

**ROESNER &
HAMILTON**

GROUP CAPABILITY STATEMENT

2026



Integrated Civil & Electrical
Engineering and Construction



DESIGN & CONSTRUCTION

Integrated civil and electrical delivery

Roesner & Hamilton delivers integrated civil and electrical design and construction solutions across South East Queensland. Backed by our multidisciplinary consulting capability and delivery teams, we provide seamless end-to-end support from planning and design through to construction, commissioning and handover.



Design

Our design capability combines practical civil and electrical expertise to deliver coordinated, constructible solutions for infrastructure projects. Services include:

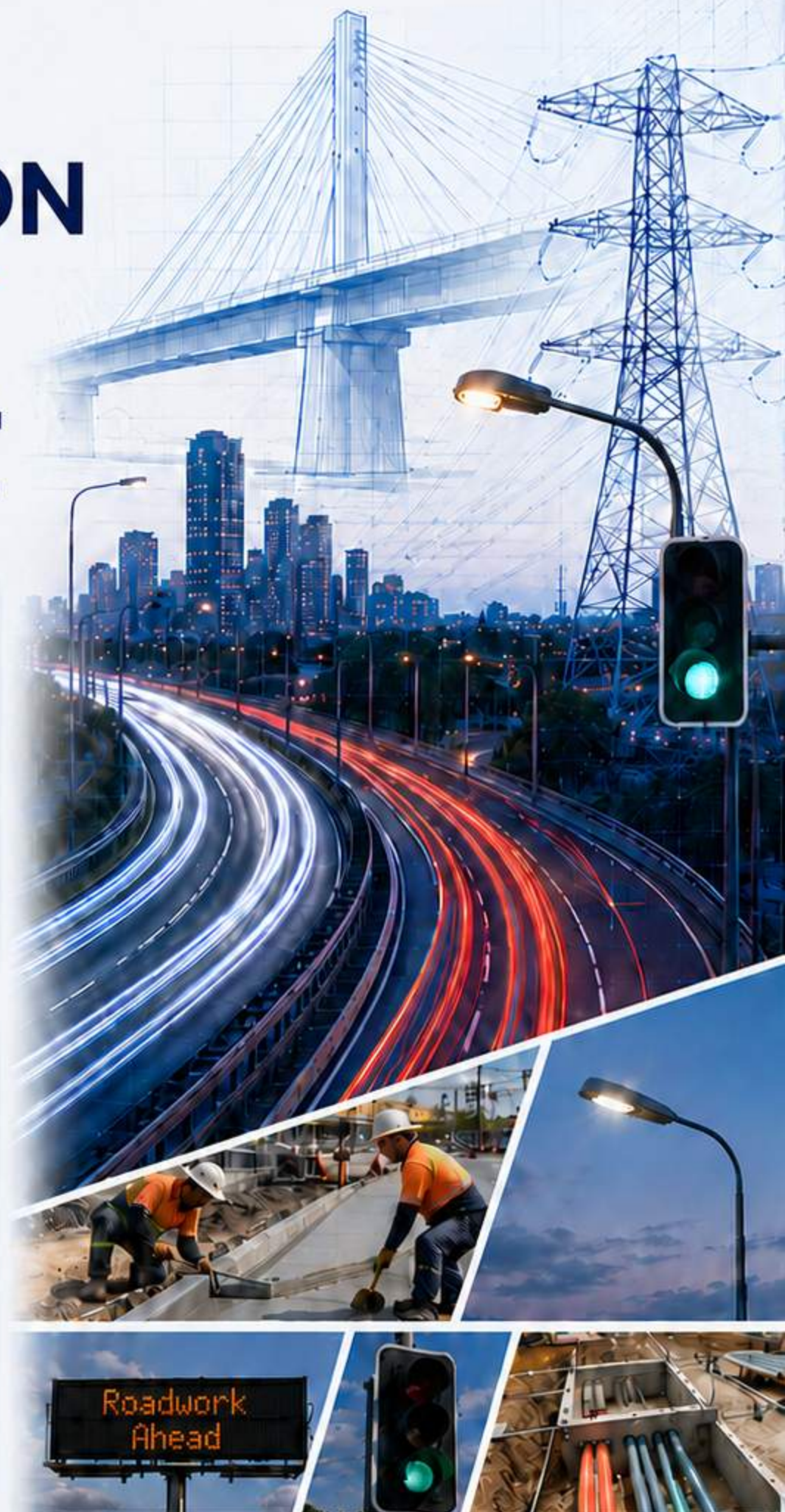
- Road and pathway lighting design
- Traffic signals and Intelligent Transport Systems (ITS) design
- Civil infrastructure design including roads, drainage, pavements and associated ancillary works.
- Utility coordination, conduit and pit layouts, pole and footing arrangements
- Constructability input, staging and tender support



