



Clarence... a brighter place

Clarence City Council

SPECIFICATIONS FOR WORKS ON COUNCIL OWNED AND/OR MANAGED LAND

1.	SCOPE.....	3
2.	DEFINITIONS.....	3
3.	RELATED INFORMATION	4
	3.1. Acts	4
	3.2. Council Policies, Strategies And By-Laws.....	5
	3.3. Standards	5
	3.4. Specifications	6
4.	PROCESS.....	6
	4.1. Notification Of Proposed Works.....	6
	4.2. Approval Granted.....	6
	4.3. Undertaking Of Works	6
	4.4. Completion Of Works	7
5.	WORKS.....	7
	5.1. Council Notification	7
	5.1.1. Minor Works	7
	5.1.2. Major Works	7
	5.1.3. Emergency Works.....	7
	5.1.4. Attachment of Services to Bridges or Headwalls.....	7
	5.1.5. Traffic Management and Signage	8
	5.2. Identification Of Completed Work Within The Maintenance Period.....	8
	5.3. Safety	8
	5.3.1. Work Health and Safety.....	8
	5.3.2. Public liability insurance	8
	5.3.3. Public Safety.....	8
	5.3.4. Wet Cutting Stone or Concrete.....	8
	5.4. Street Trees.....	9
	5.5. Weeds	9
	5.6. Protection Of Stormwater Infrastructure, Waterways And Quality Improvement Devices.....	9
6.	EXCAVATION	10
	6.1. Before You Dig	10
	6.2. Trenching Times.....	10
	6.3. Protection Outside Working Hours.....	10
	6.4. Detector Loops.....	10
	6.5. Saw Cut	10
	6.6. Excavated Material	10
	6.7. Trenchless Methods.....	11
	6.8. Aboriginal Cultural Heritage Material.....	11
7.	BACKFILL.....	11

8.	PAVEMENT REINSTATEMENT.....	12
8.1.	Reinstatement Of Pathway / Footpath/ Multi-User Paths / Crossing.....	12
8.1.1.	Concrete.....	12
8.1.2.	Bituminous.....	12
8.1.3.	Pavers.....	12
8.1.4.	Crossing replacement	12
8.1.5.	Unsealed Paths	12
8.1.6.	Permanent pavement markers and signage.....	12
8.2.	Reinstatement Of Roadway Wearing Course	12
8.2.1.	Asphaltic Concrete Surfaced Roads	13
8.2.2.	Sprayed Bituminous Surfaced Roads	13
8.2.3.	Unsealed Roads	13
8.2.4.	Unsealed Shoulders	13
8.3.	Temporary Pavement Surface	13
8.4.	Asphalt And Sprayed Bituminous Surfacing	14
8.5.	Pavement Markings	14
8.6.	Street Furniture	14
8.7.	Concrete Kerbing	15
8.8.	Road Drainage Systems	15
8.9.	Medians/Traffic Islands/Traffic Calming Devices.....	15
8.10.	Native Vegetation	15
9.	CONFORMITY TESTING	15
9.1.	Material.....	16
9.2.	Compaction.....	16
9.3.	Completion Of Works	16
10.	MAINTENANCE PERIOD.....	16
10.1.	Recovery Of Costs – Non-Compliant Works	16
11.	LANDSCAPE WORKS ON NATURE STRIP OR ROAD RESERVATIONS.....	17
11.1.	Responsibility	17
11.2.	Existing Landscape Works.....	17
11.3.	Requirement Not To Interfere With Services	17
11.4.	Edge Of Landscape.....	17
11.5.	Elements Not Permitted	17
11.6.	Risk	18
11.7.	Containment Of Works	18
11.8.	Multi-User Path.....	18
11.9.	Council’s Discretion To Remove Works	18

1. SCOPE

The infrastructure reinstatement and/or rehabilitation requirements contained in this Specification apply to Works undertaken on land owned, maintained and/or managed by Council, including public open space, road reservations, footpaths, nature strips and anything associated with the road. This includes:

- excavation Works for any required service installations, relocation, maintenance, drainage, or for any other reason; and
- the placement or transit of mobile plant or equipment, including any device placed for the purpose of construction, on land adjacent to any roads, footpaths, within public open spaces, reserves, or properties that are owned and/or maintained by Council; and
- temporary occupancy of Council land for any purpose.

