



SHIRE OF MURWEH

MURWEH SHIRE COUNCIL

Quotation for:

Morven Freight Hub

Access Roadway – Pavement

QUOTATIONS CLOSE AT 2:00PM FRIDAY 7th FEBRUARY 2020



B&A REFERENCE No.: 192169

QUOTATION No. MRH12. 19-20
January 2020

1 CONDITIONS OF QUOTATION

1. The Tenderer shall state: -
 - (a) in the case of an individual, full Christian or given names, surname and address;
 - (b) in the case of a business name, the names and addresses of all proprietors and the address of the Principal place of business;
 - (c) in the case of a company, the full name of the company and the address of the registered office of the company.

2. Every quotation shall be enclosed in a single sealed envelope addressed to :-

The Chief Executive Officer
Murweh Shire Council
PO Box 63
Charleville QLD 4470

and be endorsed on the front of the envelope: -

QUOTATION No. MRH12. 19-20

Quotation for Access Roadway – Morven Freight Hub – Pavement.

Documents required to be lodged must include:

- Quotation Form
 - Completed Schedule of Prices
 - Completed Works Programme & Methodology Schedule
3. Quotations shall be lodged in the tender box in the office of Murweh Shire Council, 95-101 Alfred Street, Charleville before 2:00pm Friday 7th February 2020.

Any quotation lodged after the above closing time shall not be considered unless there is evidence satisfactory to Council that such quotation: -

- (a) was delivered to a place nominated by Council for the closing of quotations, before the specified closing time; or
- (b) was despatched to a place nominated by Council in sufficient time before the specified closing time for quotations to reach that place under normal circumstances but was still in the course of delivery at the specified closing time.

Council at its discretion may reject a quotation delivered after the closing time for the receipt of quotations no matter what the reason being for the late delivery.

Franking machine stamps will not be accepted as proof of the date of posting of a tender received after the specified closing time for the receipt of quotations.

4. Quotations may only be sent or transmitted direct to the office of Council by facsimile or email with the prior approval of the Principal. No other forms of lodgement by electronic means will be accepted. No guarantee as to the confidentiality of information can be given for any quotations sent electronically to the Principal.

Quotations lodged by a Tenderer or Agent in facsimile form, in accordance with subclauses (2) and (3), will be considered by Council.

5. Every quotation lodged shall contain a statement by the Tenderer that the quotation price is fixed and no increase will be sought from or imposed on Murweh Shire Council, except as varied with the approval of Council.
6. Tenderers shall show in the quotation the time within which the quotation will be fulfilled.
7. Council may accept the quotation that in view of all the circumstances appears to be the most advantageous, or may decline to accept any quotation.
8. Canvassing of Councillors is prohibited and may lead to outright rejection of a quotation.

QUOTATION FORM

NAME OF TENDERER:

ADDRESS OF TENDERER:

ABN:

LICENCE No.:
(where applicable)

QUOTATION AMOUNT:
(GST inclusive)

DATE FOR COMPLETION:

SIGNATURE OF TENDERER:

DATE:

SIGNATURE OF WITNESS:

DATE:

Note:

- 1. The quotation shall be a fixed price lump sum valid for 3 months from date of closing.
- 2. The quotation prices set out herein are fixed and no increase will be sought from or imposed on Murweh Shire Council except as varied according to the specification attached.
- 3. The lowest or any quotation will not necessarily be accepted.



**MORVEN FREIGHT HUB
 ACCESS ROADWAY – PAVEMENT
 SCHEDULE OF PRICES**

ITEM	DESCRIPTION	UNIT	QTY	RATE \$	AMOUNT \$
1.00	Preliminaries				
1.01	Establishment / Mobilisation	Item	1		
2.00	Pavement Works – Road 1 Ch.0.0 to Ch.1142.3				
2.01	Preparation of subgrade surface including trimming and compaction. Approx. 9000m ²	Item	1		
2.02	Placement of Type 3.3 Sub-base course material CBR 45 including trimming and compaction (150mm layer). Approx. 1590m ³ compacted (incl. below concrete channel)	Item	1		
2.03	Placement of Type 3.1 Base course material CBR 80 including trimming and compaction (150mm layer). Approx. 1350m ³ compacted	Item	1		
3.00	Pavement Works – Road 3 Ch.0.0 to Ch.55.0				
3.01	Preparation of subgrade surface including trimming and compaction. Approx. 750m ²	Item	1		
3.02	Placement of Type 3.3 Sub base course material CBR 45 including trimming and compaction (150mm layer). Approx. 140m ³ compacted	Item	1		
3.03	Placement of Type 3.1 Base course material CBR 80 including trimming and compaction (150mm layer). Approx. 120m ³ compacted	Item	1		
4.00	Kerb and Channel				
4.01	Construction of a 900mm wide IPWEA standard cross-section concrete channel, approx. 300m length	Item	1		
5.00	Completion				
5.01	Cleanup	Item	1		

	SUB-TOTAL \$	
	GST (10%)	
	TOTAL \$	

NAME OF TENDERER:

SIGNATURE OF TENDERER:

DATE:

SIGNATURE OF WITNESS:

DATE:



2 QUOTATION INFORMATION

2.1 Information to be Supplied with Quotation

Complete all schedules attached to this quotation document (if any).

