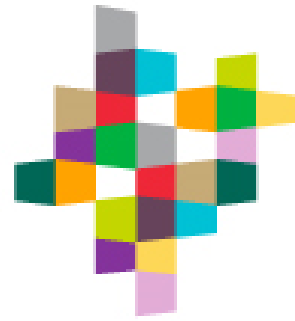


QPRC



**QUEANBEYAN PALERANG
REGIONAL COUNCIL**

**DEVELOPMENT CONSTRUCTION
SPECIFICATION**

C212

CLEARING AND GRUBBING

VERSION 1 – JANUARY 2019

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
VERSION 1	Inspection requirements added	C212.01.5	A	KD	12/04/10
	Hold Point added	C212.02.2	A	KD	12/04/10
	Hold Point added	C212.03.2	A	KD	12/04/10
	Hold Point added	C212.03.5	A	KD	12/04/10
	Hold Point added	C212.03.7	A	KD	12/04/10
	Hold Point added	C212.06.2	A	KD	12/04/10
	Annexure added	C212-A	A	KD	12/04/10

SPECIFICATION C212 - CLEARING AND GRUBBING – VERSION 1

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SPECIFICATION C212 CLEARING AND GRUBBING – VERSION 1

C212.01 SCOPE

1. The work to be executed under this Specification consists of the clearing of all vegetation, both living and dead, all minor man-made structures (such as fences and livestock yards), all rubbish and other materials which, in the opinion of the Superintendent, are unsuitable for use in the Works, the chipping of the crowns of trees and the branches of shrubs, and the grubbing of trees and stumps from the area defined in Clause C212.02. The work also includes the disposal, in accordance with Clause C212.05 and C212.06, of all materials that have been cleared and grubbed. All natural landscape features, including natural rock outcrops, natural vegetation, soil and watercourses are to remain undisturbed except where affected by the Works as approved by the Council.

Extent of Work

2. In advance of or in conjunction with clearing and grubbing operations, effective erosion and sedimentation control measures shall be implemented in accordance with the Specification for CONTROL OF EROSION AND SEDIMENTATION – VERSION 1.

Erosion Control

3. The clearing and grubbing required for boundary fencing is included in the Pay Item for Boundary Fencing and does not form part of the work under this Specification.

Boundary Fence Line

4. Explosives shall not be permitted to be used in clearing, grubbing or other demolition activities without the prior written approval of the Council.

Blasting

5. The Contractor shall give notice so that inspection may be made of all **HOLD POINTS** and **WITNESS POINTS** documented in this specification and tabulated in Annexure C212-A. Release of **HOLD POINTS** and **WITNESS POINTS** shall be made by the Superintendent, with the concurrence of the Principal Certifying Authority to be obtained, where stipulated in Annexure C212-A.

Inspections

C212.02 LIMITS OF CLEARING

1. Unless otherwise specified or directed, the area to be cleared is that required by site regrading works, including the area occupied by the completed road formation and associated drainage works and erosion and sedimentation measures, plus a clearance of 2m beyond tops of cuts and toes of embankments. The Contractor shall ensure that only the absolute minimum area for construction is cleared.

Limits of Clearing

2. The Contractor shall submit a survey plan showing the proposed area to be cleared for approval. This is a **HOLD POINT**.

Survey (HP)

3. Before clearing commences, the limits of clearing shall be marked by pegs placed by the Contractor at 25m intervals around the area to be cleared.

Indicator Pegs

C212.03 CLEARING OPERATIONS

1. The area within the limits of clearing shall be cleared of all vegetation, both living and dead, all minor man-made structures (such as fences and livestock yards), all rubbish and other materials which, in the opinion of the Superintendent, are unsuitable for use in the Works with the exception of certain trees marked for preservation. The Contractor shall plan clearing operations such that wherever possible, clearing is carried out progressively and only the minimum area of land is left disturbed at any time.

