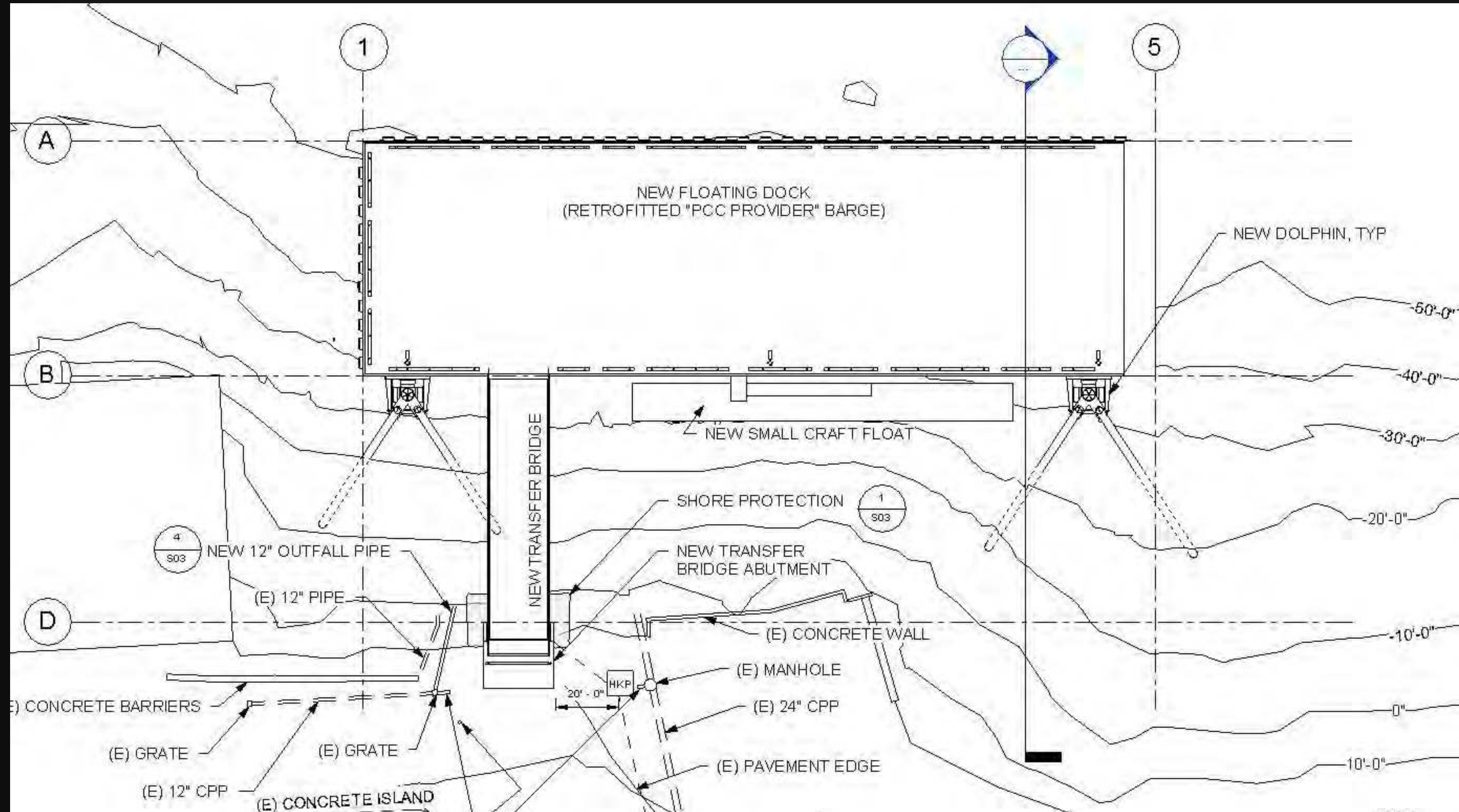








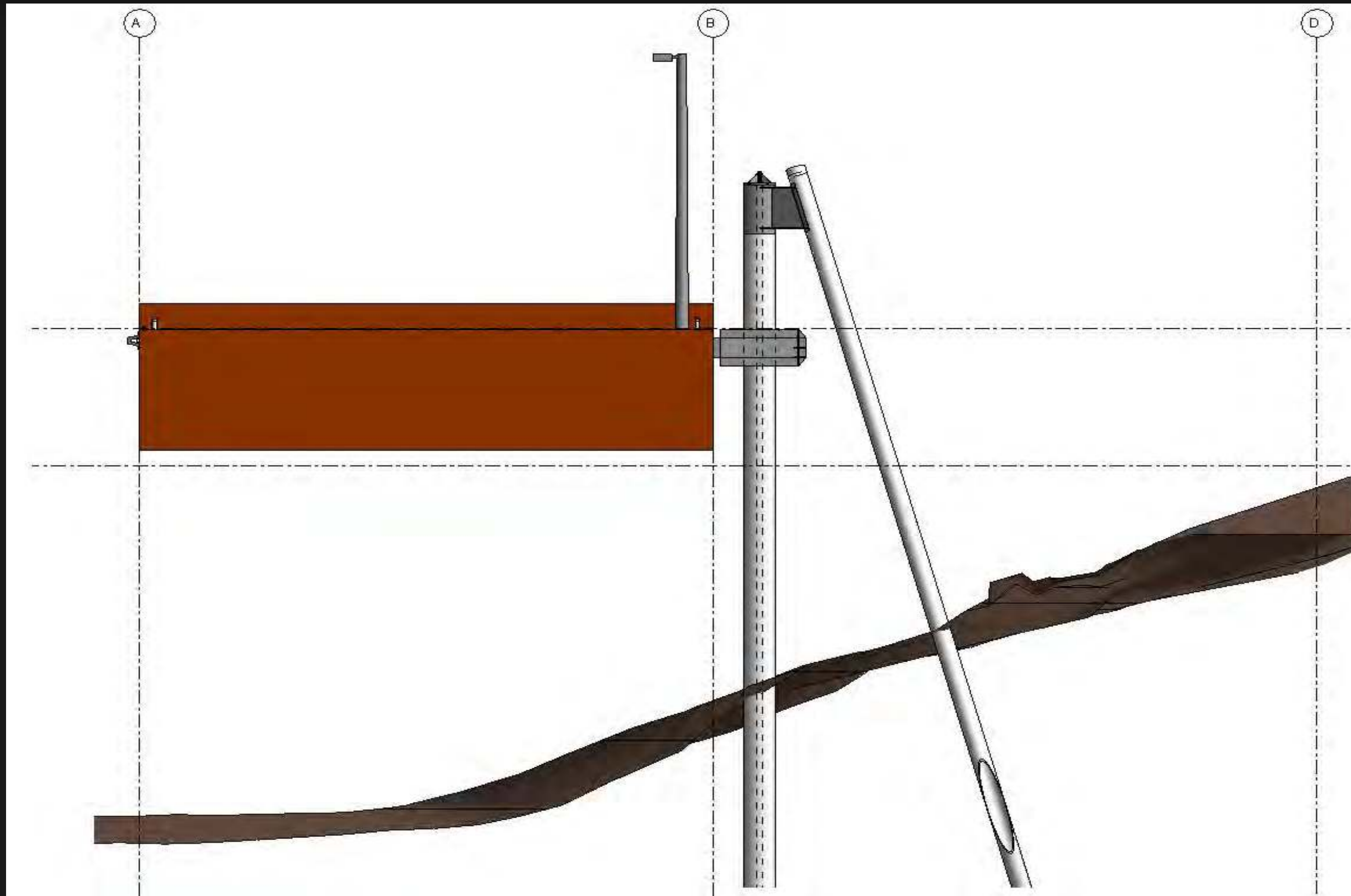


