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## **About SDG**

### We listen, understand and adapt

SDG are providers of consulting services for Hydraulic Design to the building and construction industry. We continually exceed our client's expectations in delivering successful projects. We listen, understand and adapt our thinking on each project to deliver real world outcomes providing value to our clients and their partners.

#### **Mission**

Deliver understanding through practical and efficient hydraulic services design utilising the latest technology and real world thinking to create value for our clients in both system and price.

" Utilising the latest technology and real world thinking"



#### **Concept Planning and Feasibility**

Thinking of building, developing or preparing a Development Application. Are you aware of legislative and code requirements for space and clearance requirements of hydraulic systems. These items can be identified at this early stage and reduce impacts on appearance and layout in the future.

#### **Plumbing Approval Documentation**

Are you undertaking plumbing and drainage works? You will require a plumbing and drainage approval from your local authority before undertaking any work on site. We will prepare and lodge these plans for you as part of preparing your hydraulic services design.

#### Design and Documentation for Tender and Construction

SDG can prepare fully documented 'hydraulic services design' packages ready for tendering purposes and construction. This ensures each contractor is providing exactly what is designed and documented.

#### **Design and Construct Packages**

SDG are leaders in the design and documentation for plumbing sub contractors to assist in winning and delivering design and construct contracts. Our designs are industry proven, cost efficient and innovative. We provide co-ordinated design solutions and leave no stone unturned to ensure there are no cost overruns or over sights during the design process.

#### **For Plumbing Contractors**

We will work with you throughout the tender process to ensure your submission covers all necessary aspects of the development, provide value engineering and cost savings where available and partner with your team to deliver a successful project.

#### For Building Owners and Contractors

If you require documentation to enable a competitive tender process and ensure all sub contractors are meeting your specific project requirements, SDG can provide documentation to allow you to obtain competitive pricing.

#### **Fire Brigade Approval Documentation**

Building and development over 500sqm will require a dedicated fire system to ensure the occupants safety in the event of a fire. These systems are subject to the review and approval of the local fire authority. We can prepare documentation for approval by your local fire authority for your development or building.

#### **Green Star and LEED**

Australia is at the forefront of the green building and sustainable building practices. LEED certification is the most widely used green building rating system in the world and means a healthier, more productive design with reduced stress on the environment.

#### **Contract Administration**

At SDG our experts can visually inspect construction works at varying stages, provide construction advice and ensure your construction is running smoothly. We can answer and provide responses to requests for information during the construction process. We will also ensure the hydraulic services are installed in accordance with the design documentation, Australian Standards and local authority regulations.

#### **Penetration Drawings and Design**

SDG offer plumbing contractors the option to provide penetration drawings for construction and set out of services. We pride ourselves on accuracy and understand the need to ensure services are co-ordinated. We do not accept 99% as good enough.

#### **As Constructed Documentation**

We offer clients our services to undertake 'as constructed' documentation in both AutoCAD and Revit. We use information provided to us to create accurate records of installed services.

#### **Existing Conditions Reports**

Thinking of undertaking a refurbishment or upgrade. Need an assessment of existing systems and infrastructure. An existing condition report will help identify elements which may need replacement, upgrading, are non compliant or require preventive maintenance to ensure building systems are compliant and function efficiently.

#### **Due Diligence Inspections**

Looking at purchasing an existing building or asset. A Due Diligence report will provide an assessment of the existing systems, identify areas of non-compliance and highlight potential costs of system upgrades and replacements prior to purchase.

## **Key Personnel**



#### Director - Zach Nash

Zach has over 12 years' experience in the design, documentation and construction of hydraulic systems and services. Zach is a full member of the Association of Hydraulic Services Consultants Australia (AHSCA) Zach was named by the AHSCA as the Hydraulic Consultant of the Year in 2013. He is currently licensed by the QBCC and NTBPB to certify hydraulic services design. He has worked on numerous large scale developments gaining invaluable experience in complex hydraulic services. Zach has extensive knowledge of Revit with over 10 years experience modelling hydraulic services.

