

**Name:** Harold Barton CARSELDINE  
**Qualifications:** Bachelor of Engineering (Civil)  
Master of Engineering Science

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### **Professional Experience**

After a career of more than 26 years served in the Department of Main Roads and Queensland Transport in a variety of locations throughout Queensland, Barton commenced as a Senior Civil Engineer with Graham Scott and Associates Pty Ltd in July 1997.

*7 July 1997 to date*

**Senior Civil Engineer**  
**Graham Scott & Associates Pty Ltd**

Significant projects include:

- Queensland Magnesia (Operations) – design of haul road 10km long between KG1 and KG2 Mine, Kunwarara
  - Curragh Queensland Mining Ltd – project management of expansion of Single Quarters accommodation in Blackwater town, and establishment of Temporary Town Camp
  - Emerald Shire Council – design for upgrading of Waste Transfer Station
  - Emerald Shire Council – Emerald Airport – planning and design of upgraded carparking areas, aprons and roadways
  - Rockhampton District Saleyards Board – civil engineering design and co-ordination of \$3.5m Gracemere Exhibition Centre and \$1.8m Austadium Projects
  - Dee River Bridge for Banana Shire Council
  - Design of upgraded intersections on Capricorn Highway, Gracemere at Saleyards, Langley Street and Malchi-Nine Mile Road for Department of Main Roads
  - Sealing of 30km of Haul Road for Heavy Coal haulage, Yarrabee Coal Company, Yarrabee
  - Burnett Highway, Banana Shire – upgrading of floodways with culverts on 4 sites between Biloela and Jambin for Department of Main Roads
  - Nogoia River Bridge for Emerald and Bauhinia Shire Councils
  - Timber bridge assessment for Livingstone Shire Council
  - QAL Road – Repairs to BSL Pipeline subsidence
  - Potline 1 Road Repair Assessment, Report, and Design for Reconstruction in Concrete
  - Landfill – Boyne Smelters Limited
  - Spillway Upgrade – Boyne Smelters Limited
  - Eidsvold – Theodore Road Replacement of Timber deck culverts – Concept Report and Design
  - Dawson Highway Calliope Shire Replacement of Timber deck culverts – Concept Report and Design
  - Dawson Highway Banana Shire
    - Upgrading of Dawson Highway/Burnett Highway
    - Rehabilitation of Dawson Highway section east of Moura
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- Road Safety Audits for Department of Main Roads Rockhampton District, various Councils, and mining companies in Central Queensland
- Roundabouts at Harris/Retro Street, Emerald  
Theresa/Anakie Street intersections, Emerald
- Geometric design of extension of Glenlyon Road from Botanic Gardens to Kirkwood Road for Gladstone City Council
- Banana Shire Council – Acting as Director of Engineering Services for the period May 1998 to January 1999 (part time)
- Calliope Shire Council – Acting as Director of Works to supervise \$900 000 Department of Main Roads project, constructed on the Gladstone – Monto Road at Many Peaks (part time)
  
- Round Hill Road Planning Study – Miriam Vale Shire Council
- Highway Planning Study, Miriam Vale town – Department of Main Roads
- Burnett Highway, Banana Shire – Upgrading of Nine Mile Creek floodway
- Rockhampton City Council – Moore’s Creek Road/Kerrigan Street/Feez Street design of upgraded roundabout
- Rockhampton City Council – design for reconstruction of various streets
- Gladstone City Council – Don Young Drive road and railway overpass bridges design
- Queensland Magnesia (Operations) – Access road 8km long and intersection design for KG2 Mine, followed by construction supervision

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*1 July 1993 to 4 July 1997*

**Manager (Infrastructure Delivery)**

**Department of Main Roads**

**Central District**

**Rockhampton**

As a result of Road Reform and Commercialisation, following restructuring of the District organisation, Barton was responsible for establishing the Infrastructure Delivery Business Unit.

Major responsibilities:

- Delivery of the District Roads Infrastructure Program/Sub Programs, to obtain best value for money. This involved Project Management of detailed Design and Construction phases of each project on the Program/Sub program, utilising multi disciplinary project teams.
- Program and Expenditure reviews.
- Engineer for the Contract for all projects delivered by Contract, which involved complete responsibility for contract administration, including Main Roads Bid projects, Agreed Price Performance Contracts, Agreed Price Internal Contracts, sole invitee Road Maintenance Performance Contracts, and Road Maintenance Contracts.
- Post Construction Safety Audits.
- Business and Financial planning.
- Quality Assurance implementation, including documenting Quality Manual for accreditation.
- Occupational Health and Safety, Human Resources, Training and Environmental issues management for the unit.
- Monitoring annual Productivity Gains and Contestability Levels for Program delivery to ensure the targets were met.
- Implementing the Roads Enterprise Development Agreements (EDA) within the unit, including implementation of Workplace Reform and Self Directed Work Teams.
- Acted as District Director when required. This occurred almost 50 percent of the time over the period 1994 to 1996.