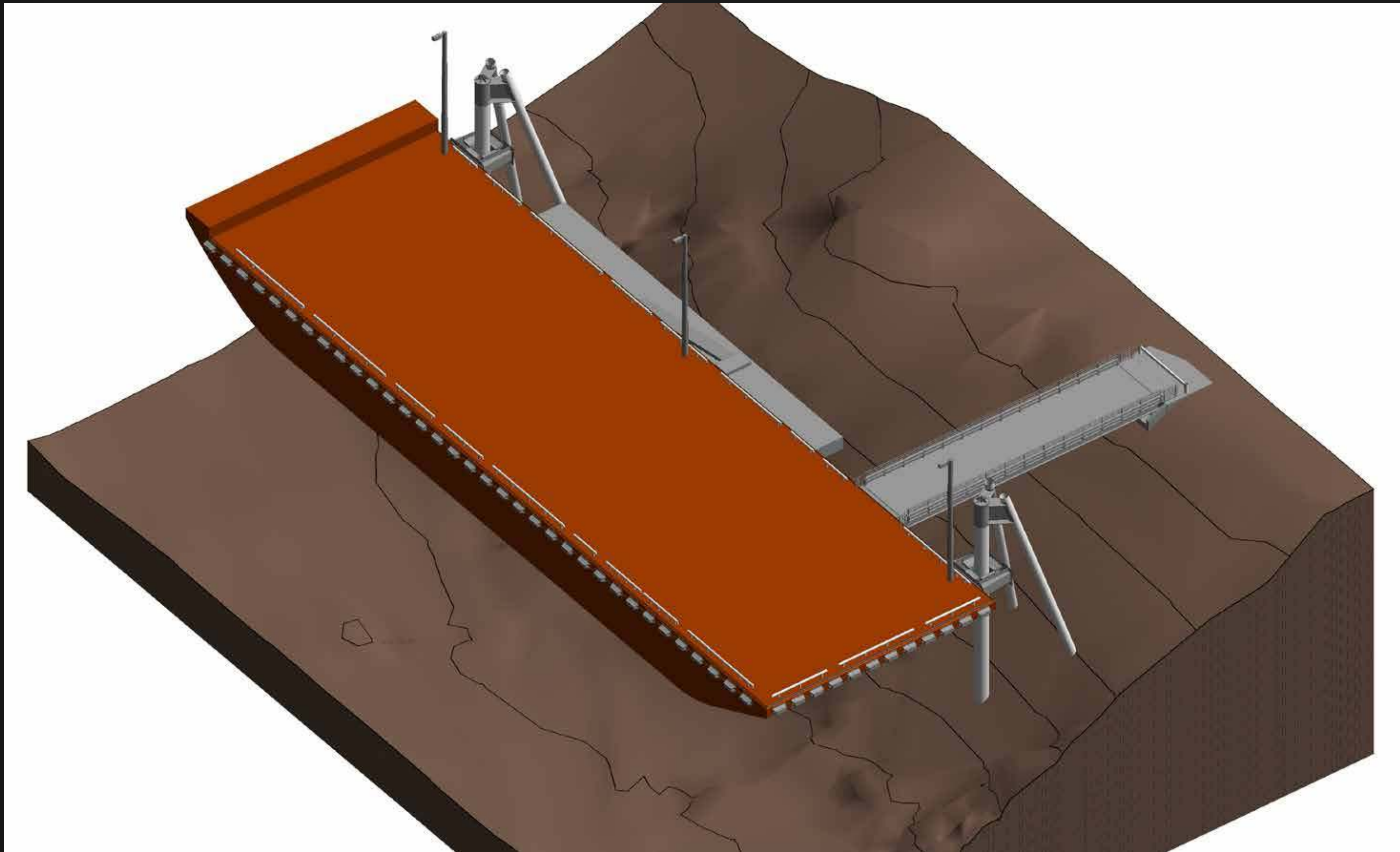


Section



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