



Engineering Services

WHY DO WE NEED ENGINEERING?

Engineering is an integral part of any project development. Engineering is one of the catalysts needed to convert a concept idea in one's head to the finished article on the ground.

Civil and Environmental Engineers deal with the design and construction of:

- **Transportation Facilities** (roads, bridges, carparks, kerb & channelling, footpaths, driveways).
- **Public Health Facilities** (hydrology, water supply, sewerage, drainage, waste disposal, recycling).
- **Earthworks** (Dams, levee banks, retaining walls, trenching, open drains and channels).
- **Environmental Management** (water resources, pollution control).
- **Environmental Impact Assessment** and environmental auditing to minimise the effects of constructed facilities on the natural environment.

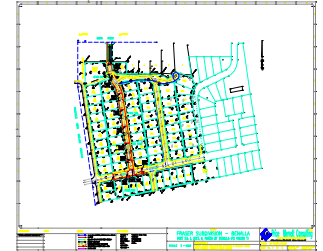
Price Merrett Consulting P/L Offers:

- **Professional Service**
PMC staff are professionally qualified and trained surveyors, engineers and irrigation designers.
- **Experience**
PMC has provided quality service to the water and irrigation industry throughout South Eastern Australia for over 23 years.
- **Accreditation**
PMC staff hold appropriate certification and accreditation.
- **Independence**
PMC is not aligned with any contractors, suppliers or product line.
- **Technical Innovation**
PMC continually invests in latest technology in hardware and software.

Price Merrett Consulting has experienced Civil and Environmental Engineers who can undertake a variety of civil engineering projects and carry them through from the preliminary phases to completion.

Areas of expertise include:

- **Road Design and Construction** (including kerb and channelling, footpaths, driveways, traffic islands and roundabouts).
- **Carpark design and construction.**
- **Stormwater Drainage and Retention Basin Design and Construction** (including stormwater management, catchment management, stormwater management plans, flood plain management plans, urban stormwater quality management plans).
- **Water Reticulation Design and Construction** (including trunk and reticulation pipelines, ground and elevated storages, pipeline renovation and rehabilitation).
- **Sewer Reticulation Design and Construction** (including gravity and pressure reticulation systems, small sewer pump station designs, effluent disposal systems, pipeline renovation and rehabilitation).
- **Earthworks Design and Construction** (including dams, levee banks, retaining structures, trenching, drains and channels).
- **Subdivision Development and Layout** (including layout advise, feasibility studies, cost estimating, design and plans, Council and other authorities submissions and liasing, project management, site construction supervision, "as constructed" plans).
- **Contract Administration** (including tender documents and specification writing, calling tenders, tender evaluations, contract management and administration, contract payment reports).
- **Project Management**
- **Small Structures Design and Construction**
- **Engineering Surveys and Site Assessments**



Visit us @ www.pricemerrett.com.au

ENGINEERING SERVICES

PRICE MERRETT CONSULTING ENGINEERING PROCESSES

Client Liaison

- Close liaison with client throughout project on progress and performance
- Advice and guidance on implications of all structural engineering matters
- Preparation of project progress reports

Feasibility and Planning

- Advice on civil design options for preliminary cost estimates
- Assist in selection of other specialist consultants e.g. Surveyor/Town Planner
- Identification of engineering constraints and influences on the planning process
- Assistance to client in the planning and layout of the project
- Preparation of feasibility estimates
- Assisting in environmental impact assessment
- Instruction / coordination of sub-consultants (e.g. Geotechnical, landscaping)
- Preliminary liaison and negotiation of services with Councils and other authorities
- Arrangement of aerial photography to assist in route planning

Preliminary Design

- Develop alternative preliminary civil designs and/or routes to enable client to determine the most economic and viable alternatives
- Refinement of design options
- Assistance in determination of preferred design solution
- Review of preliminary estimates after survey and Geotechnical information available
- Arrangement of aerial photography to assist in route planning

Documentation

- Complete design of all civil elements
- Detail drawings and technical specifications for tender/construction
- Detail engineering design and documentation for roads, stormwater and roof water drainage, water supply and sewerage to Authority approval
- Calculation and scheduling of quantities
- Preparation of detailed estimate of cost
- Preparation of resumption plans

Authority Approvals

- Negotiation with Local Authorities for approval of civil engineering designs
- Liaison and negotiation of services with Councils and other Authorities during design and construction and obtaining Authority approvals
- Provide Certificate of Completion in accordance with conditions of Authority Approval

Tendering and Contract Administration

- Prepare documents
- Call tenders
- Evaluate tender submissions
- Recommendations to client on tender submissions
- Letting of tender and contract administration of project
- Certification of claims

Site Services

- Provide site services during the construction phase as follows:-
 - Checking of test results for civil construction materials
 - Conduct site inspections and report on site progress
 - Ensure the project proceeds in accordance with the intent of the civil design
 - Attend site meetings as required
 - Co-ordinating design activities with site requirements
 - Preparation of "as constructed" plans.

Teamwork With Other Consultants

- Maintain close liaison with other consultants involved, throughout project (e.g. project manager, architect, quantity surveyor, service consultants)

Post-Project Follow-Up

- Follow up with client to establish that all services provided were in accordance with client expectations

Price Merrett Consulting Clients:

- State Gov't Departments (including VicRoads, North Central Catchment Authority, Department of Primary Industries).
- Local Governments: (including Gannawarra Shire, Swan Hill Rural City, Loddon Shire).
- Water Authorities: (including Goulburn Murray Water, Lower Murray Water, Coliban Water, Sunraysia Rural Water Authority, Murray Irrigation Limited).
- Property Developers
- Facility Managers: (including Timbercorp, Terrapee Vineyards).
- Contractors
- Farmers



Price Merrett Consulting PTY.LTD.
CONSULTING SURVEYORS, ENGINEERS, IRRIGATION DESIGNERS A.C.N. 006 354 427

Kerang Office
P.O. Box 313
Kerang Vic 3579
Ph 03-5452 2490
Fax 03-5452 2566
Email: pmc@pricemerrett.com.au

Swan Hill Office
P.O. Box 1172
Swan Hill Vic 3585
Ph 03-5032 3685
Fax 03-5032 2472
Email: pmash@pricemerrett.com.au

Deniliquin Office
292 George Street
Deniliquin NSW 2710
Ph 03-5881 5937
Fax 03-5881 1399
Email: pmc@pricemerrett.com.au