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*21 April 1992 to 1 July 1993*

**Manager (Construction Services)  
Queensland Transport  
Central District  
Rockhampton**

Major responsibilities:

- Overall management of Construction and Maintenance Programs for the District Road Network, on behalf of the District Manager. Management of Maritime and Passenger Transport Programs in the District for Queensland Transport.
- Program and Expenditure reviews.
- Engineer for all Contract Projects, responsible for complete contract administration in the District.
- Quality Assurance implementation.
- District Safety management.
- Technical staff recruitment, training, and staff counselling.
- Acted as District Manager when required.

*8 December 1988 to 21 April 1992*

**Principal Engineer  
Main Roads Department  
Mackay District  
Mackay**

Major responsibilities:

- Overall management of Construction projects on the District Road Network, on behalf of the District Manager.
- Contract Administration for all Contract and Bid projects.
- Program and Expenditure reviews.
- Quality Assurance implementation.
- District Safety management.

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*24 October 1985 to 8 December 1988*

**Deputy District Engineer  
Main Roads Department  
North West District  
Cloncurry**

Major responsibilities:

- Overall technical management of Construction and Maintenance throughout the District, including implementation of technical policy and procedures.
- Preparation of works programmes and expenditure control.
- Quality Control, including management of Materials Testing Laboratory.
- Development of micro computer based Information and Road management systems including CHIMP, PMS and COSMIC.
- Supervision of Mechanical Engineer, Workshop and District Plant Fleet.
- District research and development.
- Contract administration.
- Recruitment, training and control of technical staff, and staff counselling.
- Weight of loads and indivisible load Permits.
- Program and Expenditure reviews.
- Acted as District Engineer when required, including three months from April to June 1988.

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*26 May 1983 to 24 October 1985*

**Executive Engineer  
Main Roads Department  
North West District  
Cloncurry**

Major responsibilities:

- Overall supervision of road and bridge construction in the District.
- Liaison with Local Authorities on Construction and Maintenance projects, and general road network issues.
- Direct supervision of Contracts, and major Day Labour projects.
- Training and supervision of engineers, foremen, and trainee construction technicians, and recruitment of technical staff.

*8 September 1980 to 26 May 1983*

**Engineer Division I  
Main Roads Department  
Central District  
Rockhampton**

Major responsibilities:

- Maintenance Engineer, which involved supervision of all District Maintenance operations. This included Ordinary and Special Maintenance Programming, scheme preparation, expenditure control, Direct control maintenance supervision, including timber bridge maintenance, and Divisional Bitumen and Linemarking gangs.
- Supervision of Local Authority controlled Day Labour road construction.
- Initial Project Management for Callide "B" Powerhouse Infrastructure Roadworks.
- Co-operation with outside organisations, other Government Departments, and Statutory authorities.
- Supervision of manufacture of prestressed concrete components for Main Roads structures at Humes Ltd. factory, Rockhampton.
- Preparation of Bids for Contracts, and supervision of the first Bid project in the District.

In addition, experience was gained in all aspects of road planning, design and construction.

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*1 January 1976 to 8 September 1980*

**Engineer Division I  
Main Roads Department  
Central Divisional Office  
Rockhampton**

*31 January 1975 to 1 January 1976*

**Engineer Division II  
Main Roads Department  
Central Divisional Office  
Rockhampton**

Major responsibilities:

- Overall supervision of bridge design and construction within Central Division including location, planning, preliminary design, foundation investigating and reporting, advising District staff on construction problems on site, liaising with Bridge Branch on design and construction problems encountered on site, and hydraulic and drainage investigations. A highlight of this experience was the initiation and completion of 24 bridges on the coastal route of the Bruce Highway between 1975 and 1981.
- Road planning reporting, including co-ordinating and report preparation on the Bowen Basin Coalfields - Study of Road Network requirements.

In addition, a variety of experience was obtained in preparation of estimates, construction programs, road design, and supervision of Day Labour and Contract road and bridge construction, throughout Central Division, but particularly for Central District.

*6 January 1971 to 31 January 1975*

**Engineer Division II  
Main Roads Department  
Special Projects Section  
Brisbane**

Major responsibilities:

- Investigation and design of foundations, substructure and superstructure for reinforced and prestressed concrete bridge structures, including the Riverside Expressway, Central Freeway and New Farm Bridge in Brisbane, and investigation and design of foundations and substructure for Neville Hewitt Bridge, Rockhampton.
  - Research investigation and design work on embankments constructed on soft foundations on freeway projects.
  - Some field supervision on major bridge contracts was also undertaken, including supervision of post tensioning operations on Captain Cook Bridge and supervision of piling and foundation footings on the Riverside Expressway.
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**Professional Affiliations**

Member of The Institution of Engineers, Australia No. 180478

Member of The Association of Professional Engineers, Scientists and Managers, Australia

Member of the College of Civil Engineers, The Institution of Engineers, Australia

Registered on National Professional Engineers' Register NPER-3

Registered Professional Engineer, Queensland No. 2855

Member of the Institute of Public Works Engineers, Australia, Queensland Division