#### **Previous Project Experience**

- 480 Hay Street Precinct
- Magnoli Apartments
- Botania
- Kilcoy Pastoral Company
- The Lakes
- One30 Hyde
- Super Amart Distribution Centre
- Royal Flying Doctor Service Darwin
- Bonalbo Hospital
- Lite N Easy Sydney
- Yeshiva College
- 272-274 Hedges Avenue, Mermaid Beach
- Northcliffe Terraces
- Autohaus (Newstead)
- 6-8 Beverly Avenue
- TriCare Sunnybank Hills Aged Care



#### Partner - Ben Smith

Ben has over 18 years' experience in design, construction and project management of hydraulic services. In this time Ben has designed and delivered many landmark projects whilst working closely with contractors and developers to ensure function, performance and build-ability criteria are met and exceeded. Ben started in the industry in the late 90's working for tier 1 commercial plumbing contractors gaining 6 years hands-on experience which has benefited Ben's design process with valuable understanding of the installation process.

#### **Previous Project Experience**

- Western Sydney Stadium
- 60 Martin Place
- Metronode Silver Water (Data Centre)
- Mercato on Byron
- Oracle, Broadbeach
- Jewel, Surfers Paradise
- Rhapsody, Surfers Paradise
- Westfield Garden City

- Indooroopilly Shopping Centre
- Robina Town Centre
- Gold Coast University Hospital
- Hope Island Aged Care
- Robina Medical Centre
- Star Casino Main Gaming Floor Expansion
- Dreamworld Coomera
- Wet n Wild Coomera



#### Design Manager – Dean Walkley

Dean has over 15 years' hydraulic and civil design experience. Dean holds a Bachelor's degree in Civil Engineering and has been involved in numerous complex projects. Dean has extensive design co-ordination and management experience and has worked for large contractors in similar roles.

#### **Previous Project Experience**

- The Retreat Sydney 1200 Apartments
- Careflight Darwin
- AB Patterson College
- All Saints College
- Ascot Green

- Riverlight Apartments
- St George Community Housing
- MacGregor State School
- 84 The Esplanade Surfers Paradise
- The Lanes

**Documentation Manager - Jordan Humphrey** 

Project Administrator - Matthew Price



## **Our Capabilities**

Fire Hose Reels Systems

Our team are qualified specialists and industry leaders in hydraulic services design.

Our experienced team are committed to providing exceptional service and delivering high quality design solutions in the following specific fields;

Sanitary Drainage and Plumbing

Trade Waste Drainage and Pre-treatment

Stormwater Drainage

Fire Hydrant Systems

LPG and Natural Gas Systems

Rainwater Harvesting and Reuse

Roof Water Drainage

Subsoil Drainage

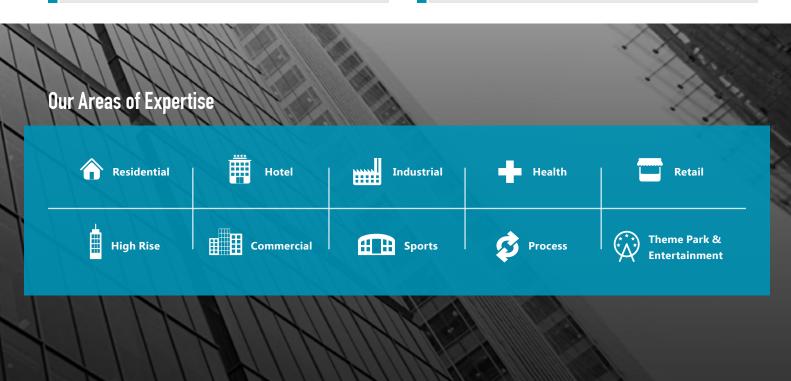
Hot Water Generation

Hot, Cold and Tempered Water Systems

Filtered, Recycled and Non Potable Water Systems

Wash Down Systems

Dust Suppression Systems





### **Insurances**

SDG are covered for both Professional Indemnity and Public Liability. We are covered to undertake 'Hydraulic Engineering.' In addition, we hold current licenses with the Queensland Building and Construction Commission (QBCC) and the Northern Territory Building Practitioners Board (NTBPB). As a requirement of these licenses we are required to hold the above insurances.