The technical and quality standards of roadwork and materials specified in this document are the minimum acceptable requirements, unless Council is required to accept a lesser standard under a legally binding directive.

2. DEFINITIONS

Applicant	means any natural person, body corporate and/or Service Authority intending to undertake and/or carrying out the Works.
Appropriately Qualified Person	means a person recognised by Council or other bodies as appropriately experienced and qualified to provide expert advice in a particular field.
Council	means the Clarence City Council.
Emergency Works	means Works requiring action to mitigate an immediate risk to a person's life, health, property, or the environment.
Excavation	means any form of excavation into the ground, the removal of soil or rock to form an open face, hole or cavity.
Maintenance Period	means the defect liability period set out in the relevant permit (6 months minimum).
Major Works	means any Works exceeding two days duration in total.
Minor Works	means any Works of two days or less duration in total.
Public Open Space	means space for public recreation or public gardens or for similar purposes.

Road Reservation	means a strip of land that abuts property boundaries and which forms part of the public road accessible to the public that is owned and/or managed by Council.
Service	means the infrastructure associated with the utility to provide a service such as electrical, telecommunications, water, sewer or stormwater.
Service Authority	means the Statutory Authority, Government Department, Corporate body, or any other organisation (private, State or Federal) under the relevant Act.
Traffic	means all pedestrian and vehicular traffic modes.
Utility	means the company that provides the service
Works	is as defined in the Local Highways Standard Requirements By-Law.

3. RELATED INFORMATION

3.1. ACTS

- *Urban Drainage Act 2013*
- *Environmental Management and Pollution Control Act 1994*
- *Environment Protection Biodiversity Conservation Act 1999*
- *Native Conservation Act 2002*
- *Local Government Act 1993 (Tas)*
- *Local Government (Building and Miscellaneous Provisions) Act 1993*
- *Local Government (Highways) Act 1982 (Tas)*
- *Road Rules 2019*
- *Disability Discrimination Act 1992 (Cth)*
- *Telecommunications Act 1997 (Cth)*
- *Telecommunications Code of Practice 2021*
- *Threatened Species Protection Act 1995*
- *Traffic Act 1925 (Tas)*
- *Natural Resources Management Act 2004*
- *Biosecurity Act 2019*
- *Work Health and Safety Act 2012 (Tas)*

3.2. COUNCIL POLICIES, STRATEGIES AND BY-LAWS

- Clarence City Council Local Highways Standard Requirements By-Law No. 2 of 2014
- Clarence City Council Trees on Council Owned or Managed Land 2021
- Clarence City Council Public Places By-law No. 1 of 2018
- Clarence Weed Strategy 2016-2030

3.3. STANDARDS

- AS 1742 - Manual of Uniform Traffic Control Devices (Part 3)
- AS 4970 - 2009 Protection of trees on development sites
- AS 1289 Methods of testing soils for engineering purposes
- AS 1379 - 2007 Specification and Supply of Concrete

This specification is to be applied in conjunction with the following:

- Clarence City Council
Local Highways Standard Requirements
<https://www.ccc.tas.gov.au/your-council/laws-governance/by-laws/>
- Local Government Association Tasmania
Tasmanian Municipal Standard Specifications
https://www.lgat.tas.gov.au/_data/assets/pdf_file/0029/700895/Tasmanian-Municipal-Standard-Specifications-March-2020.pdf
- Tasmanian Standard Drawings
https://www.lgat.tas.gov.au/_data/assets/pdf_file/0021/321348/LGAT-Standard-Drawings-Release-Version-Dec-2013.pdf
- Department of State Growth
Standard Drawings
https://www.transport.tas.gov.au/roads_and_traffic_management/contractor_and_industry_information/standard_drawings
- Environmental Protection Authority Tasmania
Guidelines
<https://epa.tas.gov.au/environment/water/stormwater/soil-and-water-management-on-building-sites>