Construction

Our construction capability brings together both civil and electrical delivery, allowing streamlined project execution with fewer interfaces and better outcomes. Services include:

- Road works – kerb and channel, pavements, asphalt surfacing and drainage infrastructure
- Concrete works – footpaths, pedestrian ramps, driveways, structural footings and hardstand areas
- Earthmoving and site preparation
- Installation and commissioning of road and pathway lighting
- Traffic signals, ITS, communications and CCTV infrastructure
- Conduits, pits, footings, electrical and communications installation, upgrades and repairs
- Testing, commissioning and maintenance



Key Projects



Smart LED Road Lighting Project Stages 1-3



O'Connell Park Upgrade



Variable Message Signs and Road Condition Information Signs



The People's Esplanade Pop-Up in Surfers Paradise – Roadworks Package

CIVIL INFRASTRUCTURE

Roesner and Hamilton Consulting Engineers is part of the R&H Group, a multi-disciplinary team delivering integrated civil and electrical solutions across consulting and construction. Our civil infrastructure design team has extensive experience in the delivery of road and highway planning and design projects for Local and State Government in south-east Queensland. We deliver compliant, integrated, constructible, and cost-effective solutions for our clients. Our Project Managers guide projects from inception to finalisation by engaging with stakeholders, managing quality and controlling project progress against program and budget. We also integrate Building Information Modelling (BIM) into our design processes to improve coordination, enhance design accuracy, and support efficient project delivery from planning through to construction.

TECHNICAL CAPABILITIES

- Planning and detailed design of road projects including highways, motorways, intersections and interchanges.
- Road Safety Barrier Assessments and Design
- Signage and Pavement Marking Design
- Active Transport Infrastructure Design
- Public Transport Infrastructure Design
- Road Drainage Design
- Public Utility Plant Conflict Management
- Building Information Modelling (BIM)

KEY PROJECTS:

