

**Southern Queensland Correctional Precinct Stage 2  
 ICN GATEWAY REGISTRATION OF INTEREST (ROI)  
 Temporary Works Engineer**

ICN hereby invites Registration of Interest from respective trade contractors and suppliers for the Southern Queensland Correctional Precinct Stage 2 project for the Temporary Works Engineer package. All ROI submissions should be made through the ICN Gateway.

Scope of Works	<p>Temporary Works engineer qualified to provide professional engineering services, registered either as RPEQ, NER or a CPEng(AU) / CPEng(NZ) in the appropriate discipline, and having at least 5 years of relevant design experience specific to the Temporary Works Design Package.</p> <p>Deliverables:</p> <ol style="list-style-type: none"> <li>1. Assist the Construction Team in identification, planning and development of Temporary Works during the pre-contracts phase.</li> <li>2. Coordinated methodology for all structural elements including FRP, precast, blockwork and structural steel for all building types (13no.)</li> <li>3. Assist the Construction Team in creation of Inspection Test Plans (ITPs) for Temporary Work Elements.</li> </ol> <p>Once the project moves into the delivery phase the TWE will move into the role of John Holland's Proof Engineer.</p> <p>The Proof Engineer is an appropriately qualified and independent Temporary Works Engineer to provide Proof Engineering certification of all CAT 2 and CAT 3 Temporary Works. The Proof Engineer must; Meet the competency and experience requirements of the Temporary Works Engineer;</p> <ol style="list-style-type: none"> <li>1. Work for a different organisation to the Temporary Works Designer;</li> <li>2. Complete a thorough independent review (not a desktop study) with full supporting calculations to certify the design as if they were the certifying Temporary Works Designer; and</li> <li>3. Support the construction team Temporary Works Coordinator (TWC) to resolve any issues raised in a timely manner.</li> </ol> <p>Proof Engineering Deliverables</p> <ol style="list-style-type: none"> <li>1. Ensure the Temporary Works Design issued for proofing is in-line with the coordinated methodology.</li> <li>2. Full verification of all design aspects relative to the strength, serviceability, structural performance and constructability of the Temporary Works package.</li> <li>3. Design inputs, including loads, actions and assumptions are in accordance with specifications, codes, Statutory or Regulatory requirements, and compliance with Project Specifications.</li> </ol>
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4. Documentation produced by the designer is adequate, including dimensions, details, specifications, and other requirements such as tolerances.
5. Ensure the design has met all design deliverables as specified in the Temporary Works Design Brief.
6. Supply John Holland with a [Temporary Works Proof Engineering Certificate \(JH-FRM-DES-006-05\)](#), accompanied by the following;
  - a. List of any comments raised for action by the certifying Temporary Works Designer, with confirmation these have been closed out to the satisfaction of the Proof Engineer;
  - b. Design calculations; and
  - c. List of any exclusions or limitations to the certification.
7. Assist the Temporary Works Site Validator with the Permit to Remove including out of sequence requirements requiring further engineering and certification.

Predetermined Risk Categories for Typical Temporary Works

Temporary Works Requirement	Consequence	Complexity	Risk Category
<i>This list is only a guide and may not be strictly applicable to all scenarios</i>			
<b>Site Establishment</b>			
Unclad proprietary fencing system (within site, no potential for public interaction)	Very Low	Very Low	CAT 0
Site shed stability and hold down anchorages	Low	Low	CAT 1
Covered walkway and awnings (Inc. access decks and ramps)	Low	Low	CAT 1
Typical road barriers	High	Very Low	CAT 1
Site perimeter hoardings and fencing	High	Low	CAT 2
<b>Formwork</b>			
Simple vertical formwork at ground level for pour heights < 1.0m	Very Low	Very Low	CAT 0
Proprietary formwork for vertical elements at ground/excavation level, with pour heights 1.0m to 2.4m	Low	Low	CAT 1