3.4. SPECIFICATIONS

- Class 1 Quarried pavement material
- Class 2 Quarried pavement material [grading based]
- Class 3 Quarried pavement material [grading based]
- Sand – Stabilized
- ENVIROMENTAL PROTECTION AUTHORITY TASMANIA

4. PROCESS

4.1. NOTIFICATION OF PROPOSED WORKS

Council must be notified in writing prior to commencement of any Works. Notification must include a sketch plan, any Traffic Management Plans and Public Liability Insurance Certificate of Currency for proposed Works and the timeframe for completion (refer clause 4.1 - Council Notification).

Works must not commence until approval is received from Council unless for emergency Works.

The following Applications for Permit for Works on Council Land are the required method for notification to Council:

- Application for a permit to undertake Works in or affecting a highway
<https://www.ccc.tas.gov.au/wp-content/uploads/2021/04/Application-for-a-permit-to-undertake-Works-in-or-affecting-a-highway.pdf>
- Start of Works Notice for Engineering Works
<https://www.ccc.tas.gov.au/wp-content/uploads/2021/11/Start-of-Works-notice-for-engineering-Works.pdf>
- Application for Structures and Obstructions Permit
<https://www.ccc.tas.gov.au/wp-content/uploads/2020/02/Application-for-Structures-and-Obstructions-Permit.pdf>
- Infrastructure Condition Report

4.2. APPROVAL GRANTED

Council will notify the Applicant of approval to undertake the Works and of any required alterations, specifications, timeframes or concerns (e.g. native vegetation impacts, future Works considerations, and planning requirements).

4.3. UNDERTAKING OF WORKS

Prior to commencement of Works, arrangements must be agreed as to the timing of required Council inspections and to confirm location, compliance with specifications, and reinstatement requirements.

4.4. COMPLETION OF WORKS

Upon completion of the Works, the Applicant must notify Council as soon as possible to enable final inspection for compliance with these Specifications.

5. WORKS

5.1. COUNCIL NOTIFICATION

The Applicant must notify Council of all excavation within public open spaces and/or road reservation, in accordance with requirements below.

These requirements also apply to an Applicant where enabling legislation provides for, or where Council approves otherwise, the quality, supply and placing of the surfacing by the Applicant (in accordance with clause 7.3 - Asphalt and Sprayed Bituminous Surfacing).

5.1.1. MINOR WORKS

The Applicant must advise Council at least 14 days before commencement of Works.

Where Council is to undertake inspections, written notice must be provided to Council at least 48 hours prior to commencement of any Works.

5.1.2. MAJOR WORKS

Work must be undertaken in accordance with drawings, specifications, work methods and plans submitted at least 4 weeks prior to the intended Works. Planned Works must be approved by Council before commencement.

The Applicant must advise Council at least 14 days before commencement of Works in order that regular inspections and arrangements for final reinstatement can be made.

5.1.3. EMERGENCY WORKS

In Emergency circumstances, where damage to infrastructure or excavation Works is necessary the Applicant must provide notification to Council, as soon as practicable after the emergency is identified, in order that regular inspections and arrangements for final reinstatement and maintenance period commencement can be made.

5.1.4. ATTACHMENT OF SERVICES TO BRIDGES OR HEADWALLS

Drawings (including fixture details) must be submitted to Council, at least 6 weeks prior to commencement of Works.

Drawings must be approved by Council before commencement of any Works.

5.1.5. TRAFFIC MANAGEMENT AND SIGNAGE

Before commencement of any Works, a traffic management plan must be submitted by an accredited person and approved by Council. The traffic management plan must incorporate all pedestrian traffic movements and provide a suitable slip-resistant, firm plane surface for all vulnerable users.

All signage must be erected, monitored, and removed by a responsible person accredited in traffic management.

5.2. IDENTIFICATION OF COMPLETED WORK WITHIN THE MAINTENANCE PERIOD

After completion of Works, and at any time upon request within the maintenance period, the Applicant must supply to Council, in writing, details of reinstatement Works (including sketches, CAD files for any relocation Works, size, material, location and date of Works carried out).