1 Safer Roads Sooner Upgrades on Nerang Connection Road, Nerang

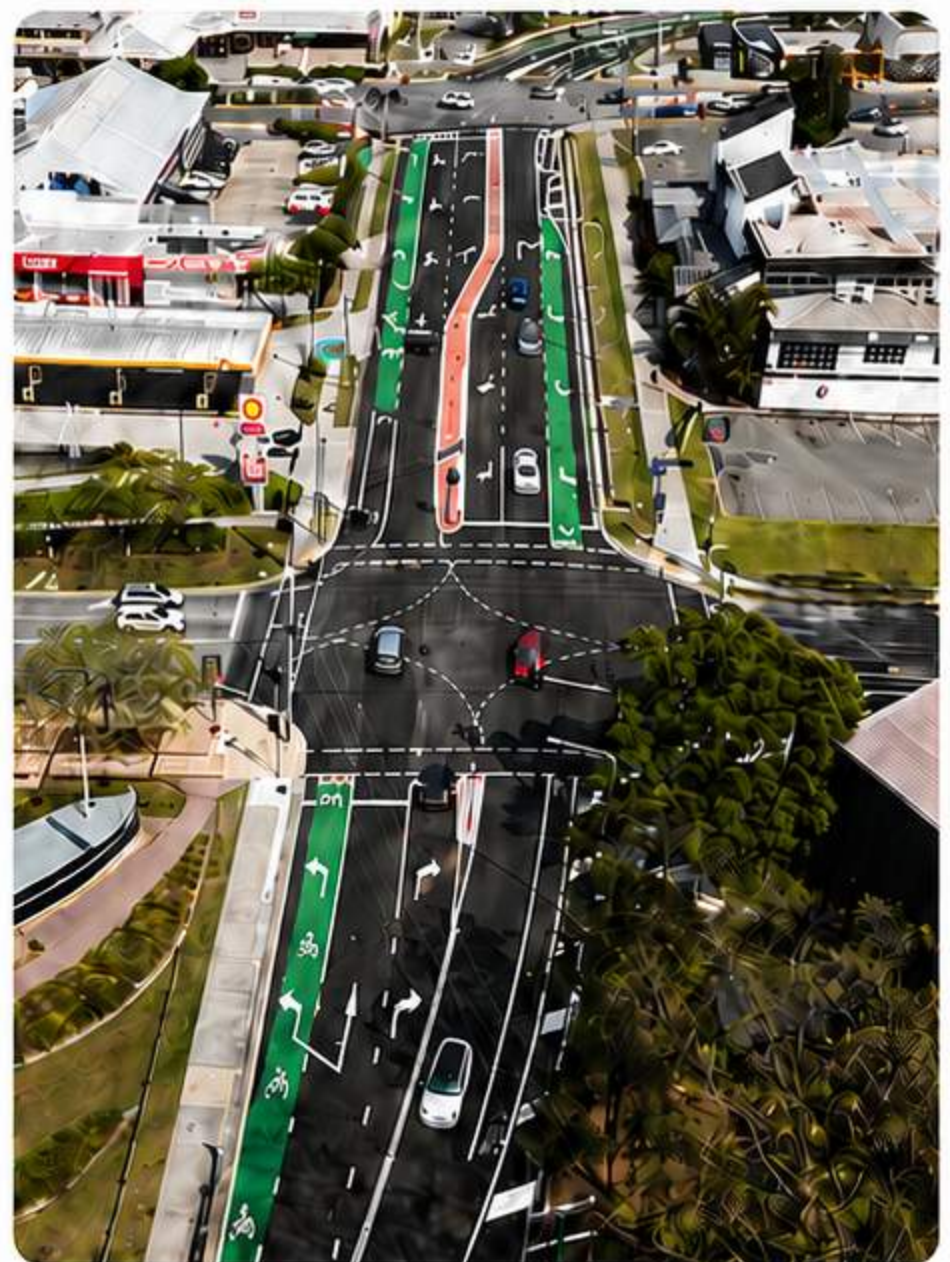
R&H Consulting Engineers delivered the detailed design of safety upgrades on Nerang Connection Road for Ventia, on behalf of Transport and Main Roads. The project objective was to improve pedestrian and vehicle safety at the intersections of Nerang Street and Southport Nerang Road with Nerang Connection Road. The works included intersection layout and signal phasing modifications to remove filtered right turn movements and add an additional pedestrian crossing. Fencing was also installed to guide pedestrians towards signalised crossing points to enhance safety.

2 Signalised Pedestrian Crossing on Thrower Drive, Palm Beach

R&H Consulting Engineers delivered the detailed design to upgrade an existing zebra crossing to a mid-block signalised pedestrian crossing on Thrower Drive for the City of Gold Coast. The works included installation of new pedestrian signals, footpath upgrades and line marking and signage modifications to improve safety and compliance.

3 Approach Barrier Design, Surfers Paradise

R&H Consulting Engineers delivered the design of four bridge approach barriers for the City of Gold Coast on the Gold Coast Highway to ensure compatibility between standard traffic operations and the temporary infrastructure requirements of the annual GCSSO race. The solution eliminates the previously unsustainable practice of removal and reinstatement, improving long-term asset efficiency. The works addressed complex site constraints including diverse stakeholder requirements and approvals and integration with existing services and bridge barrier infrastructure.