2.2 Fixed Price Quotation

The Quotation shall be a for a FIXED PRICE LUMP SUM. The Quotation shall NOT be subject to variation on account of rise and fall of wage rates or materials prices. No increase will be sought from or imposed on Murweh Shire Council except as varied according to this specification.

2.3 Multiple Quotations

Tenderers are permitted to quote on more than one of the separate Quotations forming part of the Works and may offer a discount should they be successful in more than one of those Quotations.

2.4 Assessment Criteria

The following assessment criteria and relevant weighting will be applied to analysis of tenders received prior to selection of the successful tenderer.

Notwithstanding such analysis, Council reserves the right to select the submission that in view of all the circumstances appears to be the most advantageous.

Criteria	Weighting
Price	50%
Use of local suppliers and sub-contractors	20%
Previous experience in similar projects in far western Queensland	10%
Contract commencement date / contract period	20%

2.5 Enquiries

Tenderers shall be deemed to have satisfied themselves of all aspects of the proposed works and the contents of this quotation document prior to submission of their quotation.

Enquiries during the quotation period shall be directed to either Council's Director of Corporate Services Ken Timms ph 46568355, who will be Principal's Representative for the works, or Bryan Payne of Brandon & Associates ph: 46223799, who will be Superintendent for the works or Francis Amsalem of Brandon & Associates ph: 46223799, who will be Superintendent's Representative for the works.

2.6 Visit Site

Tenderers are requested to visit the site and determine and verify the nature and extent of proposed works prior to submitting their quotation.

The site of works is located on Lots 101-104 on M23210, approximately 650m east of the Morven railway crossing on the Warrego Highway, and is shown on the cover sheet of the Project Drawings.

Access to the site during preparation of quotations shall be arranged via contact with Ken Timms of Murweh Shire Council ph 46568355.

2.7 Interpretation of Contractor Responsibility

All references in this Specification to requirements of the Contractor shall relate only to the extent of works to be undertaken by the Contractor for this part of the Works and not to the Works as a whole, unless explicitly stated in the Specification.

However, each Contractor shall be required to attend on each other Contractor as relevant and as necessary for satisfactory completion of the whole of the Works.

2.8 Discrepancies

Should a Tenderer find discrepancies in or omissions from the Specification, or be in doubt as to their meaning, they shall at once notify the Superintendent and obtain a ruling on the matter. The whole of the work shall be executed to the true intent of the Specification.

2.9 Permits and Approvals

The Contractor will be required to comply with relevant conditions included in the Approval for Operational Works, including submission of required certificates of workmanship. The contents of the Approval for Operational Works (Council Planning File# BA7370; State

Government File# 1808-6705 SDA) are available for perusal at the office of Murweh Shire Council. Relevant requirements are included in the Job Specification.

Additionally, if applicable, the Contractor will be required to obtain approval from Queensland Rail before undertaking any work in the rail corridor.

Written evidence of all other required permits and approvals shall be provided to Council before commencement on site.

Known service locations are shown in the Project Drawings, however no locating or potholing of any existing services have been carried out to date. The Contractor is responsible for arranging with the appropriate authorities to determine the location, depth and connectivity of all existing services which may affect the works and report any potential clashes to the Superintendent prior to commencement of any construction works.

The Contractor is responsible for the protection of all existing services from damage. Any works damaged as a result of construction are to be reinstated to requirements of the relevant authority at the Contractor's cost.

2.10 Work Health and Safety

The Contractor will be appointed the Principal Contractor in respect of the work that is the subject of this contract, in accordance with provisions of the Work Health and Safety Act and Regulation.

The initial completion and lodgement of Notification of Principal Contractor form shall be the responsibility of the Principal. The Contractor shall be responsible for all other requirements under the Act and regulation, including completion and lodgement of other forms, notices and work plans, use of appropriately trained and qualified staff and payment of other fees. Copies of all notices, permits and approvals shall be forwarded to the Superintendent's Representative if requested.

The Contractor shall prepare a Work Health and Safety Plan specific to this project covering the full extent of their intended construction operations including work procedures and/or process statements. The Plan shall be prepared in accordance with the Act and any guidelines available from the Department of Industrial Relations and be submitted to the Superintendent's Representative for review prior to commencement of the works. The cost of developing and updating the plan shall be borne by the Contractor.

The Contractor shall promptly notify the Superintendent's Representative of any occurrence of the following and furnish a written report detailing the action taken:

- accidents involving death or personal injury
- accidents involving loss of time
- incidents with accident such as equipment failure, slides, cave-ins and the like.

