

Temporary Works Capability

www.case.international

OUR OFFICES

Global Presence of Companies



North America
Houston, Texas

UK & Europe
Edinburgh, Scotland

South America
Florianopolia, Brazil

Australia
Victoria, Queensland
& New South Wales

New Zealand
Auckland

24 HOUR TEAM

Accelerate the delivery
of effective solutions

8 OFFICES

Our talent is spread all
over the world

The CaSE Difference

We provide innovative solutions that focus on minimizing environmental impact



SUSTAINABLE & INNOVATIVE

It is our priority to protect the present and future of our planet. By embracing new technologies and techniques we are able to develop innovative solutions that minimise the impact on the environment.



GLOBAL CONNECTION

Our teams all over the world work close together on projects to be able to accelerate the delivery of effective solutions.

EXPERIENCED TEAM

Our team consists of highly talented people with greatly sought-after pragmatic experience that are passionate about what they do.



SAFETY AWARE

Safety is the focus on all our projects. We care about the safety of our people, the people building and the people using the infrastructure we construct.



SEAMLESS INTEGRATION

Working closely with our clients helps us understand their needs fully.



The CaSE Business

CaSE is a leading Civil and Structural engineering company. Providing high-quality and innovative solutions for infrastructure projects across the globe.



Our designers use a variety of the latest design and modelling software including BIM to create high-quality innovative and sustainable solutions.



Our Construction Personnel including skilled Managers, Engineers and Supervisory staff integrates seamlessly with the client's team to successfully deliver projects.



From traffic management planning and Road safety Design to traffic control and all-round Project Support, we offer bespoke solutions on infrastructure projects.



The Commercial team offers specialist advice that is comprehensive, tailored, efficient and founded on decades of pragmatic experience.

CaSE & PIKE Design

The Design team has a wealth of pragmatic experience in resolving complex issues and delivering complete solutions. This team provides structural, geotechnical, temporary works & permanent works interfacing design services and SME technical advice across many types of building and infrastructure projects.