5.3. SAFETY

The Applicant is responsible for the safety of workers, vehicle, and pedestrian traffic for the duration of the Works and must comply with requirements of the *Work Health and Safety Act 2012*, and meet requirements of relevant standards, including AS 1742 - Manual of Uniform Traffic Control Devices (Part 3).

5.3.1. WORK HEALTH AND SAFETY

The Applicant must provide Council a copy of their Work Health and Safety Policy and Safe Work Method Statement for any Works.

5.3.2. PUBLIC LIABILITY INSURANCE

The Applicant must provide evidence of their public liability insurance cover to the value specified within the 'Application to Undertake Works in or affecting a highway permit'.

5.3.3. PUBLIC SAFETY

All footpaths, multi-user paths, track/trails, roads and public open spaces must be clear of all obstructions and hazards in accordance with Council's Public Places By-Law. These items include but are not limited to, skip bins, construction material, construction debris, fencing and vehicles.

5.3.4. WET CUTTING STONE OR CONCRETE

All concrete products, natural or manufactured stone, earthen ware or porcelain will be wet cut. No dry cutting of any materials will be allowed in the road reservations.

At all times the stormwater system must be protected from ingress of these materials or turbid water produced by these operations.

5.4. STREET TREES

All Works must be undertaken in accordance with Council's Tree Policy (Trees on Council Owned or Managed Land) 2021 and AS 4970 - Protection of Trees on Development Sites (AS4970).

No tree may be pruned, or branches or roots removed without the express written permission of Council, in accordance with Council's Tree Policy.

When undertaking Works in the vicinity of any tree(s) on Council owned and/or managed land, a tree protection program must be implemented during all stages of development and construction in accordance with AS 4970. Protective measures must ensure the avoidance of root, trunk or crown damage, and minimisation of soil compaction.

Damage, pruning or removal of a tree on Council land by an unauthorised person is an offence under Council's Public Places By-Law.

<https://www.ccc.tas.gov.au/wp-content/uploads/2020/08/Application-For-Felling-Or-Lopping-Of-Trees-On-Council-Owned-Or-Managed-Land.pdf>

5.5. WEEDS

Where sites are to be excavated, all weeds must be removed by hand, where practicable, prior to any soil disturbance or work commencing and disposed of appropriately or controlled with the appropriate use of herbicide.

Weeds declared under the *Biosecurity Act 2019* require implementation of hygiene protocols to minimise risk of spread. Activities must be planned to avoid weed infested areas, where practicable. Machinery and equipment must be cleaned to remove soil, thereby reducing the potential for weed spread.

5.6. PROTECTION OF STORMWATER INFRASTRUCTURE, WATERWAYS AND QUALITY IMPROVEMENT DEVICES

Soil and sediment control plans must be designed, approved and installed in accordance with the Environmental Protection Authority (EPA) Tasmania Guidelines <https://epa.tas.gov.au/environment/water/stormwater/soil-and-water-management-on-building-sites>

Works must not commence until the soil and sediment control plan is implemented to protect against erosion of soil or sediment generated by the Works.

The ongoing efficacy and maintenance of these protective measures is the responsibility of the Applicant and will be subject to inspection or request for evidence of implementation by Council officers as required.

6. EXCAVATION

6.1. BEFORE YOU DIG

Prior to any Works a BYD enquiry must be completed to ensure you have access to information that will help you avoid damage to underground networks. Once all plans have been received from the affected asset owners, study the plans and information thoroughly to ensure there is an understanding of what is required.

<https://www.byda.com.au/before-you-dig/>

6.2. TRENCHING TIMES

Trenching which may restrict traffic movement and/or volume on peak flow lanes must not be carried out between 7am - 9am or 4pm - 6pm weekdays, unless required due to emergency Works, or otherwise approved by Council. Works must be organised so as to minimise disruption to traffic, pedestrians, and access to properties.

6.3. PROTECTION OUTSIDE WORKING HOURS

Trenches must be covered with a steel plate, or other approved cover, at all times when the site is unattended.