Proprietary formwork for horizontal elements, < 3m in height, with pour depth < 0.25m thick	Low	Low	CAT 1	
Proprietary (double-sided) formwork for vertical elements, with pour heights 2.4m to 3.5m	Med	Low	CAT 2	
Proprietary (single-sided) formwork for vertical elements, with pour heights < 2.4m	Med	Low	CAT 2	
Proprietary formwork for horizontal elements, < 3m in height, with pour depth < 0.5m thick	Med	Low	CAT 2	
Multi-storey formwork and back propping	Med	Med	CAT 2	
Proprietary (double-sided) formwork for vertical elements, with pour heights > 3.5m	High	Med	CAT 3	
Proprietary (single-sided) formwork for vertical elements, with pour heights > 2.4m	High	Med	CAT 3	
Large / complex, climbing, travelling or unusual system of formwork / falsework	High	High	CAT 3	
<b>Access and Working at Height</b>				
Riser and shaft Penetration covers (< 0.6m by 0.6m)	Med	Low	CAT 2	
Riser and shaft Penetration covers (0.6m by 0.6m > X < 2.0m by 2.0m)	High	Low	CAT 2	
Safe edge protection or guard railing to AS1657	High	Low	CAT 2	
Perimeter safety screen (not integrated with formwork system)	High	Low	CAT 2	
Riser and shaft Penetration covers (> 2.0m by 2.0m)	High	Med	CAT 3	
Specially designed scaffolds – Cantilevering or counterbalanced / swing stage / hanging or where there is a specific construction and deconstruction sequence	High	Med	CAT 3	
<b>Structural</b>				



Lifting, storage and placement of large reinforcement cages (bored piles, D-wall)	High	Low	CAT 2	
Overhead protection gantry	High	Med	CAT 3	
Steel gantry for elevated stacked sheds	High	Med	CAT 3	
Demolition / stability assessment of existing buildings and walls	High	Med	CAT 3	
Heavy bespoke steelwork (TBM thrust frames, gantry crane bridging beams)	High	High	CAT 3	
Staged erection analysis of complex structures	High	High	CAT 3	
<b>Civil</b>				
Temporary trafficable pavement and civil design within site boundary	Low	Med	CAT 1	
Temporary site drainage (open drains, pits and pipes)	Low	Low	CAT 1	
Temporary roads, pavements, drainage for public use	High	Med	CAT 3	
Temporary flood assessments and protective measures	High	High	CAT 3	
<b>Geotechnical</b>				
Minor earth benching and battered slope ( $\geq 2:1$ ) < 1.0m in firm ground	Very Low	Very Low	CAT 0	
Temporary Haul Roads for construction traffic only	Low	Low	CAT 1	
Shallow trenches and pits, not exceeding 1.5m depth in good ground and no significant overburden or movement sensitive assets adjacent the excavation using proprietary systems	Low	Low	CAT 1	
Simple ground retention system using post & panel, sheet pile, etc, excavation depth < 1.5m	Low	Low	CAT 1	



Pits and trench shoring using standard components to catalogue design, excavation depth < 1.5m	Low	Low	CAT 1	
Working platform to support cranes, piling and heavy load bearing plant & equipment, excluding those in soft ground which requires advanced analysis or ground treatment	High	Low	CAT 2	
Simple ground retention system using post & panel, sheet pile, etc, excavation depth 1.5m to 3.0m	High	Low	CAT 2	
Pits and trench shoring using standard components to catalogue design, excavation depth 1.5m to 3.0m	High	Low	CAT 2	
Working platform to support cranes, piling and heavy load bearing plant & equipment, for complex lifts, soft ground which requires advanced analysis or ground treatment and/or interaction with complex structures	High	High	CAT 3	
Refer to Working Platform Certificate (Link) which must be appended to design brief as a design deliverable				
Ground retention system using props / walers / struts / anchors, excavation depth > 1.5m	High	Med	CAT 3	
Primary ground support (canopy tubes, rock bolts, etc) for mined tunnel construction	High	High	CAT 3	
<b>Lifting</b>				
Lifting operations	Refer to Lifting Operations <a href="#">Lift Planning Matrix</a> .			
Lifting devices (lugs, spreaders and lifting beams)	High	Med	CAT 3	
<b>Precast and Modular Construction</b>				
Propping to typical precast wall panels < 20t	High	Low	CAT 2	
Precast lift inserts to AS3850. Design deliverable to provide rigging thumbnail drawings.	High	Low	CAT 2	



