



**Northern Region  
South East Queensland  
Joint Regional Councils**



Specification No. C101

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**QUEENSLAND  
DEVELOPMENT  
CONSTRUCTION  
SPECIFICATION**

**C101**

**GENERAL**



Contract No.

**GENERAL**

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# QUEENSLAND

# DEVELOPMENT

# CONSTRUCTION

# SPECIFICATION

  

## C101

  

# GENERAL

These Specifications have been tailored from the AusSpec Standard Specifications for use within Pine Rivers Shire Council, and in consultation with the Northern Region, South East Queensland, group of Councils.

This group includes Pine Rivers Shire, Redcliffe City, Caboolture Shire, Caloundra City, Maroochy Shire, Noosa Council and Cooloolool Shire.



### Amendment Record for this Specification Part

This Specification is Council's edition of the AUS-SPEC generic specification part and includes Council's primary amendments.

Details are provided below outlining the clauses amended from the Council edition of this AUS-SPEC Specification Part. The clause numbering and context of each clause are preserved. New clauses are added towards the rear of the specification part as special requirements clauses. Project specific additional script is shown in the specification as italic font.

The amendment code indicated below is 'A' for additional script 'M' for modification to script and 'O' for omission of script. An additional code 'P' is included when the amendment is project specific.

Amendment Sequence No.	Key Topic addressed in amendment	Clause No.	Amendment Code	Author Initials	Amendment Date
<i>EXAMPLE</i> 1	<i>Provision for acceptance of nonconformance with deduction in Payment</i>	<i>XYZ.00</i>	<i>AP</i>	<i>KP</i>	<i>2/6/97</i>
1	STANDARDS AND TEST METHODS	C101.05 Part 2	M	LDP/DKM	4/9/02
2	WORKING AREAS	C101.07 Part 4	A	LDP/DKM	4/9/02
3	WORK-AS-EXECUTED DRAWINGS	C101.11 Part 1,2,3	M	LDP/DKM	4/9/02
4	PROTECTION OF THE ENVIRONMENT	C101.14 Part 1 & 4	M	LDP/DKM	4/9/02
5	LIMITS ON NOISE	C101.17 Part 2 & 3	M	LDP/DKM	4/9/02
6	ANNEXURE C101-A (Council Drawing No. added)		A	LDP/DKM	4/9/02



**NORTHERN REGION SOUTH EAST QUEENSLAND  
JOINT REGIONAL COUNCILS  
QUEENSLAND DEVELOPMENT CONSTRUCTION  
SPECIFICATION C101 – GENERAL**

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## **SPECIFICATION C101 : DEVELOPMENT CONSTRUCTION – GENERAL PROJECT SPECIFIC INFORMATION**



### **PROJECT SPECIFIC INFORMATION**

#### **C101.01 LOCATION AND DESCRIPTION OF PROJECT**

EXAMPLE (TO BE COMPLETED BY COMPILER)

1. *The Works comprise the construction of a subdivision at North Arm Grove, Dubbo, Lots 16-90, D.P. 2315, in the Parish of Cork, City of Dubbo, NSW.*
2. *The subdivision involves the construction of five roads and the provision of services to 68 residential building sites.*
3. *Access to the subdivision is to be from Hastings Road and Gosford Circuit.*

#### **C101.02 EXTENT OF WORK**

1. Works under this Contract comprise the supply of labour, materials and plant to construct the Works. It includes but is not limited to the following items of construction which shall be carried out in their entirety in strict accordance with and to the true intent and purpose of, the Conditions of Contract, these Technical Specifications, the Drawings listed herein, and under the supervision of the Superintendent.