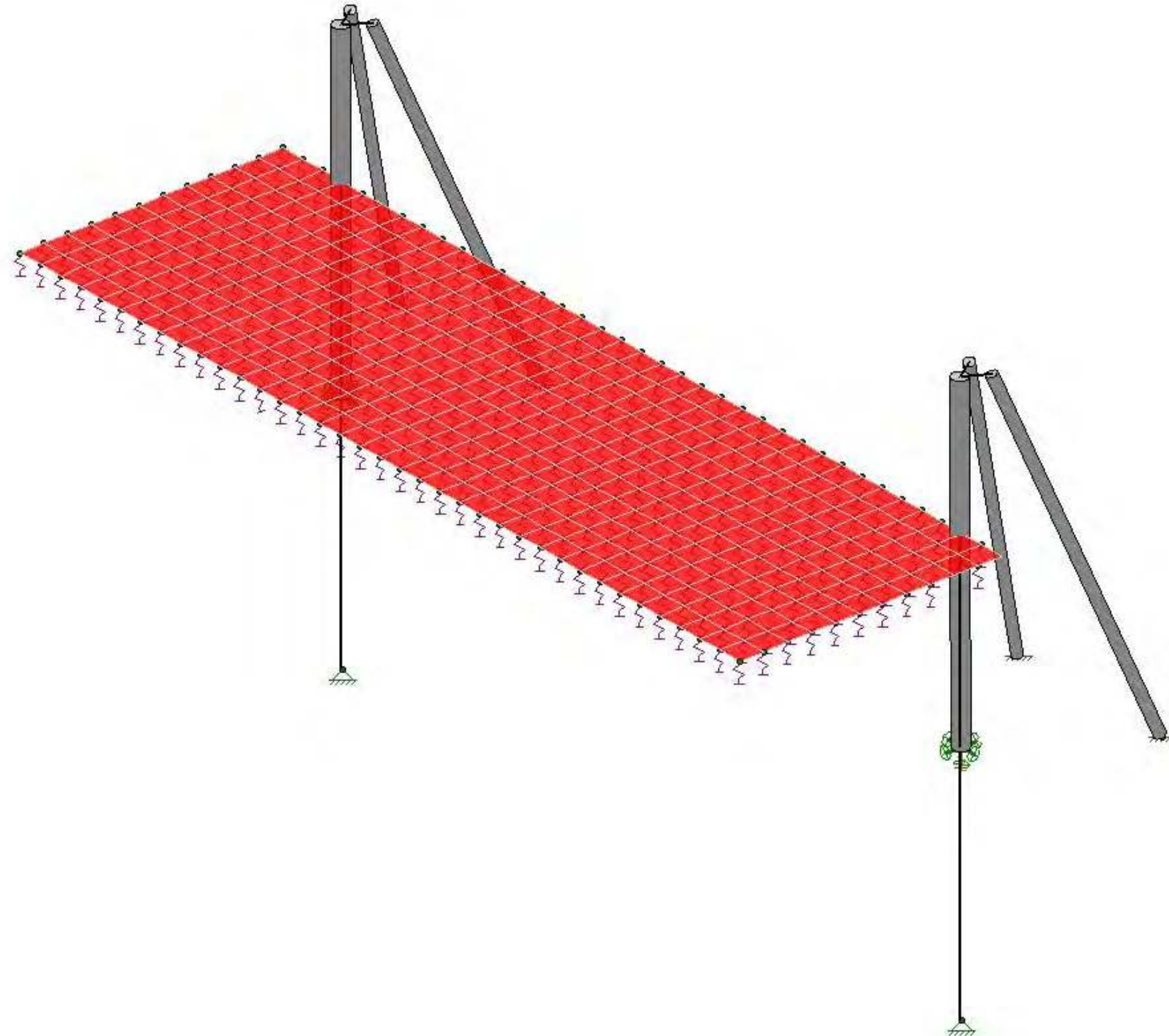




RISA Modeling