### **Our Technology**

## SDG are at the forefront of Building Information Modelling for Hydraulic Design Services.

We have been using BIM software to create and document our designs for over 10 years. We have attended international and national Revit Conferences in the United States and Australia to ensure we remain at the front of innovation and software development in Hydraulic Services.

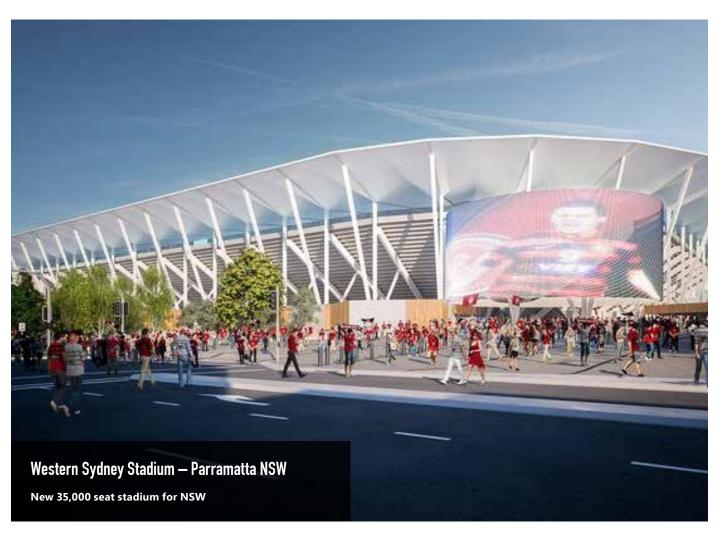
We utilise Revit throughout the design and construction process to ensure a smooth, practical, efficient, coordinated and collaborative design is delivered to the client and contractor ready for construction. Revit enables us to ensure both the design and the construction team have a clear understanding of what is required and to assist in the delivery of a successful project. We also recommend the model be updated with the correct 'As Constructed' Information to facilitate ongoing building maintenance and facility management.

### **Quality Management**

As part of our design and documentation process (which includes Revit design), we also undertake internal Quality Assurance checks at each stage of the project.

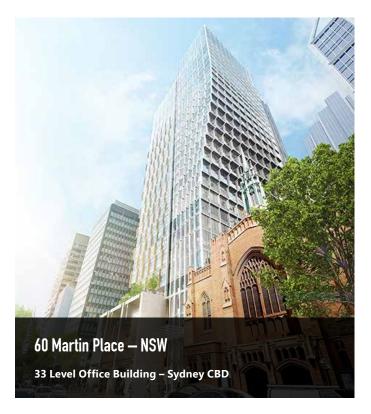
Quality Assurance checks are undertaken by a separate designer (not involved in the project) before and during each significant milestone. The process is recorded on our internal system and can be made available to the client at any stage during the course of the project. The process utilises a comprehensive check list to ensure our designs are fit for purpose and tailored to each client individually.