EXAMPLE (TO BE COMPLETED BY COMPILER)

##### **(a) General**

- *Provision for control, protection and safety of traffic during construction including notifications to and obtaining approvals from Authorities.*
- *Notification of all appropriate property owners adjoining the Works.*
- *Setting out the Works.*
- *Erosion and sedimentation control of the Works, including stockpile areas.*
- *Site clearing and grubbing. Topsoil to stockpile.*
- *Site regrading.*
- *Topsoil spreading and revegetation to disturbed areas.*

##### **(b) Roadworks**

- *Earthworks, including excavation and embankment construction.*
- *Stormwater drainage, including kerb and gutter, pipes, pits and headwalls.*
- *Sub-surface drainage.*
- *Pavement, consisting of unbound granular sub-base and base, bituminous primer seal, and asphaltic concrete wearing surface.*
- *Guardfence.*
- *Signposting and linemarking.*
- *Ancillary works, including medians, paved footpath, turfing and landscaping.*

##### **(c) Structures**

- *Crib retaining wall.*



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- *Bridge, single span, comprising driven prestressed concrete piles, prestressed concrete bridge beams, and cast-in-situ reinforced concrete headstocks and deck.*

**C101.02 EXTENT OF WORK Cont.**

**(d) Provision of Services**

- *Water supply, including pumping station.*
- *Sewerage services, including pumping station.*

**(e) Work by Others**

- *Provision of electricity and gas services to the subdivision will be undertaken by the relevant Authorities/Corporations.*
- *The excluded work will be the responsibility of the Principal and Utility Authorities/Corporations. Attention is drawn to the Conditions of Contract regarding the obligation of the Contractor to co-ordinate the works with any simultaneous and/or adjacent work by others. The Contractor shall liaise with these Contractors and Authorities/Corporations to avoid disruption, delays and possible conflict.*

**C101.03 SUBSURFACE CONDITIONS**

EXAMPLE (TO BE COMPLETED BY COMPILER)

1. *A geotechnical investigation was carried out during February 1992 for design purposes. A copy of the report from this geotechnical investigation is available for the information of the Contractor upon request to the Superintendent.*
2. *The Contractor's attention is drawn to the General Conditions of Contract Clause "Site Conditions". The Contractor should make its own assessment of the in-situ moisture content likely to be encountered at the actual time work is to be carried out.*

**Contractor to Inform Itself**

**GENERAL REQUIREMENTS**

**C101.04 DRAWINGS**

1. The Drawings which form part of the Contract Documents are bound in a separate volume.

**C101.05 STANDARDS AND TEST METHODS**

1. Unless otherwise specified in the Contract, and where applicable, materials and workmanship shall be in accordance with the relevant Standard of the Standards Association of Australia.
2. A Standard applicable to the Works shall be the edition as nominated in the Specification unless otherwise specified.
3. Overseas Standards and other Standard documents named in the Specification shall be applicable in the same manner as Australian Standards to relevant materials and workmanship.
4. Copies of any Standards quoted or referred to in the Specification shall be kept on the site if so specified.

**Australian Standards**

**Overseas Standards**

**Copies to be kept on Site**

**Other Test Methods**



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- Where no suitable Australian Standard test methods are available, those of the Queensland Department of Main Roads shall be used.

**C101.06 TESTING AND SURVEY**

- All testing and survey as required by the Technical Specifications shall be arranged and carried out by the Contractor and all test results and survey records made available to the Superintendent and Council. The cost of all such testing and survey shall be borne by the Contractor.
- The minimum frequency of testing and survey shall be in accordance with either the Specification for QUALITY SYSTEM REQUIREMENTS or QUALITY CONTROL REQUIREMENTS as appropriate for Quality Assurance or Quality Control contracts respectively. The appropriate requirements for this Contract are cited on the Form of Tender.