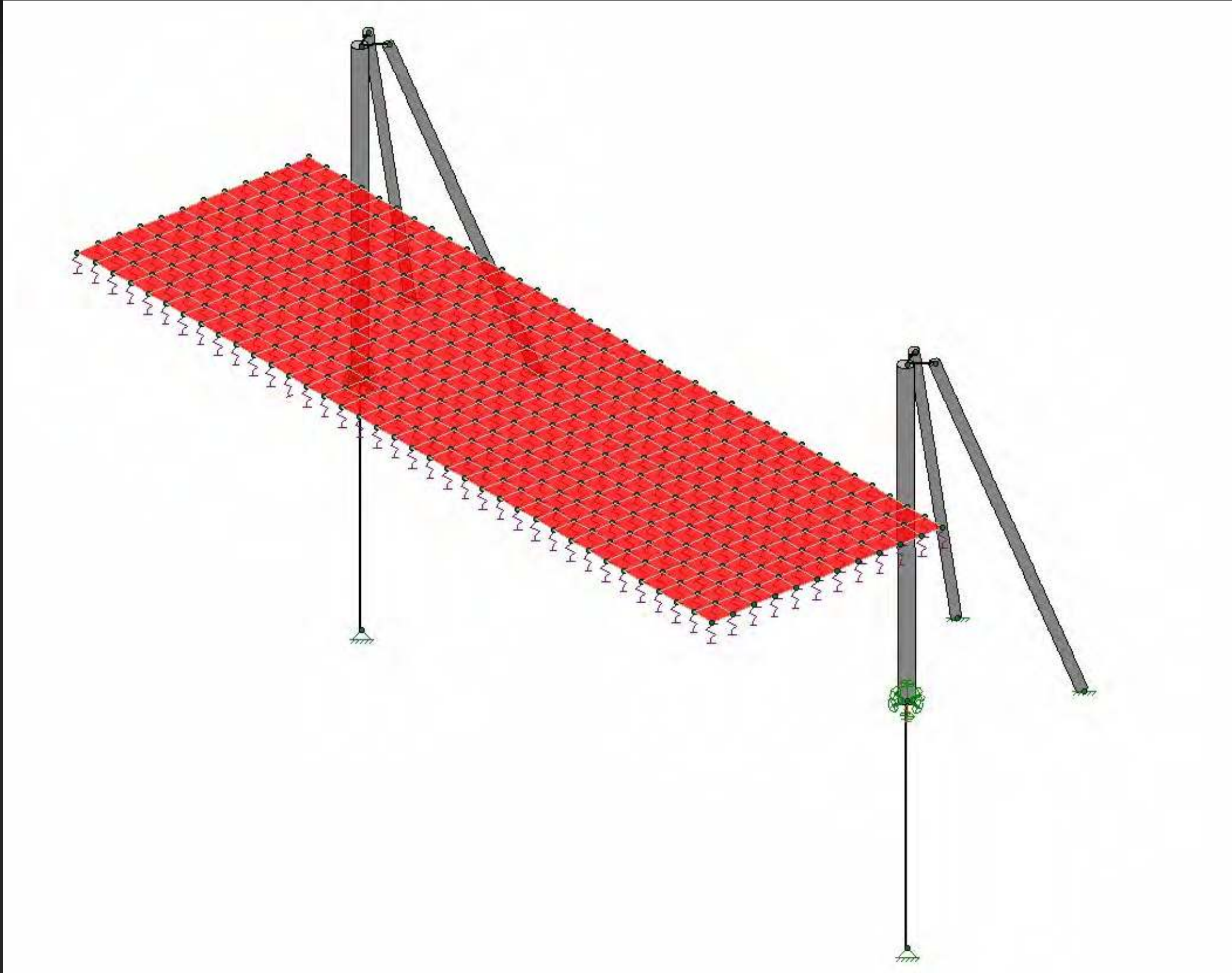
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RISA