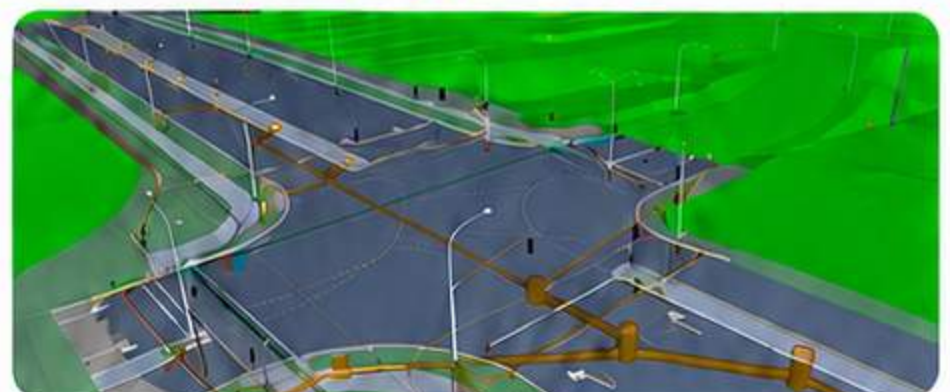
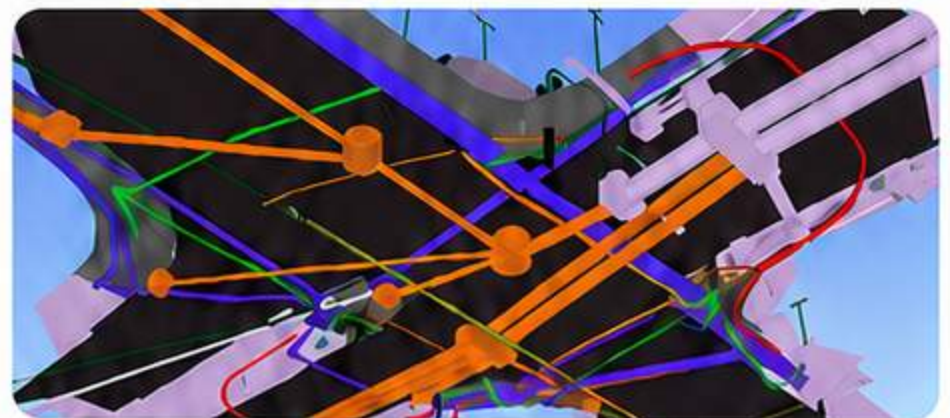
BUILDING INFORMATION MODELLING (BIM)

The Roesner & Hamilton Consulting Engineers team are experienced in developing, implementing and delivering BIM Models.

“Build it twice (virtually first)”

TECHNICAL CAPABILITIES

- Model Existing Conditions
- Develop Civil / Electrical Design, spatial and object-based design models
- Combine all project elements into a single Federated Model.
- Create Design Visualisations for functional analysis
- Quantity take-off and cost planning
- Clash Detection/Coordination



Intelligent Transport Systems (ITS), Lighting and Traffic Signals

R&H Group deliver expert design services for road lighting, pedestrian lighting, public space amenity lighting, and traffic signals. We prepare lighting layouts and associated electricity reticulation designs in accordance with Australian design codes, suitable for installation under Rate 2, Rate 3, unmetered, or metered tariffs. Our team has proven experience in delivering compliant and efficient lighting and signal designs across Queensland.

R&H Group also provide design services for a broad range of Intelligent Transport Systems (ITS) applications, in accordance with both Australian and international design codes. With extensive experience delivering ITS solutions across Queensland, we offer concept and detailed design, traffic coordination, integration with existing systems, coordination with other services, and liaison with road and transport authorities to facilitate approvals.



ITS&E, Lighting and Traffic Signals

Technical Capabilities



- Road Lighting (Rate 2, Rate 3 and metered supply)



- Traffic Signals



- Intelligent Transport Systems including smart motorways and smart crossings



- Temporary Site Compounds



- CCTV, VMS, CMS and other traffic, community and pedestrian monitoring and control systems



- Traffic behaviour sensing using wireless technology or hard-wired e.g. piezoelectric or inductive loops



- Traditional and innovative counting technology



- Heavy vehicle monitoring and tamper detection systems



- Vehicle telematics



- Communications systems



- Pedestrian control systems

Key Projects



Coomera Connector North/South/Central

This multi-billion-dollar major road construction project will provide motorists more option when travelling the Northern Gold Coast to Beenleigh. For this project Roesner and Hamilton designed:

- Vehicle and pedestrian pathway lighting
- Traffic signals
- Carpark lighting
- ITS
- Underpass lighting
- ITS&E BIM



Exit 49 Interchange

This major interchange upgrade project included new structures, new motorway ramps, new local roads and new intersections. Working closely with the wider project team, Roesner and Hamilton designed the:

- Street lighting
- ITS
- Traffic signals
- ITS&E BIM



CDOP Gateway Upgrade North Point to Point Enforcement Project

This project involved retrofitting the existing motorway with police enforcement cameras and associated infrastructure. From a civil perspective, Roesner and Hamilton's role in the project involved localised widening design and barrier upgrade for the new camera sites. From an electrical perspective, our electrical engineer's designed pits, conduits, switchboards and cabling.