**Contractor's Cost**

**Minimum Frequency**

**C101.07 WORKING AREAS**

- The Principal will not be responsible for the safe-keeping of any of the Contractor's plant, equipment, tools, materials or other property. The Contractor may provide, and pay for, any security fencing considered necessary around any office, workshop or storage area, subject to the Superintendent's approval.
- If existing fencing is cut or altered by the Contractor or if there is no existing site fencing, the Contractor shall provide and maintain temporary fencing to the satisfaction of the Superintendent during the Contract to prevent unauthorised entry into the property, and shall reinstate the fencing and remove temporary fencing on completion of the work.
- The Contractor shall erect appropriate regulatory, hazard, emergency information and fire signs, in accordance with AS 1319 Safety signs for the Occupational Environment, at prominent locations around the working areas and temporary site facilities. Signs shall include, but are not limited to: mandatory signs for personal protection such as eye, head and foot protection, and DANGER signs such as "DANGER, Construction Site. No Unauthorised Access". All words on word-message signs shall be approved by the Superintendent prior to sign manufacture or purchase.
- The Contractor shall ensure all aspects of Workplace Health and Safety are adhered to.

**Security**

**Temporary Fencing**

**Safety Signs**

**Workplace Health and Safety**

**C101.08 SMOOTH JUNCTIONS**

- Construction work carried out under this Contract adjacent to or adjoining existing works, shall make smooth junctions with the existing work.

**C101.09 SETTING OUT THE WORKS**

- The Superintendent will provide Permanent Marks as shown on the Drawings. The Superintendent will also establish bench marks related to the level datum.
- Before any of the given survey marks on the base lines or the various control lines are affected by the Works, the Contractor shall transfer such survey marks to side positions clear of operations and shall note, and inform the Superintendent in writing, of the extent of such movement.

**Provision of Marks**

**Transfer of Marks**



**C101.09 SETTING OUT THE WORKS Cont.**

- 3. The Contractor shall give the Superintendent not less than two (2) full working days' notice of the intention to perform any portion of the relocation of survey control, establishment of recovery pegs, or setting out or levelling, so that suitable arrangements can be made for checking of the work by the Superintendent. If no such notification is given and a control mark is disturbed or destroyed, then the cost of re-establishing the control shall be borne by the Contractor.
- 4. The Contractor shall provide and fix adequate recovery pegs in suitable locations adjacent to the elements of work to enable location and construction to be checked.
- 5. All pegs and profiles placed by the Contractor shall be removed on completion of work unless otherwise directed by the Superintendent.

**Notice for Relocation**  
**Contractor's Cost**

**Recovery Pegs**

**Removal**

**C101.10 SITE MEETINGS**

- 1. Regular site meetings will be held for the purpose of discussion of the progress and co-ordination of the Work under the Contract and any matters of doubt regarding the intent or interpretation of the Drawings or the Specification. The Contractor shall arrange for relevant sub-contractors or their responsible representatives to be present at these meetings. The meetings will be held at a time nominated by the Superintendent.
- 2. The Superintendent shall also give Council 48 hours notice of the date, time and location of the meetings. A Council representative may attend these meetings.
- 3. The Superintendent or Superintendent's Representative shall chair site meetings, keep minutes of the proceedings and shall provide copies of the minutes for the Contractor, all present at the meeting and others concerned with the matters discussed.

**Representation**

**Advice to Council**

**Responsibility for Minutes**

**C101.11 WORK-AS-EXECUTED DRAWINGS**

- 1. The Contractor shall supply the Superintendent with fully marked-up and certified Work-as-Executed Drawings in the manner required by the relevant local authority, for the whole of the Contract prior to issue of the Final Certificate. Prints or reproducibles of the Contract Drawings will be supplied by the Principal free of charge for this purpose. A Work-As-Executed Certification Report, refer to Annexure C101A, shall be completed by an appropriately qualified Engineer or Surveyor commissioned by the Contractor.
- 2. Work-as-Executed Drawings for Roadworks shall show all changes in the manner required by the relevant local authority and actual values of all levels shown on the Drawings. The Drawings shall be signed by a Surveyor and certified by the Contractor.

**Submission**

**Roadworks**



**C101.11 WORK-AS-EXECUTED DRAWINGS Cont.**

- 3. Work-as-Executed Drawings for Bridgeworks shall show all changes in the manner required by the relevant local authority, including variations to levels, dimensions, concrete, reinforcement, prestressing and other materials, all non-conformances accepted without rectification, suppliers and model numbers of bearings and proprietary joints and type of barrier railings installed where both steel and aluminium alternatives are detailed. The Drawings shall be certified by an appropriate qualified Engineer or Surveyor commissioned by the Contractor.