Heavy Transportation



Demolition Engineering



Suspended Formwork



Heavy Propping



Steel Design & Fabrication



Permanent & Temporary Works



Lifting Frames



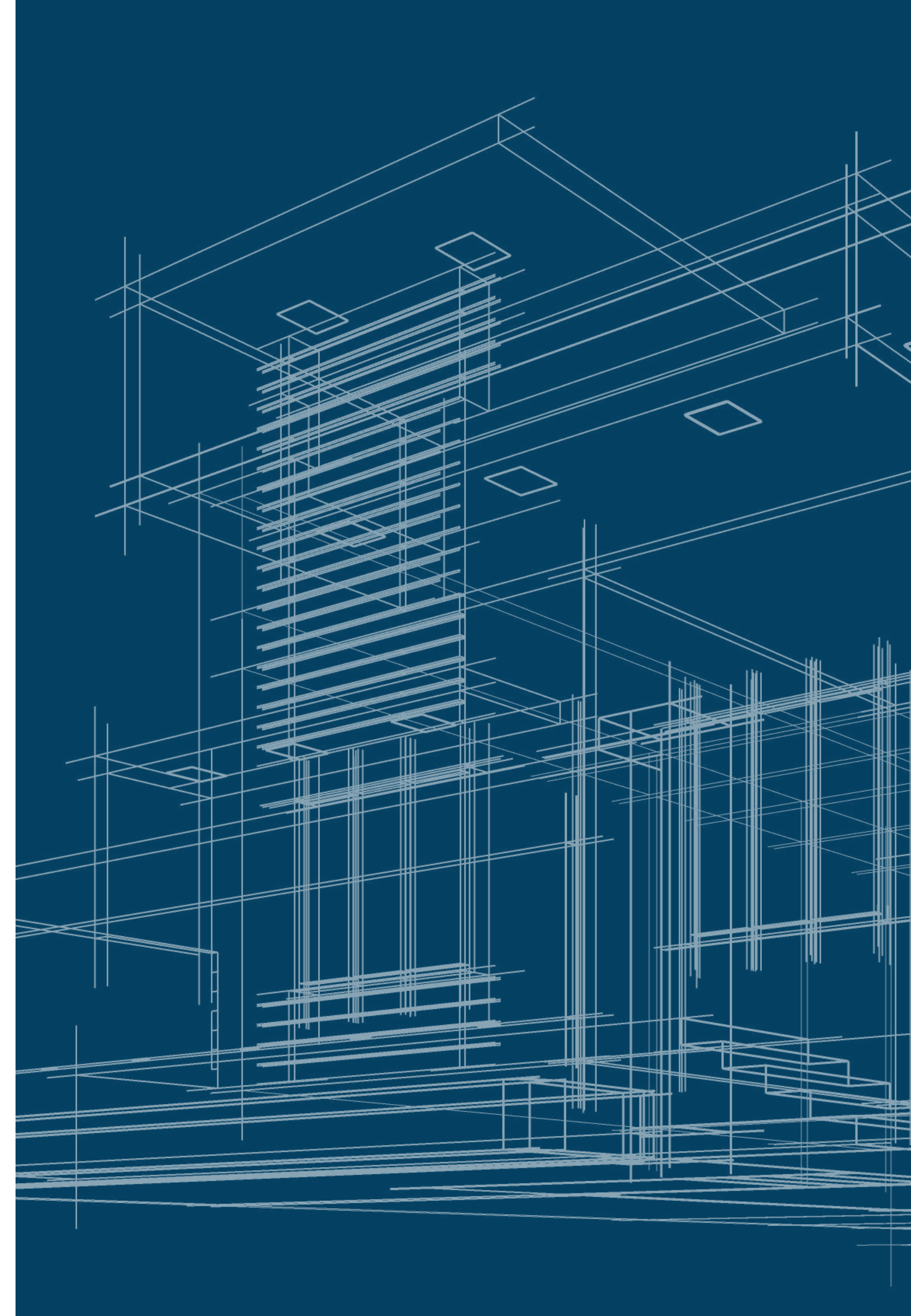
Precast Mould Design



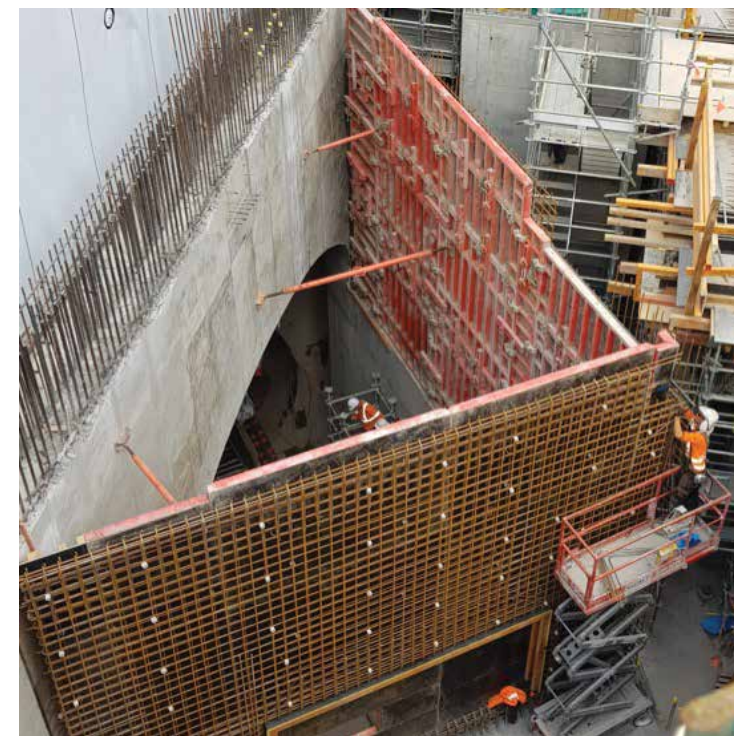
Access



Digital Engineering



Temporary Works - Infrastructure



Inground Works

- Site retention
- Ground anchor design
- Construction ramp & platform design

Formwork & Falsework

- Scaffold design and certification
- Propping for major elements
- Large scale bespoke formwork design

Crane Bases & Ties

- Design
- Inspections and certification

General Construction Assistance

- Marine temporary works
- Site hoardings & overhead protection structures and gantries
- Large reinforcement cage lifting
- Access platforms