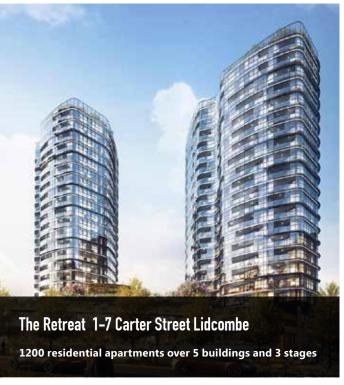




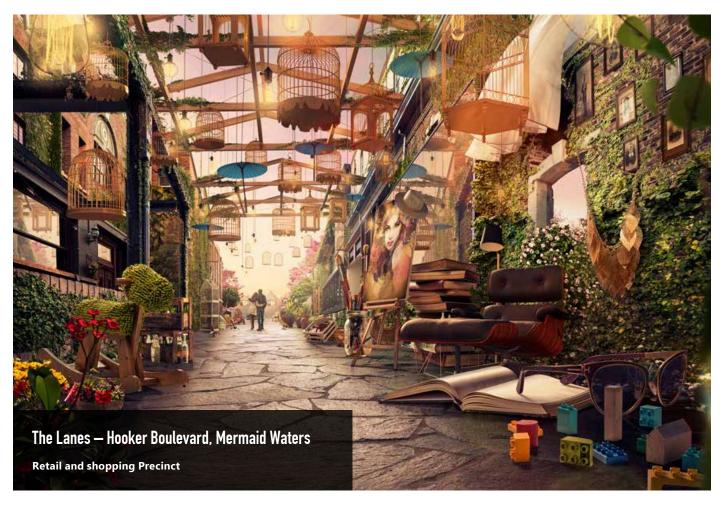






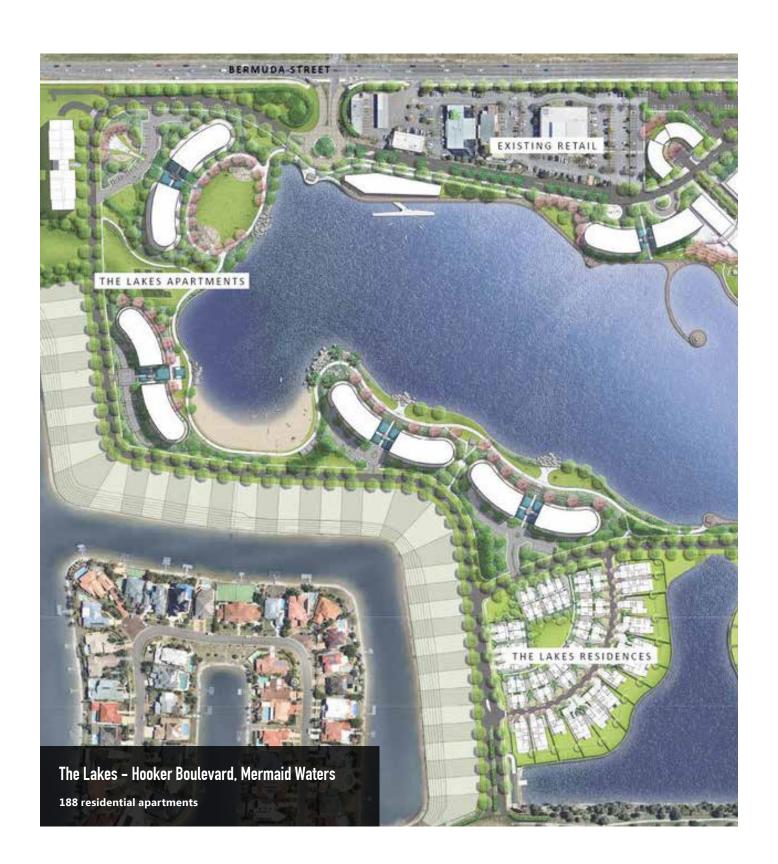








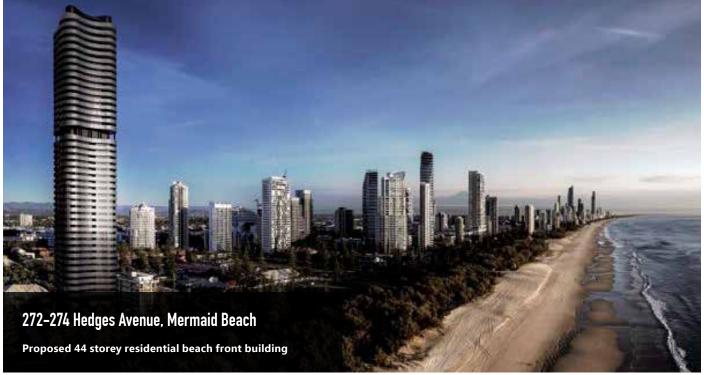


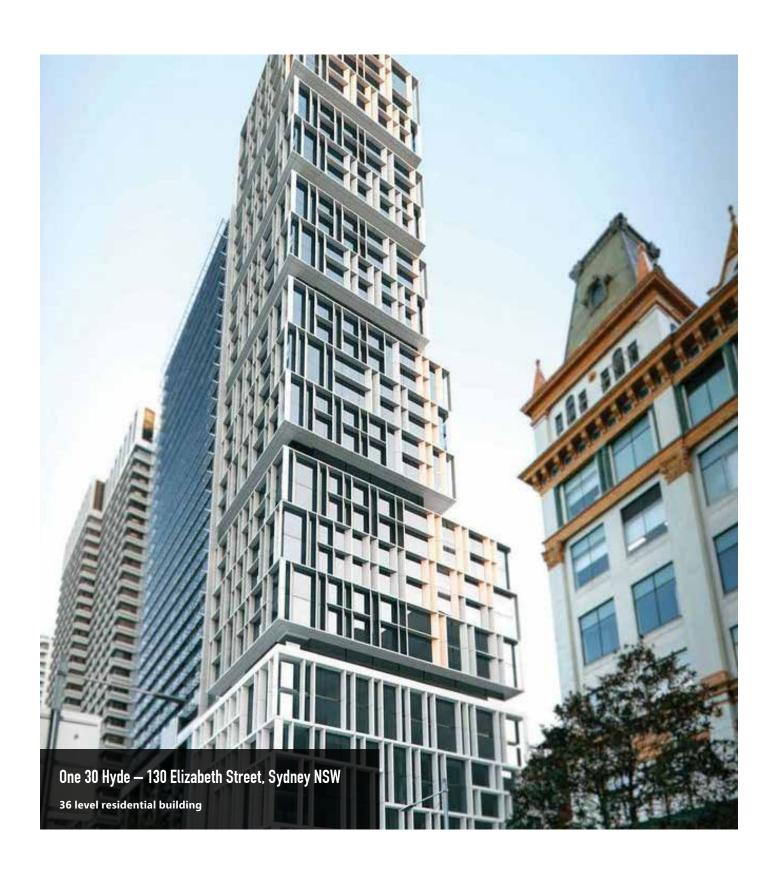






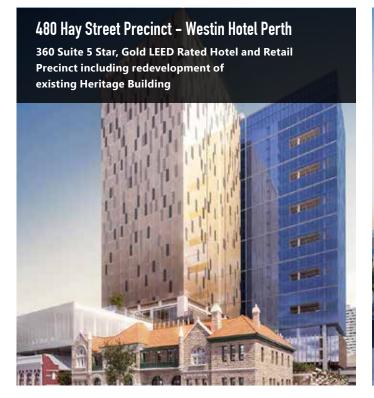










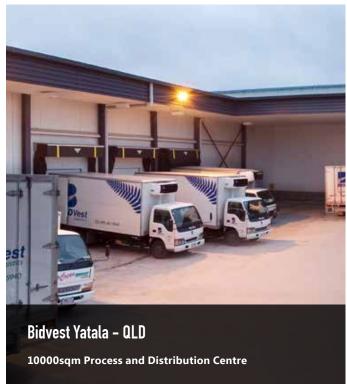


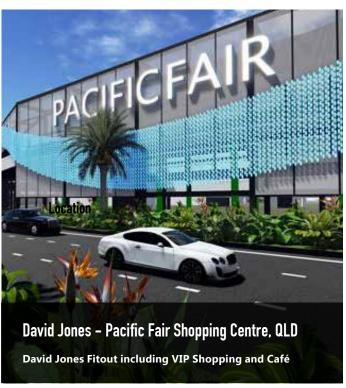






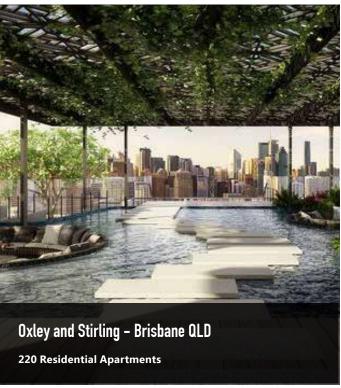




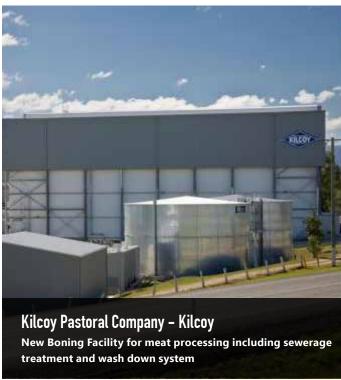


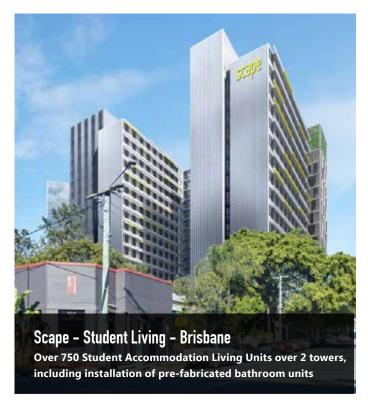




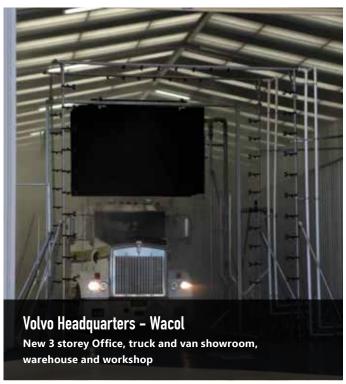














# Previous Project Experience

#### Residential

- Oracle, Broadbeach
- Jewel, Surfers Paradise
- Rhapsody, Surfers Paradise
- Hamilton Harbour, Hamilton
- 113 Commercial Road,
- Orion Towers, Surfers
- Paradise