**Bridgeworks**

**C101.12 ITEMS TO BE SUPPLIED BY THE PRINCIPAL**

- 1. Items listed in the Schedule of Items to be supplied by the Principal (TBS Items) will be supplied, delivered and unloaded by the Principal free of cost to the Contractor at points to be nominated. The Contractor shall give the Superintendent notice of the time delivery of TBS Items are required in accordance with the Requirements of the Technical Specification or as specified below.
- 2. If any TBS Item is found to be damaged or defective the Contractor shall so inform the Superintendent within 2 days of taking delivery of such item. If the Contractor does not report damage or defect, it shall be deemed that the TBS Item was free from damage or defect when received. The Contractor shall then be responsible for any replacement or making good as may be directed by the Superintendent in the case of a Quality Control Contract or in accordance with the Disposition of Nonconformance requirements in the Specification for QUALITY SYSTEM REQUIREMENTS in the case of a Quality Assured Contract.
- 3. The Contractor shall be responsible for the storage, protection and insurance of all TBS Items received.

**Delivery**

**Contractor's Responsibility**

**C101.13 SCHEDULE RATES**

- 1. Requirements in respect of all matters specified in this General Specification shall be considered as incidental to the Works and no separate Rates shall be provided in the Schedule in respect thereof.

**No Separate Rates**

**ENVIRONMENTAL REQUIREMENTS**

**C101.14 PROTECTION OF THE ENVIRONMENT**

- 1. All work shall be carried out in such a manner as to avoid nuisance and/or damage to the environment. The Contractor shall comply with the requirements of the conditions of approval imposed by Pine Rivers Shire Council, the Environment Protection Agency under the Environmental Protection Act of 1994 and Amendments together with the Regulations and Policies on Noise, Water, Air and Waste. No variation in costs or extensions of time will be considered due to these requirements. All necessary permits shall be obtained prior to the commencement of works.
- 2. The Contractor shall plan and carry out the Works to avoid erosion, contamination and sedimentation of the site and its surroundings.

**Conformance to Acts**

**Erosion Control**



**C101.14 PROTECTION OF THE ENVIRONMENT Cont.**

3. Herbicides and other toxic chemicals shall not be used on the site without the prior written approval of the Superintendent.

***Herbicides and Toxic Chemicals***

4. No noise or smoke or other nuisance, which in the opinion of the Superintendent and/or Council's Authorised Officer is unnecessary or excessive shall be permitted by the Contractor in the performance of the Works under this Contract. Should work outside customary working hours be approved, the Contractor shall not use, during such period, any plant, machinery or equipment which in the opinion of the Superintendent is causing or is likely to cause a nuisance to the public. No noisy works and/or works likely to disturb nearby residents shall be undertaken during the hours precluding such activity as specified by Council in accordance with the requirements for development consent and building approval made under the Council's Planning Scheme Building Bylaws, Local Laws and Local Planning Policies.

***Noise, Smoke or Other Nuisances***

1. The Contractor shall ensure that fugitive dust from disturbed areas is minimised by a method approved by the Superintendent.

***Dust Control***

**C101.15 DRAINAGE OF WORKS**

1. The control and management of stormwater drainage through the site will be important during construction of the Works.

***Stormwater Control***

2. The Contractor shall provide for the effectual diversion of surface water from the Works and provide and ensure proper flushing for storm and subsoil water across and beyond the Works at all times. The flow of stormwater and drainage along existing gutters and water tables shall not be interrupted.

***Stormwater Diversion***

3. The Contractor shall provide efficient pumping equipment on site and shall keep trenches and excavations dewatered at all times during construction.

***Pumping***

4. All permanent retention basins, and temporary erosion and sedimentation control shall be completed prior to commencement of earthworks.

**C101.16 BLASTING**

1. Blasting will not be permitted without the specific approval of the Council. If such approval is given then blasting shall be carried out strictly in accordance with the Specification - EARTHWORKS.