Lifting & Jacking Systems



Heavy lift

- Studies and design
- Heavy equipment installation
- Lifting frames

Heavy elements installation

- Large steel beams and columns
- Precast concrete beams, panels, elements

Hydraulic jacking schemes

- Installation of elements
- Load testing (eg in the fabrication yard prior to shipping)

Lifting /sliding /skating /jacking systems

Demolition Engineering



General Demolition

- Temporary propping
- Demolition sequence
- Loading plans

Bridge Demolition

- Truss strengthening
- Permanent works checks
- Span jacking

Heavy Transportation



Design for Heavy Element moves

- Bridge sections
- TBM parts
- Large building elements

Proof Engineering/Peer Review of heavy lift operations

Permanent Works



Ground Retention Systems

- Analyses to model ground movement effects and induced member forces

Cut & Cover Structures

- Structure-Ground interaction

Steelwork Structures

- Preset geometry
- Staged erection analysis
- Crane-lift, fit-up design

Concrete Structures

- Concrete Structures
- Reinforced & Post-tensioned Design
- Precast concrete elements
- Alternatives
- Precast moulds & lifting methodologies

Temporary Works - Bridges



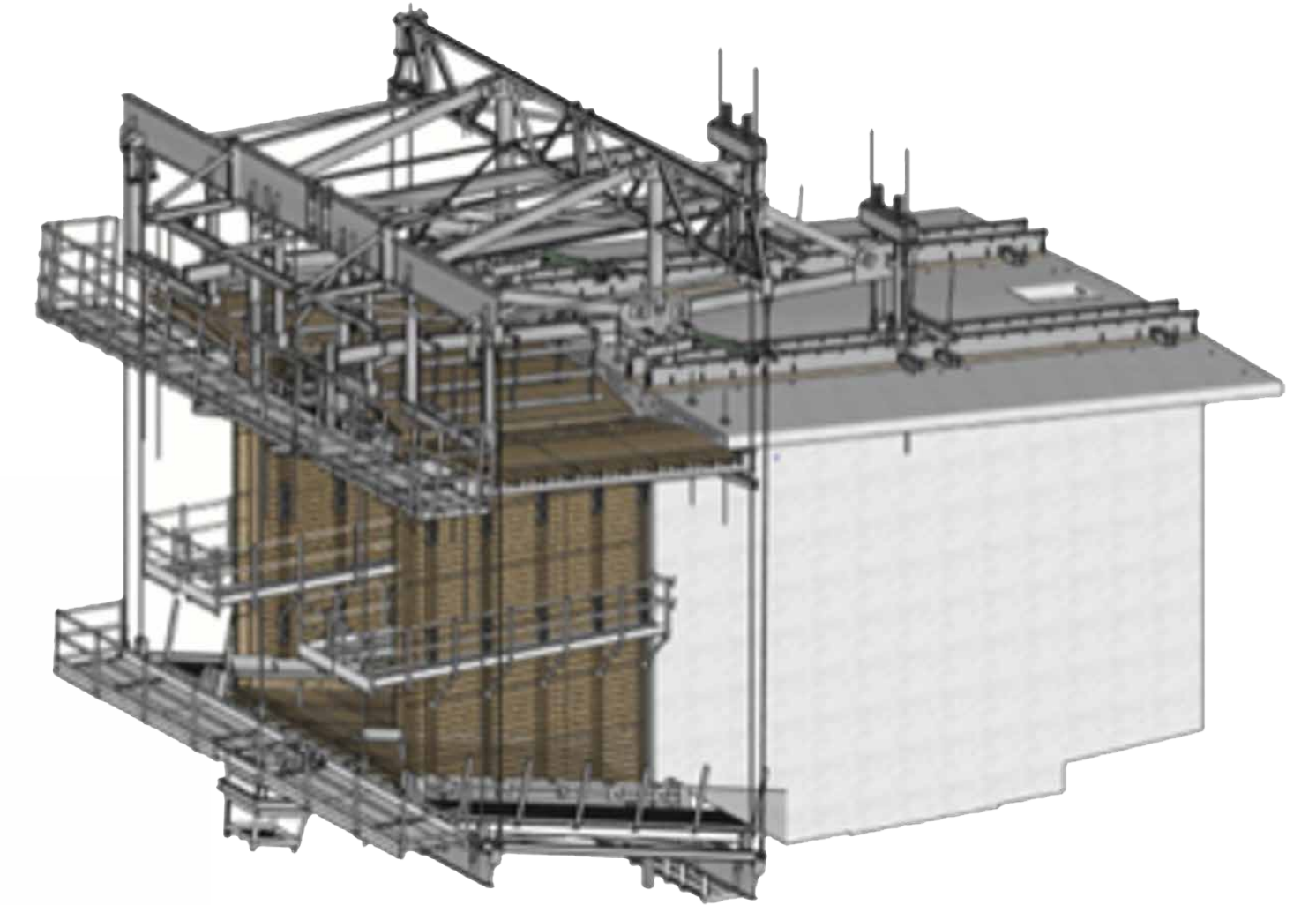
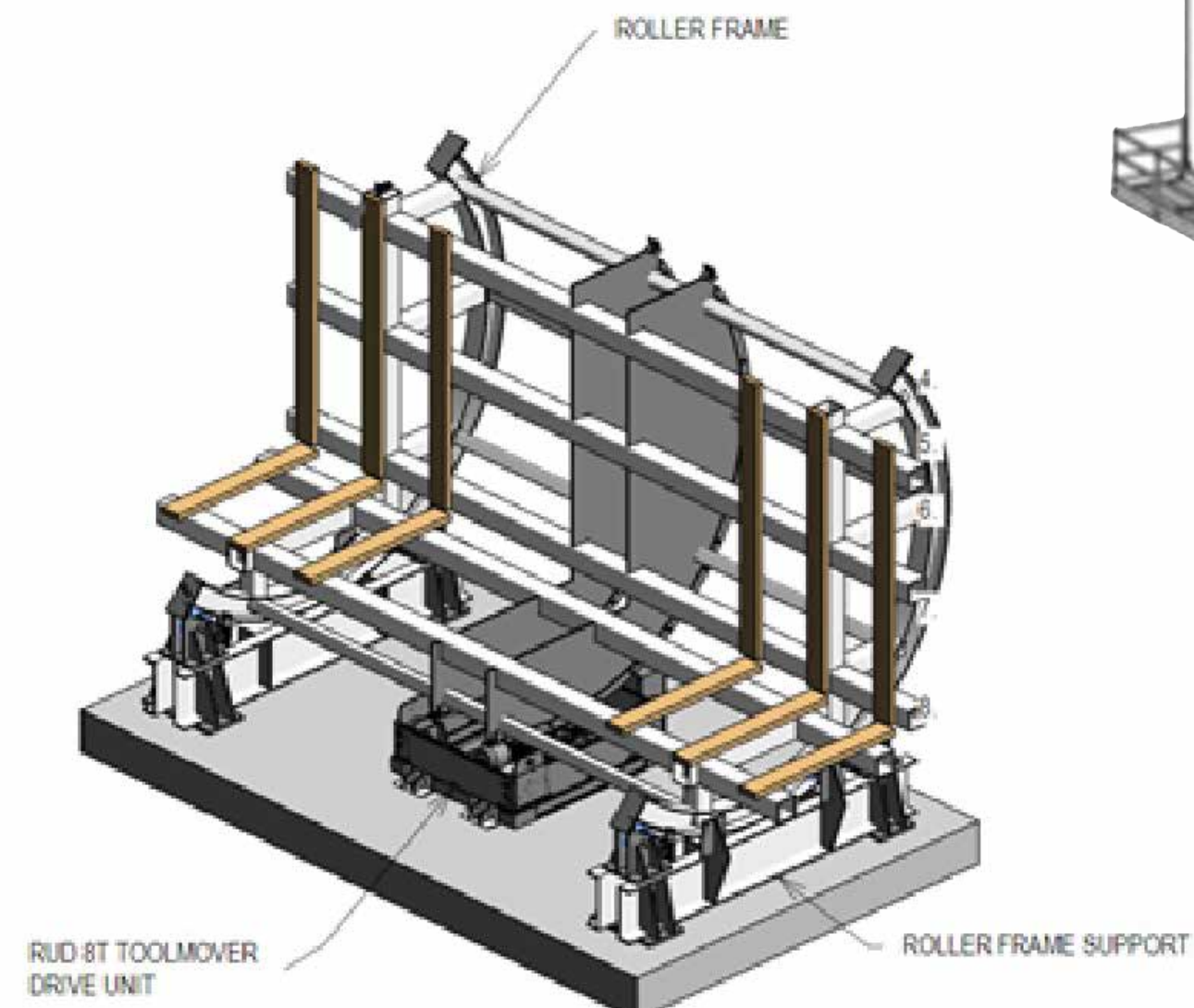
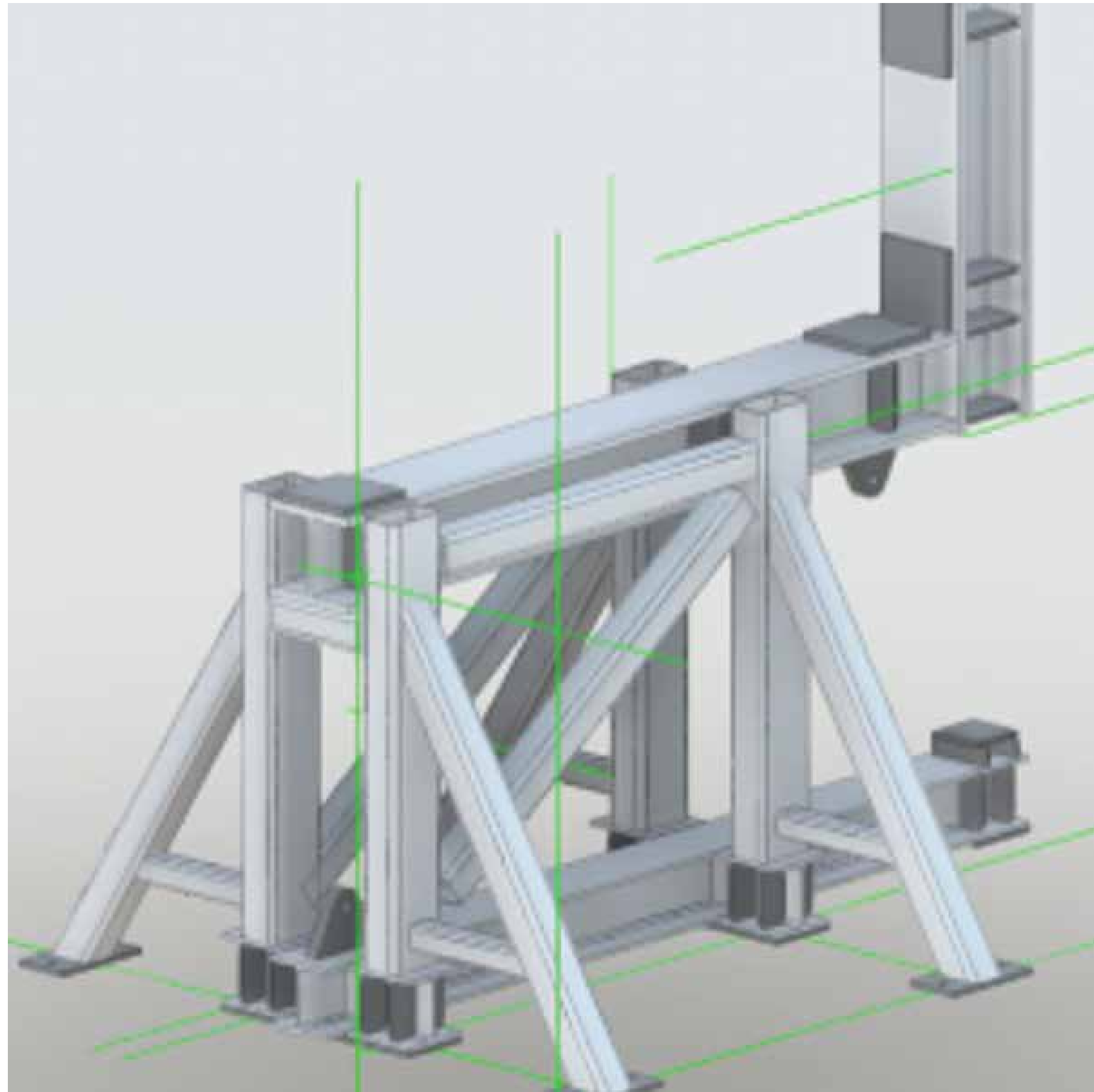
Bridges – Lower level construction works

