

DEVELOPMENT  
CONSTRUCTION  
SPECIFICATION

C101

**GENERAL**



## 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 1</i>	<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	Major Revision as per Aus-Spec Bulletin Board Release 10	All	AMO	SPM	10/4/03
2	Revisions as per Aus-Spec Bulletin Board releases 11 & 12	All	AMO	SPM	10/4/03
3	Clauses Deleted Location And Description Of Project Extent Of Work Subsurface Conditions Items To Be Supplied By The Principal Schedule Rates	C101.01 C101.02 C101.03 C101.12 C101.13	O O O O O	SPM	24/2/04
4	Annexure change DA/BA to DA	C101-A	O	SPM	24/2/04

This page is intentionally left blank

## SPECIFICATION C101 : DEVELOPMENT CONSTRUCTION - GENERAL

### PROJECT SPECIFIC INFORMATION

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

deleted

#### C101.02 EXTENT OF WORK

deleted

#### C101.03 SUBSURFACE CONDITIONS

deleted

### 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. **Australian Standards**

2. A standard applicable to the Works shall be the edition last published 14 days prior to the closing date for tenders 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. **Overseas Standards**

4. Copies of any standards quoted or referred to in the Specification shall be kept on the site if so specified. **Copies to be kept on Site**

5. Where no suitable AS test methods are available, those of the relevant State Road Authority shall be used. These are designated T123 etc. **Other Test Methods**

#### C101.06 TESTING AND SURVEY

1. All testing and survey as required by the Technical Specifications shall be arranged and carried out by the Principle 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 Principle. **Contractor's Cost**

2. 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 **Minimum Frequency**

## GENERAL

---

Tender.

### C101.07 WORKING AREAS

1. 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. **Security**
2. 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. **Temporary Fencing**
3. The Contractor shall erect appropriate regulatory, hazard, emergency information and fire signs, in accordance with AS1319 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 protective equipment 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. **Safety Signs**

### C101.08 SMOOTH JUNCTIONS

1. 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

1. The Superintendent will provide Permanent Marks as shown on the Drawings. The Superintendent will also establish bench marks related to the level datum. **Provision of Marks**
2. 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. **Transfer of Marks**
3. The Contractor shall give the Superintendent not less than two 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. **Notice for Relocation**  
**Contractor's Cost**
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. **Recovery Pegs**
5. All pegs and profiles placed by the Contractor shall be removed on completion of work unless otherwise directed by the Superintendent. **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. **Representation**

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.

***Advice to Council***

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.

***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 for the whole of the Contract prior to issue of the Final Certificate. Prints or reproduces 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.

***Submission***

2. Work-as-Executed Drawings for Roadworks shall show in red ink all changes to the Contract Drawings and actual values of all levels shown on the Drawings. The Drawings shall be signed by a Surveyor and certified by the Superintendent. A copy of the drawings on computer disk as a DXF file and the amended paper copy shall be lodged with Council prior to the issue of the subdivision certificate.

***Roadworks***

3. Work-as-Executed Drawings for Bridgeworks shall show in red ink all changes to the Contract Drawings, 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 the Superintendent

***Bridgeworks***

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

deleted

#### **C101.13 SCHEDULE RATES**

deleted

### **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 Council, the Environment Protection Authority, the Protection of the Environment Operations Act and the Rural Fires Act. No variation in costs or extensions of time will be considered due to these requirements.

***Conformance to Acts***

2. The Contractor shall plan and carry out the Works to avoid erosion, contamination and sedimentation of the site and its surroundings.

***Erosion Control***

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

***Noise, Smoke***

## GENERAL

---

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 Local Government Act and the Protection of the Environment Operations Act.

***or Other  
Nuisances***

5. 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 ( $L_{AMAX}$ ) less than 80 dB(A) when measured at a distance of 7 metres.

2. Notwithstanding the requirements contained in the General Conditions of Contract, operational hours of plant, including the entry and/or departure of heavy vehicles, shall be restricted to 7am to 6pm Monday to Friday, 7am to 1pm on 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.

***Working Hours***

3. Notwithstanding noise emission limits on plant, noise emanating from the construction site when measured at any noise sensitive location (such as a residential premise), as determined by the Environment Protection Authority's publication Environmental Noise Control Manual, 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

***Maximum  
Noise Levels***

reasonably anticipated to annoy or adversely effect the adjacent community.

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

**Limits**

Curve 4 - for the period of 1 month or less

Curve 2 - for the period of more than 1 month

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**

----- **COUNCIL**  
**WORK-AS-EXECUTED CERTIFICATION REPORT**

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

**DA No:** \_\_\_\_\_

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

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

**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: \_\_\_\_\_

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

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

\_\_\_\_\_  
Qualifications

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

This page is intentionally left blank



## SPECIFICATION C101 - GENERAL

CLAUSE	CONTENTS	PAGE
<b>PROJECT SPECIFIC INFORMATION .....</b>		<b>1</b>
C101.01	LOCATION AND DESCRIPTION OF PROJECT .....	1
C101.02	EXTENT OF WORK .....	1
C101.03	SUBSURFACE CONDITIONS .....	1
<b>GENERAL REQUIREMENTS .....</b>		<b>1</b>
C101.04	DRAWINGS .....	1
C101.05	STANDARDS AND TEST METHODS .....	1
C101.06	TESTING AND SURVEY.....	1
C101.07	WORKING AREAS.....	2
C101.08	SMOOTH JUNCTIONS .....	2
C101.09	SETTING OUT THE WORKS.....	2
C101.10	SITE MEETINGS .....	2
C101.11	WORK-AS-EXECUTED DRAWINGS.....	3
C101.12	ITEMS TO BE SUPPLIED BY THE PRINCIPAL.....	3
C101.13	SCHEDULE RATES .....	3
<b>ENVIRONMENTAL REQUIREMENTS.....</b>		<b>3</b>
C101.14	PROTECTION OF THE ENVIRONMENT .....	3
C101.15	DRAINAGE OF WORKS .....	4
C101.16	BLASTING .....	4
C101.17	LIMITS ON NOISE .....	4
C101.18	LIMITS ON GROUND VIBRATION .....	5
<b>SPECIAL REQUIREMENTS .....</b>		<b>5</b>
C101.19	RESERVED .....	5
C101.20	RESERVED .....	5
C101.21	RESERVED .....	5

***ANNEXURES***

***C101-A*      **WORK-AS-EXECUTED CERTIFICATION REPORT****