A trench may be uncovered during hours of Worksite operation but must be attended at all times by an appropriately qualified person.

6.4. DETECTOR LOOPS

All the necessary care and precaution must be taken to prevent damage to detector loops where excavation is to be undertaken in the vicinity of traffic signals. Where damage occurs, the Applicant must notify the relevant authority to cover the cost of repair or replacement of the damaged infrastructure.

6.5. SAW CUT

Trenches must be saw cut to the full depth of existing bitumen, asphalt, and concrete surfaces.

Where cement stabilised pavement exists, the pavement must be saw cut to the full depth (unless restricted by cutting equipment) to minimise damage to the surrounding pavement.

A saw cut is not required for roads surfaced with a light bituminous surface treatment.

6.6. EXCAVATED MATERIAL

Unless otherwise approved by Council, excavated material must not be reused in the reinstatement of trenches and must be removed from site and disposed of appropriately.

6.7. TRENCHLESS METHODS

Where alternatives to open trenching, such as thrust boring and tunnelling are proposed, the Applicant must give prior notice and supply designs and specifications prepared by an appropriately qualified person to Council for approval. Where required Council may request CCTV evidence prior to commencement and upon completion of Works.

6.8. ABORIGINAL CULTURAL HERITAGE MATERIAL

Should the proposed Works be located within a known area of Aboriginal cultural heritage sensitivity the Applicant will reference and apply the Aboriginal Heritage Tasmania 'Unanticipated Discovery Plan' procedure ([UDP.pdf](#) (aboriginalheritage.tas.gov.au)) as required under the *Aboriginal Heritage Act 1975* and the *Coroners Act 1995*.

7. BACKFILL

Prior to backfill operations, all loose rubbish and foreign material must be removed from the excavation site.

All spaces excavated and not occupied by permanent work must be backfilled.

Excavations must be backfilled with stabilised sand or crushed aggregate.

Cement stabilised sand shall consist of clean medium to fine grained sand mixed with 3% cement by mass.

Crushed aggregate in line with the Tasmanian Municipal Standard Specifications (Part 6) is to be as follows:

- a) Base course material must be crushed aggregate with grading conforming with Table 6.4.1 with a Plasticity Index not greater than 6, a Liquid Limit not greater than 25 and a Los Angeles Abrasion Test value not greater than 35.
- b) Sub-base materials must be crushed aggregate with grading conforming to Table 6.4.1 with a Plasticity Index not greater than 12, a Liquid Limit not greater than 30 and a Los Angeles Abrasion Test value not greater than 35.

Backfilling must be uniformly compacted in horizontal layers, not exceeding 200mm thickness to the dry density determined using Methods of Testing Soils for Engineering Purposes (AS 1289) test method 5.2.1 (modified compaction) for:

- a) not less than 90% up to a level 800mm below finished level; and/or
- b) not less than 95% at all levels above 800mm below finished level.

For pavement reinstatement, other than unsealed shoulders, the compacted backfill must be brought to a level 525mm and 460mm below the finished road level for asphalt and sprayed bituminous roads respectively.

For unsealed shoulders the compacted backfill must be brought to a level 300mm below the finished level.

8. PAVEMENT REINSTATEMENT

All Works must be completed in a smooth and continuous manner when interfacing with existing service infrastructure to minimise trip hazards and nuisance to road users.

8.1. REINSTATEMENT OF PATHWAY / FOOTPATH/ MULTI-USER PATHS / CROSSING

8.1.1. CONCRETE

The full length and width of the concrete panels which are affected, must be replaced in a smooth and continuous manner. The colour and style must be similar to original or as otherwise required by Council and in accordance with any Council approved Streetscape Plan. All new concrete must be constructed in accordance with the Tasmanian Standard Drawings (TSD)

8.1.2. BITUMINOUS

The bituminous reinstatement must extend a minimum 150mm either side of the trench or to a greater width as required by Council. All new joints are to be sealed.

8.1.3. PAVERS

Reinstatement Works that are identified as hazardous (greater than 10mm) will not be permitted. Pavers must be installed in a smooth and continuous manner.