Modeling



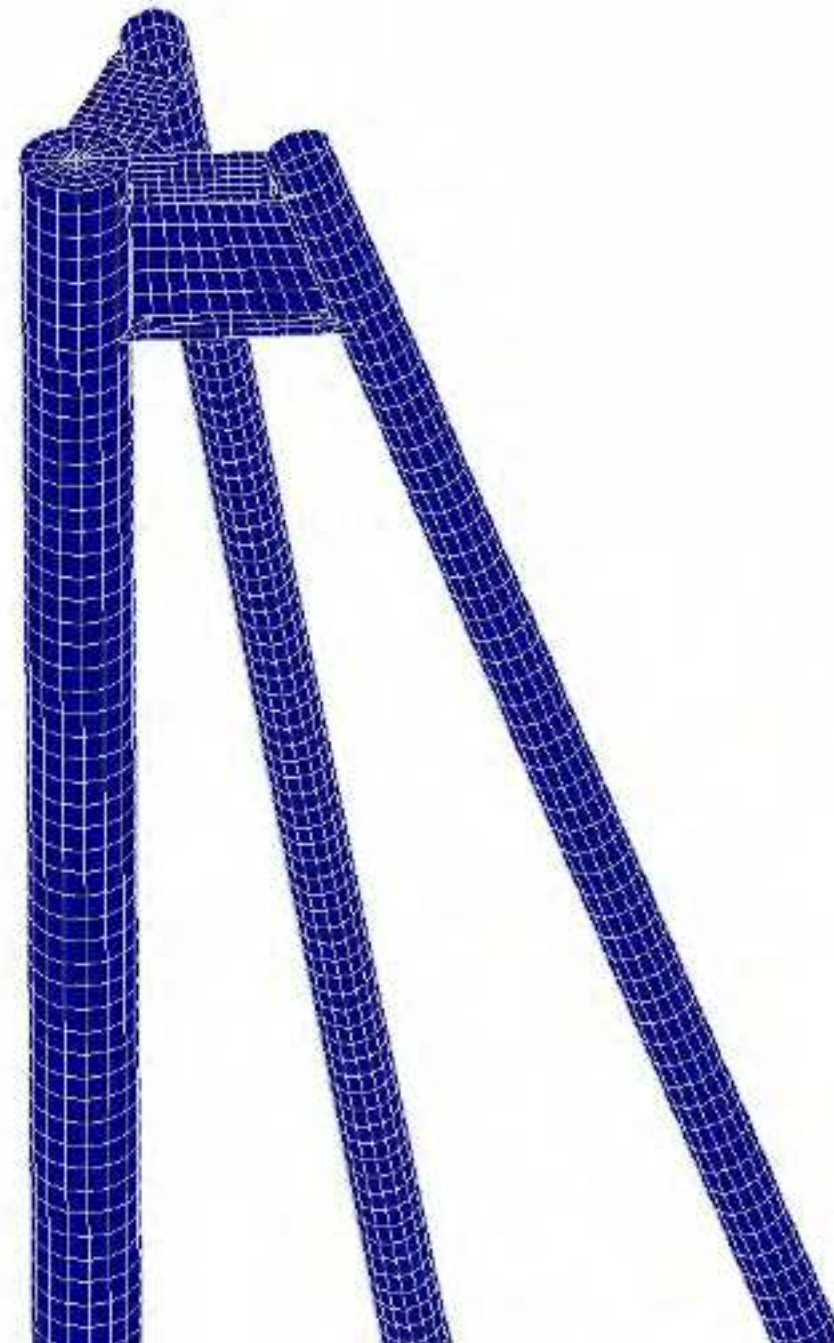
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