	Propping to large / complex precast wall panels, or panels with unique geometry and/or eccentric centre of gravity	High	Med	CAT 3	
	Storage, lifting, placement and stability analysis of heavy steel or precast elements	High	Med	CAT 3	
	<b>Transportation</b>				
	Transportation lashing for heavy steel or precast elements  (Refer NHVL, NTC Guidelines)	High	Low	CAT 2	
	Transportation system (structural, global and local stability) of bolsters and cradles for heavy steel or precast elements	High	Med	CAT 3	
	<b>Marine</b>				
	Mooring systems	High	Med	CAT 3	
	Barge materials handling fit-out, lashing, structural and stability	High	High	CAT 3	
	<b>Plant &amp; Equipment</b>				
	Material Loading Platform (installation and propping)	High	Low	CAT 2	
	Concrete place boom and personnel hoist installations	High	Low	CAT 2	
	Tower Crane Installations (base design, ties, sequencing, etc.)	High	Med	CAT 3	
<b>Project Summary</b>	<p>In June 2019 Queensland Government announced plans to build a new 1000 bed men's prison near Gatton with the \$653M facility planned for completion in 2023. The Stage 2 expansion will:</p> <ul style="list-style-type: none"> <li>• Address overcrowding across the correctional system in Queensland</li> <li>• Improve safety of correctional officers and prisoners</li> <li>• Deliver economic boost and additional jobs during both construction and operation</li> </ul>				

	The Queensland Government has determined that this new correctional centre will adopt a 'health and rehabilitation' operating model which will support safer communities through enhanced mental health and drug and alcohol rehabilitation services for prisoners, with a focus on addressing the ice epidemic and its link to violent and property crime.
Location of Works	The Southern Queensland Correctional Precinct is located at Grindle Road, Spring Creek, about 12 km north-east of Gatton and about 100 km south west of Brisbane in the Lockyer Valley
Delivery Schedule	Design Development is currently in progress and is anticipated to be complete by Early December 2020. Subcontractor and supplier procurement will commence in September 2020.  Early Site works are planned to commence in December 2020. Main works are planned for commencement in January 2021.
<b>General Information</b>	
<p>John Holland encourages local industry interested in supplying to the project to register an expression of interest (ROI) through the ICN Gateway webpage.</p> <p>Information on specific supply opportunities will be communicated on the ICN Gateway project page as it becomes available, with local industry able to register its interest against them.</p> <p>Please ensure that:</p> <ul style="list-style-type: none"> <li>Your company profile on the ICN Gateway is complete, up-to-date and accurate including electing to be notified via e-mail of supply opportunities</li> <li>You register your interest as a full or partial scope supplier (where applicable), and</li> <li>You respond to all project and work package-specific questions.</li> </ul> <p>It is important that businesses submitting an ROI are aware that their submission does not guarantee that they will progress further in the procurement process. Only companies that can demonstrate capability and capacity in accordance with the Southern Queensland Correctional Precinct Stage 2 project requirements will be invited to pre-qualify for specific opportunities.</p>	
<p>The following Queensland Government policies are applicable to this project:</p> <ul style="list-style-type: none"> <li>Queensland Procurement Policy 2019  <a href="http://www.hpw.qld.gov.au/SiteCollectionDocuments/QLDProcurementPolicy.pdf">http://www.hpw.qld.gov.au/SiteCollectionDocuments/QLDProcurementPolicy.pdf</a>            which includes the Best Practice Principles for Quality &amp; Safe Workplaces  <a href="http://www.hpw.qld.gov.au/SiteCollectionDocuments/QualitySafeWorkplaces.pdf">http://www.hpw.qld.gov.au/SiteCollectionDocuments/QualitySafeWorkplaces.pdf</a>.</li> <li>Queensland Government Building and Construction Training Policy  <a href="https://desbt.qld.gov.au/_data/assets/pdf_file/0023/8339/qg-building-construction-training-policy.pdf">https://desbt.qld.gov.au/_data/assets/pdf_file/0023/8339/qg-building-construction-training-policy.pdf</a></li> <li>Queensland Charter for Local Content  <a href="http://www.statedevelopment.qld.gov.au/resources/policy/queensland-charter-for-local-content.pdf">http://www.statedevelopment.qld.gov.au/resources/policy/queensland-charter-for-local-content.pdf</a></li> </ul>	