8.1.4. CROSSING REPLACEMENT

Crossings must be replaced for the full width and must comply with the current Local Government Association Tasmanian (LGAT) Standard Drawings, as required by Council.

8.1.5. UNSEALED PATHS

All disturbed or damaged gravel paths are to be reconstructed to the same standard as previously existed or to the standard of existing paths in the local vicinity.

8.1.6. PERMANENT PAVEMENT MARKERS AND SIGNAGE

All permanent markers and signage are to be reinstated as required to meet the requirements of AS1742: Manual of Uniform Traffic Control Devices.

8.2. REINSTATEMENT OF ROADWAY WEARING COURSE

All Works must be completed in a smooth and continuous manner when interfacing with existing service infrastructure to minimise nuisance to road users.

Where Works are conducted within the roadway wearing course, the full lane width must be reconstructed where the Works coincides with a vehicle wheel track.

8.2.1. ASPHALTIC CONCRETE SURFACED ROADS

After completion of the backfill, 20mm crushed rock to Standard Specification PM1/20QG must be used to reinstate the excavation to a level not less than 50mm and no more than 75mm below the existing surface adjoining the excavation.

The crushed rock must comply with Standard Specification PM1/20QG. The crushed rock must be uniformly compacted in horizontal layers, not exceeding 150mm thickness, to not less than 98% of the dry density determined using AS 1289, test method 5.2.1 (modified compaction).

8.2.2. SPRAYED BITUMINOUS SURFACED ROADS

After completion of the backfill, 20mm crushed rock to Standard Specification PM1/20QG must be used to reinstate the excavation to a level not less than 50mm and no more than 75mm below the existing surface adjoining the excavation.

The crushed rock must comply with Standard Specification PM1/20QG. The crushed rock must be uniformly compacted in horizontal layers not exceeding 150mm thickness to not less than 98% of the dry density determined using AS1289, test method 5.2.1 (modified compaction).

8.2.3. UNSEALED ROADS

After completion of the backfill, a compacted 300mm depth of 20mm rubble complying with Standard Specification PM3/20QG, or an equivalent material approved by Council, must be placed and compacted in two horizontal layers to reinstate the road pavement to the finished shoulder level and matching cross fall.

Compaction must be to 95% of the dry density determined using AS1289, test method 5.2.1 (modified compaction).

8.2.4. UNSEALED SHOULDERS

After completion of the backfill, a compacted 200mm depth of 20mm screened quarry waste complying with Standard Specification PM3/20QG, or an equivalent material approved by Council must be placed and compacted in two horizontal layers to reinstate the road shoulder to the finished shoulder level and matching crossfall.

Compaction must be to 95% of the dry density determined using AS 1289, test method 5.2.1 (modified compaction).

8.3. TEMPORARY PAVEMENT SURFACE

On completion of backfill and pavement reinstatement, the Applicant is responsible for maintaining the open surface of the reinstated excavation until final asphalt or other bituminous surfacing has commenced.

Any temporary pavement should be constructed to a quality equal to the existing pavement to avoid the settlement or depression of the final surface and where possible should be finished to match the texture, surface type and colour of the existing pavement.

The Applicant must provide and maintain a temporary pavement surface and ensure it is safe and accessible for all traffic pending final surfacing.

8.4. ASPHALT AND SPRAYED BITUMINOUS SURFACING

The Applicant must supply and place asphalt or other bituminous surfacing at cost to the Applicant for all excavation reinstatement Works.

Where standard asphalt or other bituminous surfacing exists, the following surface reinstatement requirements apply:

- a. finished acceptance criteria of Standard Specification for Asphalt (Bituminous Surfacing of Roads) A.7;
- b. comprise a primer seal or tack coat and asphaltic concrete AC10 surface course mix to the requirements of A.7 (unless otherwise directed by Council) placed in layers not less than 30mm or greater than 50mm compacted thickness, finished off evenly and flush with the adjoining pavement surface; and
- c. comprise primer seal and sprayed bituminous surface with matching size and texture to the existing adjacent road surfacing, placed not less than 48 hours after the primer seal with an emulsion or hot cut-back binder. Workmanship must comply with the requirements of the Standard Specification for Seal Coat Treatment A.5.