Smart Heavy Vehicle Monitoring System Project

Roesner and Hamilton were engaged by TMR to complete the design for heavy vehicle monitoring sites at multiple locations across Queensland. This innovative project included the design of automatic number plate recognition cameras and supporting electrical, communications and civil works

Power Networks



1. Large / Major Customer Connections:

Roesner & Hamilton provides negotiation, design and construction liaison services for clients with substantial (over 1MW) load requirements. We can prepare designs for 11kV substations to authority standards and Australian design codes. Our team has demonstrated experience in planning and design of distribution substations throughout Queensland.

Technical Capabilities:

- Concept Design
- Detailed Layout and Reticulation Design
- Master Planning & Engineering Reports for HV supply to large developments
- Authority Applications, Negotiations and Approvals
- Assistance with Construction Tenders
- Co-ordination of Other Services and Stakeholders



2. Subdivisions:

R&H offers design services for both Residential and Commercial & Industrial (C&I) subdivisions. These range in size from simple '1 into 2' lot developments through to significant, multi-stage developments that comprise over 1,000 lots.

Technical Capabilities:

- Concept Design
- Detailed Layout and Reticulation Design
- Master Planning & Engineering Reports for HV supply to large developments
- Authority Applications, Negotiations and Approvals
- Assistance with Construction Tenders
- Co-ordination of Other Services and Stakeholders
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- Project Estimation and Packaging



LCC – Dual Padmounts



Yarrabilba – P4 under construction



LCC – Outdoor Substation (Internal)



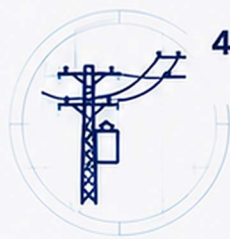


3. Network Planning:

R&H offers planning services for customer driven DNSP relocation works, which include both overhead and underground, across LV, 11kV, and 33kV networks. Our network planning team has proven ability completing several major projects in South East Queensland, working on behalf of Energex.

Technical Capabilities:

- Concept Planning
- Conflict Register Creation
- Estimation, both High Level and Detailed
- Scope of Work Creation
- Authority Negotiations and Approvals
- Co-ordination of Other Services and Stakeholders
- Project Estimation, Staging and Packaging



4. Distribution:

R&H offers planning and design services for Electricity Distribution networks, which include both overhead and underground reticulation, across LV, 11kV, 33kV and 66kV networks. Our distribution team has demonstrated excellence, designing distribution projects right across Queensland, working as an A rated consultant for both Energex and Ergon.

Technical Capabilities:

- Concept Planning and Design
- Geo-Spatial Survey and Data Capture
- Detailed Design
- Authority Negotiations and Approvals
- Property Owner Negotiations and Approvals
- Supply Agreements
- Co-ordination of Other Services and Stakeholders
- Project Estimation and Packaging



Power Networks – Key Projects

Delivering safe, reliable and future-ready power network solutions for customers, communities and infrastructure across Queensland.



01 Large / Major Customer Connections:

Key Projects:

- Royal Brisbane & Women's Hospital
- Cross River Rail
- Redlands, Caboolture & Redcliffe Hospitals
- New Coomera Hospital
- UQ Student Accommodation, St Lucia
- HVC 11kV Upgrades, UQ Gatton
- Next DC Data Centre, Fortitude Valley
- VAXXAS, Hamilton



02 Subdivisions:

Key Projects:

- Yarrabilba, Logan City
- Springfield Rise, Ipswich
- The Village, Jimboomba
- Woodlinks Village, Collingwood Park
- Beachside Dunsdown Beach, Hervey Bay



03 Network Planning:

Key Projects:

- Gateway Motorway and Bruce Highway Upgrades
- Coomera Connector Highway Duplication
- Beams Road, Carseldine Upgrade Rail Level Crossing
- Boundary Road, Coopers Plains Upgrade Rail Level Crossing
- OHUG Relocation – Muckerts Lane and McCullins Lane, Vernor



04 Distribution:

Key Projects:

- REPEX New 11kV Feor South – Jimboomba
 - 5.1km OH 11kV / LV Reconductor
 - 2.0km UG 11kV/LV Cable Install
 - 30+ Pole Replacements
 - 10 x 11kV OH Switch Upgrade / Install
- RELOH Coomera Connect – Coomera
 - Detailed design across northern, central and southern parcels
 - OH Pole and Conductor Realignment / Recovery / Replacement
 - UG Cable Install / Recovery
 - Pole Replacement / Recovery / Relocation
 - UG Plant Replacement / Recovery / Relocation
- AUGMENTATION New 11kV Fdr East – Wellington Road
 - 1.1km OH 11kV Reconductor
 - 1.0km UG 11kV Cable Install
 - 3 x UG Concrete Pit Install
 - 4 x 11kV OH switch Upgrade / Install
 - 1 x 11kV UG RMU install
- CTS / CTG rectification works
 - 250+ Rectification projects across Energex and Ergon Energy in the last two years