- Cofferdams and temporary ground supports
- In-situ pier and deck formwork and falsework
- Access systems - piers and superstructure
- Marine Pile Cap supports and formwork

Bridges – Superstructure Construction

- Girder/Segment stability and restraint systems
- Segment and girder lifting devices and methods
- Form-travellers for bridge superstructure and parapets
- Incremental launch formwork and launching noses, side guides
- Out of balance propping systems
- Adjustment system for fit-up/cover tolerances

Digital Engineering



Design Documentation

- BIM, Revit, Tekla modelling
- 3D reinforcement modelling & clash detection
- Construction visualisations

Construction Engineering



Construction Planning Advice

- Construction Methodology Reviews
- Constructability assessments

Steelwork Design & Erection Engineering

- Stage erection analysis
- Lifting analysis
- Deflected shape & angular distortion calculation
- Fit-up analysis of steel girders

Stability Analyses

- Structure stability during construction stages
- Identifying of temporary support requirements through the construction sequence

Geometry control of match-cast (shortline precast) elements

Our Engineering Experts



Jonathan Davies

Managing Director

Jonathan is a highly experienced heavy civil construction and project manager with over 20 years experience in a wide range of construction sectors and roles. He has a strong background in structural and heavy civil engineering, as well as temporary structures designs.



Rob Koch

Principal Engineer / General
Manager CaSE & Pike Design

Thirty-nine years of experience in Australia and internationally including South East Asia and Europe in the design management of multi-disciplinary teams, structural design including major and prestigious projects in areas including sporting complexes andstadia, commercial, defence, aviation, rail, infrastructure, retail, residential, medical, sporting and industrial projects.



Barry Pike

Principal Engineer

Barry has more than 45+ years of experience in heavy civil construction, temporary works design and implementation. His vast experience encompasses not only the structural design and detailing of the temporary works, but includes assistance in determining the total construction procedure, with full consideration being given to the contractors resources, personnel, and experience.

Our Engineering Experts



Joakim Dupleix
Principal Structures

Joakim Dupleix has over 13 years' experience in structural design specialised in bridge design and related construction equipment. He has experienced different aspects of the bridge life-cycle: tender to detailed design, large scale strengthening of existing bridges as well as construction methods optimisations of segmental bridges.



Daiana Perfol
Senior Design Engineer

Daiana is experienced with global analysis and disciplines' compatibility with BIM, development and coordination of technical feasibility studies, budgets, preliminary, basic and execution designs for airport, port, rail and road infrastructures seeking cost reduction and optimization solutions of design and construction.



Florian Dieterle
Principal Structural Engineer

Florian has 10 years' experience in a wide range of infrastructure projects and has an extensive design background in civil and structural engineering. Florian manages the design team and has a mix of permanent works and temporary works design experience. He has experience in pre-cast segmental bridge design and construction, and specialist knowledge of post-tensioning and cable-stay systems.



Russel Odendaal

Principal Engineer

Russel has extensive experience in analysing, designing and constructing various permanent and temporary structures varying from integral prestressed concrete bridges and viaducts to braced excavations. Russel has worked with contractors on-site supervising the construction of bridges giving him a good understanding of constructability incorporated into his designs.



Anthony McLellan

Senior Structural Engineer

Anthony is a Senior Design Engineer with 7 years of experience particularly focussed on temporary works design. His skills with constructability advice at the tender phase, has provided Tier 1 clients with early identification of high risk works that can then be eliminated in the design phase. His attention to detail and his willingness to challenge designs and consider innovative ideas has proven highly effective in the work he has provided to clients.



Chris Norrie (Melbourne)

Principal / Senior Geotechnical Engineer

Chris is a Chartered Civil Engineer with 11 years of experience in the design and construction of large civil works. He specialises in temporary works design, and his experience includes major infrastructure works in the UK and Australia. Chris also has experience in permanent works design for structural and geotechnical engineering.



Calum Henderson

Principal Engineer

Calum's background in temporary works design has enhanced his diligent approach and resulted in the successful management and delivery of complex logistical and technically challenging engineering solutions. Calum forms excellent working relationships and provides a well-balanced practical attitude. His ability to develop, drive and control outcomes on even the most challenging of Projects has been grounded in safe, quality driven, cost-effective processes.



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