8.5. PAVEMENT MARKINGS

The Applicant must lodge an order with Council to cover the full cost of reinstatement to the relevant line-marking standard of any painted or thermo plastic pavement markings, raised pavement markers and safety bars, which are removed or damaged during trenching Works.

This order must be lodged as soon as practicable.

8.6. STREET FURNITURE

The Applicant must replace any road sign, guidepost, guard fence or other street furniture temporarily removed or damaged during trenching work, ensuring that all street furniture is made good (including sign mounting heights) and cleaned.

This work is to be completed prior to traffic use.

8.7. CONCRETE KERBING

The Applicant must reinstate in concrete any concrete kerb and gutter or median type kerb which is removed or damaged during trenching work, ensuring that the kerb profile conforms with existing.

Concrete used in the work must be in accordance with The Specification and Manufacture of Concrete (AS1379), and must be Grade N20 concrete.

8.8. ROAD DRAINAGE SYSTEMS

The Applicant must report any damage to the road drainage systems, including culverts, sumps, subsoil drainage, roadside drainage systems incurred during trenching (or trenchless) Works, to Council.

Applicant must bear all cost of repair.

All modifications to an existing waterway are to be designed and constructed in a manner to ensure the waterway is not obstructed in any way. A hydraulic analysis of the catchment is to be provided to demonstrate the adequacy of the modification to meet a 1% AEP flood event.

Engineering designs and drawings are to be prepared for approval of Council's Group Manager Engineering Services prior to the commencement of Works.

8.9. MEDIANS/TRAFFIC ISLANDS/TRAFFIC CALMING DEVICES

The Applicant must reinstate medians, traffic islands and any traffic calming devices to conform to the existing surface treatment.

8.10. NATIVE VEGETATION

The Applicant must undertake assessment of relevant information under the *Native Conservation Act 2002*, the Clarence City Council Trees on Council Owned or Managed Land 2021 and the Clarence Weed Strategy 2016-2030 (https://www.ccc.tas.gov.au/wp-content/uploads/2018/10/Clarence-City-Council-Weed-Strategy-2016-2030_Published.pdf) ensuring the organisation of Works in the manner that support sustained use of the land.

9. CONFORMITY TESTING

The Applicant must submit to Council copies of laboratory test results to confirm compliance with materials and compaction requirements as specified herein for any reinstatement Works carried out, within 14 days of testing being undertaken.

Testing must be undertaken by a laboratory registered by the National Association of Testing Authorities (NATA). The arrangement and cost of such testing must be borne by the Applicant. It is the responsibility of the Applicant to remove and replace any material used by the Applicant which does not comply with this Specification.

Testing may not be required for emergency work at the discretion of the Council's Chief Executive Officer (CEO) or the Head of Infrastructure and Natural Assets.

9.1. MATERIAL

All pavement material must comply with PM32.C2 as appropriate, and conformance documentation must be supplied to Council upon request.

9.2. COMPACTION

The following minimum frequencies of testing must apply:

a. Pavement

- 0-50m² - no testing required
- 50-200m² - minimum two tests
- over 200m² - two tests and an additional test for every 200m² over 200m²

b. Backfill

- Testing requirements will be as directed by Council.

9.3. COMPLETION OF WORKS

Upon completion of the Works, the Applicant must notify Council as soon as possible to enable final inspection for compliance with these Specifications.

10. MAINTENANCE PERIOD

For all work, including landscaping, the Applicant is responsible for the cost of making good any settlement or other deterioration in the reinstated excavation for a maintenance period of 6 months after reinstatement.

Where it is agreed by Council that the reinstatement of the asphalt, paved, concrete or other bituminous surface of the excavation is to be carried out by the Applicant, or where enabled by legislation, responsibility to maintain the completed surface in a safe and accessible condition for all traffic, remains with the Applicant until the end of the maintenance period.

Where approved by the Council's Chief Executive Officer or Head of Infrastructure and Natural Assets an order covering the full cost of the maintenance may be lodged with Council for Council to assume maintenance responsibility.