Integrated Consulting Engineering,
Power Networks, Electrical Contractors
and Civil Contractors



Electrical Contractors

Roesner & Hamilton Electrical Contractors specialise in the design, installation, and commissioning of road and pathway lighting, Intelligent Transport Systems (ITS), and traffic signal infrastructure. They deliver comprehensive lighting solutions that meet Transport and Main Roads (TMR) and local authority standards, focusing on safety, energy efficiency, and long-term performance. Their expertise covers all stages of LED lighting projects—from foundations and pole erection to electrical connections and smart lighting integration—with advanced control systems that support smart city and sustainability objectives.

In addition, Roesner & Hamilton Electrical Contractors provide end-to-end ITS and traffic signal services, including electronic signage, vehicle detection, CCTV systems, and fibre optic communications networks. Their team installs, upgrades, and maintains traffic signals and transport technologies to ensure safe, reliable, and efficient traffic flow. All projects are carried out in compliance with TMR and AS/NZS standards, with rigorous testing and commissioning to guarantee system quality, reliability, and performance.

TECHNICAL CAPABILITIES



ROAD PATH & LIGHTING

- Design, installation, and commissioning of road and pathway lighting to TMR and local authority standards
- Delivery of complete LED lighting systems, including:
 - Foundation installation and pole erection
 - Electrical reticulation and luminaire mounting
 - Connection to distribution networks
- Use of advanced LED technologies for improved illumination, energy efficiency, and extended service life
- Integration of smart lighting controls, including dimming, motion/daylight sensors, and remote monitoring systems
- Real-time fault detection and optimisation through wireless or networked platforms
- Compliance with smart city and sustainability objectives
- Comprehensive testing and commissioning in line with AS/NZS 1158, AS/NZS 3000, and TMR standards, including:
 - Insulation resistance and continuity testing
 - Earthing verification and photometric validation
 - Full system performance and reliability checks prior to handover



INTELLIGENT TRANSPORT SYSTEMS

- **Electronic Signage:** Variable Message Signs, Lane Use Management, and speed advisory systems.
- **Vehicle Detection:** Inductive loops, radar detection, and ANPR technology for accurate traffic monitoring.
- **Communications Networks:** Fibre optic and wireless systems for high-speed, reliable data transfer.
- **CCTV Systems:** High-definition surveillance installation and integration for traffic and security monitoring.





Traffic Signals

- **Traffic Signal Installation:** Complete electrical and civil works for new intersections, including pole erection, cabling, pit and conduit installation, and controller commissioning.
- **Upgrades & Modifications:** Replacement of signal hardware, controller upgrades, and configuration of adaptive signal control systems.
- **Preventative & Corrective Maintenance:** Routine inspections, fault diagnosis, repairs, and testing to maintain system reliability and compliance.
- **Testing & Commissioning:** Verification of wiring, phasing, and communications to ensure safe and efficient operation.

Key Projects:



1 Smart LED Road Lighting Project Stages 1-3

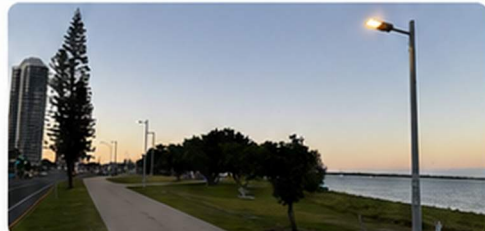
The R&H Electrical Contractors team have proudly completed 3 stages of the LED Street Lighting Upgrade Project across the South Coast Region. Our crews installed over 18,000 new high-efficiency LED luminaires and more than 4,100 smart lighting controllers on various key roads – improving visibility, safety, and sustainability for local communities. Our team worked through the night to minimise traffic impacts and ensure the project was completed safely and efficiently. The result?