  7.9 Northeliffo Torras
- Surfers Paradise3 Northcliffe Terrace, Surfers
- ParadiseEleve Apartments, Carrara
- Hamilton Ave Apartments,
- Hamilton Ave Apartments, Surfers Paradise
- Rivera Apartments, Surfers Paradise
- Grand Central, Southport
- Northcliffe Terraces
- Ascot Green
- St George Community Housing
- Vue Apartments, Broadbeach

#### **Retail / Commercial**

- Westfield Garden City, Mt Gravatt
- Indooroopilly Shopping Centre, Indooroopilly
- Pacific Fair, Broadbeach Waters
- Robina Town Centre, Robina
- Harbour Town, Biggera Waters

#### **Hospitality / Entertainment**

- Jupiter's Main Gaming Floor Expansion
- Twin Towns RSL, Tweed Heads
- Jewel, Surfers Paradise
- Currumbin RSL
- Burleigh Bears Club
- Burleigh Sports Club
- Brisbane City Hall Restoration
- KSD1 Hamilton Harbour
- Dreamworld, Coomera
- Wet'n'Wild, Coomera
- Super Amart Distribution Centre
- Royal Flying Doctor Service
   Darwin
- Autohaus (Newstead)
- Careflight Darwin
- The Lanes

#### **Health & Aged Care**

- Gold Coast University Hospital
- Lake Street Aged Care
- Hope Island Aged Care
- Grand Pacific, Southport
- Robina Medical Centre
- Bonalbo Hospital NSW

#### Mining

- Yarrabee Site Facilities, Black Water
- Jillenbah Load Out Facilities, Black Water
- Boonal Join Venture Dust Suppression, Black Water
- Cameby Downs Site Facilities and HV Wash Pad

#### Education

- SEQ Schools PPP
- Griffith University, Nathan, Gold Coast, South Bank and Logan Campus
- St Hilda's School
- All Saints Anglican College
- St Andrews Lutheran School
- AB Patterson College