The Applicant must indemnify and keep indemnified Council against all claims which may arise due to excavations or settlement or excavations until the maintenance responsibility has transferred to Council.

10.1. RECOVERY OF COSTS – NON-COMPLIANT WORKS

Council may arrange for Works which do not comply with Council's approval and conditions to be removed, made good or modified and will seek to recover from the Applicant full costs of doing so until the end of the maintenance period.

Before carrying out any work necessitated by settlement of the excavation for all installations and for which an order has not been obtained, Council will give notice to the Applicant of intention so that the deficient work may be inspected before rectification.

Settlement will be classified as any change in finished level that is greater than 10mm measured under a 1.2m straightedge along or across the trench.

11. LANDSCAPE WORKS ON NATURE STRIP OR ROAD RESERVATIONS

The property owner or occupier of the premises must maintain all nature strips along the frontage of the property. The nature strip may contain soft landscaping as per the council guidelines however structures or other hard landscaping will not be permitted unless approved by Council's Chief Executive Officer (CEO) or Head of Infrastructure and Natural Assets.

11.1. RESPONSIBILITY

Landscape Works must be maintained by the owner or occupier of the premises along the frontage of the road on which the landscape Works are carried out.

11.2. EXISTING LANDSCAPE WORKS

Where proposed Works are likely to negatively impact existing vegetation, Council may require the Applicant to undertake an assessment of the existing vegetation and provide Council with an 'Infrastructure Condition Report' at least 7 days prior to commencement of any works - including details relating to weed management, vegetation, and rehabilitation.

11.3. REQUIREMENT NOT TO INTERFERE WITH SERVICES

Landscape Works must not interfere with:

- i. any stormwater system or waters; or
- ii. a utility, service or infrastructure (includes an inspection opening, service pit or water meter); or
- iii. access to a utility, a service or infrastructure.

11.4. EDGE OF LANDSCAPE

The edge of the landscape Works must be defined by an edge which is level with the finished surface level.

11.5. ELEMENTS NOT PERMITTED

Unless otherwise approved within Council's Streetscape Plans, landscape Works must not contain or include:

- i. sprinklers that cause interference to the safe movement of traffic or the safe use of a footpath; or

- ii. permanent structural footings or structures (for example concrete footings or foundation, letter box, retaining wall, fence); or
- iii. uncontained loose stones or pebbles; or
- iv. a plant which is poisonous or otherwise interferes with the safe movement of traffic or the safe use of a footpath (e.g., a plant with thorns or spikes);
- v. any declared and / or environmental weed species;
- vi. Any tree unless separately approved by Council Chief Executive Officer (CEO), or Head of Infrastructure and Natural Assets, or as required for replacement under council's adopted Trees on Council Owned or Managed Land Policy 2021.

11.6. RISK

Landscape Works must not:

- i. cause, or be likely to cause, damage to the road or a structure associated with the road; or
- ii. impair, or be likely to impair, visibility for vehicles or pedestrians along the road or footpath; or
- iii. cause, or be likely to cause, damage to a utility, service, or infrastructure.

11.7. CONTAINMENT OF WORKS

Landscape Works must be contained to the adjacent frontage of the property and should be limited to ensure a maximum footpath width clear of obstruction is retained.

11.8. MULTI-USER PATH

Landscape Works must not inhibit the function of a multi-user path.

11.9. COUNCIL'S DISCRETION TO REMOVE WORKS

Council may remove any or all garden beds if they are not constructed or maintained to Council's satisfaction, or if a reasonable objection is raised.

In these circumstances, Council will provide notice to those responsible for the landscaped area, that the Works are to be removed and replaced with natural turf. If removal of Works and replacement with natural turf, or other suitable treatments as per council guidelines, is not undertaken within 28 days, Council will issue a compliance notice. Should there be further non-compliance, a penalty notice may be issued.

Where Council is required to undertake Works within the nature strip or road reservation, the landscaping will be reinstated with turf unless otherwise directed by the Council's Chief Executive Officer or Head of Infrastructure and Natural Assets.