- Brighter and more uniform lighting for motorists and pedestrians
- Significant reduction in energy use and maintenance costs
- Smart control capabilities that enhance monitoring and fault response
- A safer, more sustainable road network for years to come



2 Quota Park Lighting Upgrade – Biggera Waters

Roesner & Hamilton Electrical Contractors delivered a comprehensive lighting upgrade along the Broadwater Foreshore at Biggera Waters. The project involved the installation of modern LED luminaires, new underground excavation, and cabling across 4,000+ metre section of shared pathway within Quota Park. The project was carefully managed to maintain public access, with all works completed under live pedestrian and cyclist conditions. Through effective staging and safety management, the team achieved minimal disruption to park users while enhancing the amenity, safety, and visibility of this key community corridor.



3 Variable Message Signs and Road Condition Information Signs

Roesner & Hamilton successfully delivered multiple Traffic Variable Message Signs (VMS) and Road Condition Information Signs (RCIS) supplied by :LED across the Toowoomba and Goondiwindi regions. The project formed part of an initiative to enhance road safety and improve the communication of real-time traffic and environmental conditions along key regional transport corridors in Queensland.

Our scope of works included the full electrical installation, integration, and commissioning of the new systems, along with associated civil works and functional validations. All works were completed in accordance with Transport and Main Roads (TMR) Specifications and relevant Australian Standards, ensuring system reliability and compliance with state network requirements.

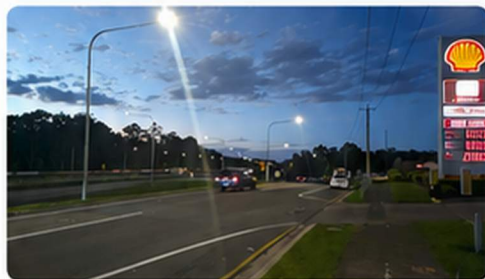


4 Pacific Motorway (M1) – Exit 79 Lighting Upgrade, Mudgeeraba

Roesner & Hamilton completed the lighting upgrade works at Exit 79 on the Pacific Motorway (M1) in Mudgeeraba, delivering improved illumination and safety outcomes for one of South East Queensland's busiest motorway interchanges.

The project scope involved the removal of existing High-Pressure Sodium (HPS) luminaires and the installation of new energy-efficient LED lighting systems. Works were undertaken within a high-traffic environment, requiring detailed traffic management planning and night works scheduling to minimise disruption to motorists.

All electrical installation and commissioning activities were carried out in accordance with Transport and Main Roads (TMR) specifications and relevant Australian Standards. The completed upgrade has significantly enhanced visibility, reduced maintenance requirements, and contributed to safer night-time driving conditions for road users.



5 City of Gold Coast Wireless Network

Roesner & Hamilton delivered multiple projects supporting the expansion of the City of Gold Coast's Surf Network free public Wi-Fi system. Works included the installation of wireless access points, communication cabling, and power infrastructure across key sites such as the Oceanway between Surfers Paradise and Broadbeach and the new Greenheart parklands in Robina.

These installations enhance network coverage and connectivity across high-traffic public areas, contributing to improved digital accessibility and the city's broader smart technology initiatives.



CIVIL CONTRACTORS

Roesner & Hamilton Civil Contractors is part of the R&H Group, a multi-disciplinary team delivering integrated engineering, civil, and electrical solutions across South East Queensland. Backed by the expertise of our consulting engineers and electrical contracting business, we offer a unique end-to-end capability – from planning and design through to civil and electrical construction.

We are a trusted partner for government and private sector clients, providing reliable, high-quality services that keep critical infrastructure projects moving.



Technical Capabilities:



Civil Contracting

We deliver a wide range of civil construction services with a focus on safety, quality, and efficiency.

- **Road Works** – kerb and channel, pavements, asphalt surfacing, and associated civil infrastructure.
- **Concrete** – footpaths, pedestrian ramps, driveways, structural footings, and hardstand areas.
- **Earthmoving** – excavation and site preparation services carried out by licensed, experienced operators.



Electrical and Utility Installation

Through our civil and electrical expertise, we offer a seamless approach to utility and infrastructure delivery.

- Conduits, pits, and footings for traffic signals, lighting, and CCTV.
- Electrical and communications installation, upgrades, and repairs.
- Integrated civil and electrical delivery to reduce project risk and interface challenges.

Key Project



The People's Esplanade Pop-Up in Surfers Paradise – Roadworks Package

Design and construction of roadworks package to enable road changes including the closure of the Surfers Paradise Esplanade as part of the 'The People's Esplanade Pop-Up' in Surfers Paradise for the City of Gold Coast.

The works included road widening, new kerb and channel, pavement, asphalt surfacing, signage and pavement markings.