Extent

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| <p>2. The Contractor shall give the Superintendent written notice of seven days of the intention to clear any area of the work. The Superintendent shall mark or indicate to the Contractor the trees that shall be preserved. The Contractor shall arrange for an inspection by Council's Tree Preservation Officer and shall obtain Council's approval to proceed with clearing and grubbing. This is a HOLD POINT. Trees that shall be preserved shall be protected during site works by the erection of solid barricades, as shown on the Drawings and, generally at a distance of 4m from the trunk of the tree, unless otherwise authorised by the Superintendent.</p> | <p>Trees to be Preserved (HP)</p> |
| <p>3. The Contractor shall take all measures to prevent damage to existing underground and overhead utility services.</p> | <p>Utility Services</p> |
| <p>4. The erection of structures, excavation and filling, changes to soil profiles, stockpiling of spoil, storage of other materials and driving or parking of any vehicle or machinery within 4m of the trunks of trees to be retained shall not be permitted unless part of the Works as approved by the Council.</p> | <p>Disturbance Near Trees</p> |
| <p>5. Damage to trees shall also include damage to bark and root systems. No tree roots are to be cut without the prior approval of the Superintendent and Council's Tree Preservation Officer. This is a HOLD POINT.</p> | <p>Disturbance to Tree Roots (HP)</p> |
| <p>6. The Contractor shall plan all operations to ensure that there is no damage to any trees outside the limits of clearing specified or directed by the Superintendent. No growing trees shall be destroyed or damaged by the Contractor other than those specified and those indicated by the Superintendent.</p> | <p>Trees outside Limits of Work</p> |
| <p>7. Any tree remaining within the road reserve but outside the limits of clearing which is, in the opinion of the Superintendent, unsound and likely to fall upon the roadway shall be cleared and disposed of in accordance with Clause C212.05, subject to prior approval of Council's Tree Preservation Officer. This is a HOLD POINT.</p> | <p>Unsound Trees in Road Reserve (HP)</p> |
| <p>8. If directed by the Superintendent, any branch, which overhangs the road formation, shall be cut back to within 0.5m of the tree trunk and disposed of in accordance with Clause C212.05.</p> | <p>Overhanging branches</p> |
| <p>9. Every precaution shall be taken to prevent timber from falling on private property and the Contractor shall dispose of any timber so fallen or produce the written consent of the owner to its remaining there. The cost of disposal of such fallen timber shall be borne by the Contractor. Prior to entering private property, the Contractor shall obtain consent from the Superintendent and the property owner.</p> | <p>Debris in Private Property</p> |
| <p>10. Damage of any kind, including damage to trees, fencing, occurring during clearing operations shall be made good by the Contractor. The cost of making good such damage shall be borne by the Contractor.</p> | <p>Damage to Property</p> |

C212.04 GRUBBING

- | | |
|---|------------------------------|
| <p>1. All trees and stumps, on or within the limits of clearing, unable to be felled and removed by the clearing methods used by the Contractor shall be removed by grubbing.</p> | <p>Extent</p> |
| <p>2. Grubbing operations shall be carried out to a depth of 0.5m below the natural surface or 1.5m below the finished surface level, whichever is the lower.</p> | <p>Depth</p> |
| <p>3. Holes remaining after trees and stumps have been grubbed shall be backfilled promptly with sound material to prevent the infiltration and ponding of water. The backfilling material shall be compacted to at least the relative density of the material existing in the adjacent ground.</p> | <p>Backfill Holes</p> |

C212.05 CHIPPING OF CLEARED VEGETATION

1. The Contractor shall produce a wood-chip mulch derived from crowns of trees and branches of shrubs cleared under this Specification. The wood-chip mulch produced shall be stockpiled for subsequent use in accordance with the Specification for LANDSCAPING - VERSION 1 or for use at other locations as appropriate.

**Wood-chip
Mulch**

2. The wood-chip mulch shall be produced from branches having a maximum diameter of 100 millimetres and the chipped material produced shall not have two orthogonal dimensions exceeding 75mm and 50mm.

Dimensions

C212.06 DISPOSAL OF MATERIALS

1. Unless otherwise specified elsewhere, all materials cleared and grubbed in accordance with this Specification shall become the property of the Contractor and shall be removed from the site and legally disposed of.

**Removal from
Site**

2. Unless otherwise approved by the Superintendent in writing, disposal of timber and other combustible materials by burning shall not be permitted. This is a **HOLD POINT**. Where the Contractor obtains the prior written approval of the Superintendent, the Contractor shall comply with all Statutory requirements applicable to burning off, and any such burning off shall be carried out in such a manner that no damage is done to any trees outside the limits of clearing. Smoke resulting from such burning off shall not cause a traffic hazard.

**Burning not
Permitted (HP)**

MEASUREMENT AND PAYMENT

C212.07 PAY ITEMS

1. Payment shall be made for all activities associated with completing the work detailed under this Specification entitled CLEARING AND GRUBBING – VERSION 1 in accordance with Pay Item C212(a).

Pay Item C212(a) CLEARING AND GRUBBING

1. The unit of measurement shall be the hectare of plan area bounded by the limits of clearing specified in Clause C212.02.

INSPECTIONS

Give notice so inspection may be made of the following:

Summary of HOLD POINTS

Clause title/subclause	Requirement	Notice for inspection	Release by
CLEARING AND GRUBBING			
Limits of Clearing			
C212.02.2 – Survey	Submit survey plan for approval	14 days before work is scheduled to commence	Superintendent – PCA concurrence required
Clearing Operations			
C212.03.2 – Trees to be Preserved	Obtain approval to commence clearing	7 working days	Superintendent – PCA concurrence required
C212.03.5 – Disturbance to Tree Roots	Obtain approval prior to root disturbance	7 working days	Superintendent – PCA concurrence required
C212.03.7 – Unsound Trees in Road Reserve	Obtain approval to remove	7 working days	Superintendent – PCA concurrence required
Disposal of Materials			
C212.06.2 – Burning not Permitted	Obtain approval to burn	14 working days before work is scheduled to commence	Superintendent – PCA concurrence required