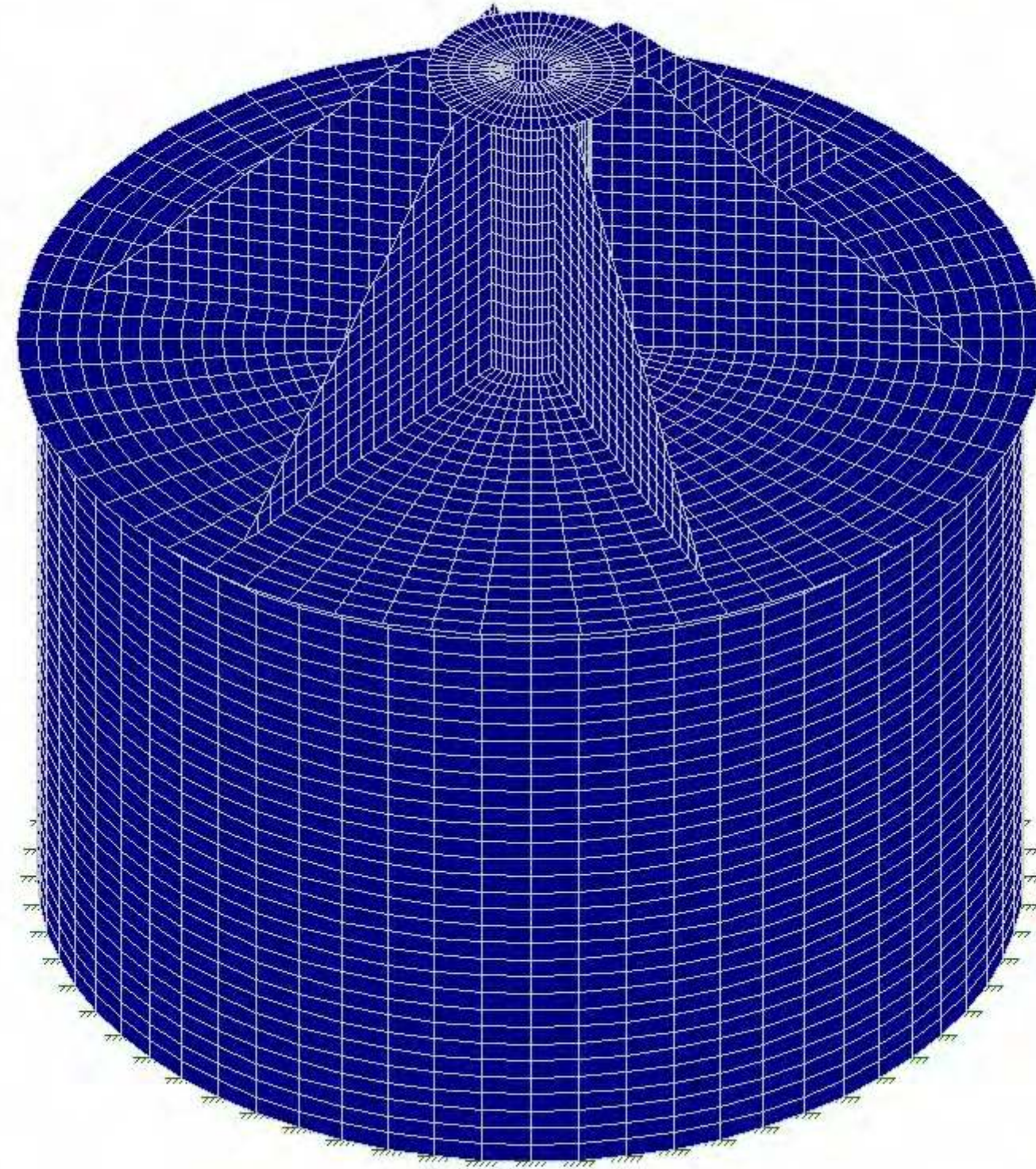


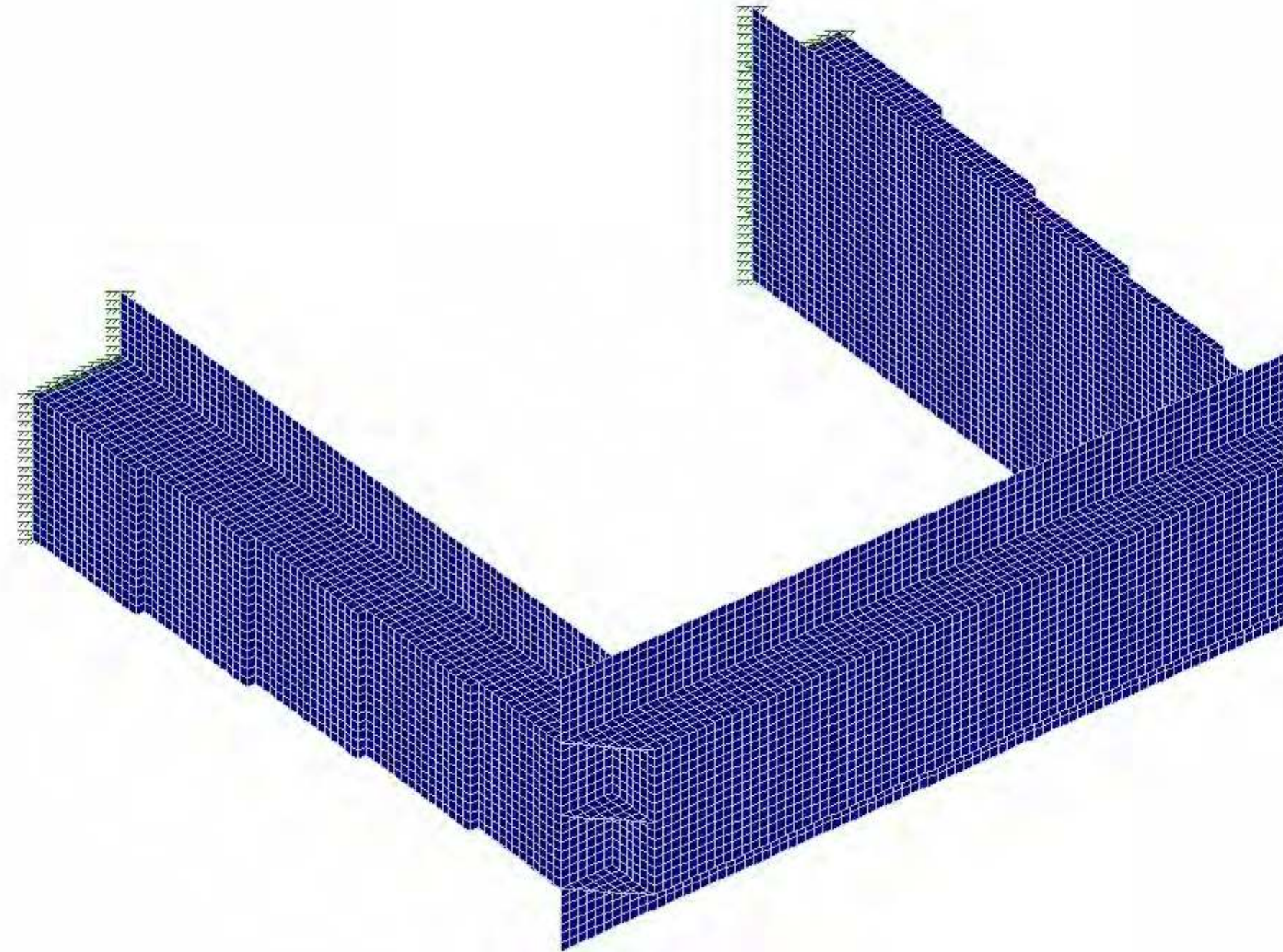
RISA Modeling



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Barge Construction



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Barge Construction