**C101.17 LIMITS ON NOISE**

1. The Contractor shall only use plant that have effective residential class silencers fitted to all engine exhaust, have engine covers fitted, are maintained in good order, and in addition meet the following requirements:-

***Plant with Silencers***

(a) On purchase have met the NAASRA Specification for Noise levels of plant and equipment, or

(b) Have a Maximum Noise level ( $L_{MAX}$ ) less than 80 dB(A) when measured at a distance of 7 metres.



**C101.17 LIMITS ON NOISE Cont.**

2. Operational hours of plant, including the entry and/or departure of heavy vehicles, shall be restricted to 7am to 5pm Monday to Saturday and at no times on Sundays or Public Holidays. Work outside of the hours specified shall not be undertaken without the prior approval of the Superintendent and Council's Authorised Officer in accordance with the Act.

**Working Hours**

3. Noise emanating from the construction site when measured at any noise sensitive location (such as a residential premise), as determined by the Environment Protection Agency shall not exceed an assigned L10 sound pressure level threshold (noise level exceeded for 10% of the sample time). The intent of this requirement is to avoid excessive noise and long periods of elevated noise that is reasonably anticipated to annoy or adversely effect the adjacent community.

**Maximum Noise Levels**

4. The Contractor will be responsible for any damage and compensation payments as a result of non-observance of the above requirements. No claim by the Contractor arising out of these requirements will be considered by the Principal.

**Contractor's Responsibility**

**C101.18 LIMITS ON GROUND VIBRATION**

1. It is the intent of this Specification that ground vibration levels, transmitted from operating items of plant in the vicinity of residential premises shall not exceed levels that are close to the lower level of human perception inside the premise nor will cause structural damage to the building. Practices and vibration thresholds acceptable shall be determined in accordance with current Statutory Regulations. Where such regulation is not available, or jurisdiction is disputed, the criteria given in paragraphs 2 and 3 shall apply.

**Levels**

2. Vibration (RMS Z-Axis) generated by construction works shall not exceed

- Curve 4 - for the period of 1 month or less
- Curve 2 - for the period of more than 1 month

**Limits**

as defined in British Standard BS6472 "Evaluation of Human Exposure to Vibration in Buildings (1 HZ to 80 HZ)" when measured inside nearby residential premises.

3. Ground vibrations generated by construction works shall not exceed a peak particle velocity ( $V_R$  max) limit of 5 mm/sec when measured within one metre of any residential premise.

**Peak Particle Velocity**

4. The Contractor shall be responsible for any damage and compensation payments as a result of non-observance of the above requirements. No claim by the Contractor will be considered by the Principal.

**Contractor's Responsibility**

**SPECIAL REQUIREMENTS**

**C101.19 RESERVED**

**C101.20 RESERVED**

**C101.21 RESERVED**

**PINE RIVERS SHIRE COUNCIL  
WORK-AS-EXECUTED CERTIFICATION REPORT**

**Project Title:** \_\_\_\_\_

**DA/BA No:** \_\_\_\_\_

**Design Consultant's Drawing No:** \_\_\_\_\_

**Name of Consultant:** \_\_\_\_\_

**Council's Drawing No:** \_\_\_\_\_

**Name and Address of Developer:** \_\_\_\_\_  
\_\_\_\_\_

I certify that the Work-as-Executed drawings represent the construction of Works for which Quality Records, providing a valid record of construction, is held by me and is available for inspection by Council.

I certify that the Works have been constructed in accordance with the Council approved drawings and standards with the exception of departures indicated on the Work-as-Executed drawings.

Each approved drawing has been reviewed and signed by me certifying that they contain all amendments reported by the Superintendent and visible in the finished works and accurately reflect the Works-as-Executed.

Contact Phone: \_\_\_\_\_

Contact Postal Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Consulting Engineer/Surveyor \_\_\_\_\_ Date

\_\_\_\_\_ Qualifications \_\_\_\_\_