2.11 Portable Long Service Leave Levy

The initial completion and lodgement of the Notification and Payment Form and payment of the Levy shall be the responsibility of the Principal.

All other requirements shall be the responsibility of the Contractor.

2.12 Supervision

The Contractor shall ensure work is supervised at all times by an appropriately qualified and experienced person.

2.13 Licensed Persons

Only persons appropriately licensed shall supervise the particular trade aspect of work on the project.

2.14 Insurance

Contract work insurance should be effected by the Contractor.

2.15 Electrical Power & Water Supply

The Contractor shall be responsible for arranging supply of temporary electrical power and water for their own purposes as required for the works.

Liaise with Council for provision and use of water for construction purposes, which will be made available at no cost to the Contractor provided sufficient supply is available at the time.

Arrangements for permanent power and water supply to the site are the responsibility of Council.

2.16 Special Working Hours and Operations

Refer to the Job Specification section “Working Hours and Working Days”.

No constraints on working hours or operations additional to the above and those imposed by relevant legislation will be applied by Council provided strict adherence to legislation is maintained.

2.17 Time for Completion

Council has certain commitments in respect of the effective operation of the Morven Freight Hub. In particular, the work must be substantially completed by 17th of April 2020, with only minor finishing tasks being permissible outside that period.

An expedited construction programme, minimisation of disruption to operational effectiveness, timely completion of critical elements and timely completion of the project as a whole are therefore of significant importance to Council in assessment of the most suitable Contractor for this project.

Ensure the enclosed Works Programme and Methodology Schedule is completed in an accurate and informative manner and submitted with the Schedule of Prices.

All work shall be completed prior to the agreed date for completion. Failure to complete the works within the specified time (after allowance for approved extensions) shall incur Liquidated Damages of One Thousand Dollars (\$1000.00) per day or part thereof.

2.18 Payment

Progress payments will be made in accordance with the Schedule of Prices and on satisfactory completion of all approved works for which payment is requested.

Payment for items of work will not be made unless all associated works have been completed to the satisfaction of the Superintendent’s Representative.

The Contractor shall provide all applicable test results and documentation detailing compliance with the relevant standards and/or specification to the Superintendent’s Representative with each claim. Payment for items for which required documentation has not been provided will be made at the sole discretion of the Superintendent.

2.19 Defects Liability

A defects liability period of six (6) months shall be applicable to work performed under this quotation.

Retention money equivalent to five per cent (5%) of the final quotation amount, including any variations, shall be held by Council pending successful completion of this period.

3 JOB SPECIFICATION

3.1 SCOPE

Pavement works for the Access Roadway are intended to provide a suitable wearing surface for large freight vehicles to deliver cattle to the Morven Freight Hub site.

Works to be completed for construction of the Access Roadway pavement are envisaged to include, but may not be limited to, the following:

- Earthworks:
 - The subgrade of the prepared earthworks area is to be checked for level and profile and minor trimming undertaken to prepare the surface to receive the pavement materials.
 - Construction of earthworks shall be in accordance with the earthworks specification and other relevant specifications below.
- Surface drainage:
 - Provide catch banks on the high side of the paving site as/if necessary to divert surface runoff to approved discharge points until such a time as the finished levels and drainage channels of the Access Roadway pavement can be completed.
 - Shaping of the Access Roadway to facilitate the free drainage of stormwater and effluent from the roadway to approved discharge points.
- Paving:
 - Prepare and compact the finished surface of base course layers to provide a suitable surface for application of a bituminous spray seal.
 - Construction of paving shall be in accordance with the paving specification and other relevant specifications below.

3.2 EXTENT OF WORKS

Paving of the Access Roadway carriageway is divided into two long sections.

- Road 1, Long section Ch.0.00 – Ch.1142.30, 6.0m carriageway.
- Road 2, Long section Ch.0.00 – Ch.55.00, 6.0m carriageway.

Extent of works to be completed for construction of the Access Roadway pavement under this Quotation is envisaged to include, but may not be limited to, the following:

- Earthworks:
 - Check the subgrade of the prepared earthworks area for level and profile.

- Undertake minor trimming as necessary to prepare the subgrade to produce a reasonably even surface meeting the requirements below.
- Generally, horizontal and vertical alignments and cross-sections shall be constructed as detailed in the drawings.
- Subgrade of finished earthworks shall be free-draining across its full area and free from any holes and localised depressions.
- Surface drainage:
 - Measures shall be taken to preserve the natural flow of water to the extent practical until such a time that pavement works can be completed.
 - Natural surface fall of the site is generally towards the south-south-east.
 - Provide catch banks as necessary on the edges of the pavement site to divert surface runoff away from the works into approved drainage discharge points.
 - Locations of catch banks shall be subject to prior approval of the Superintendent.
 - Catch banks shall generally be to the following dimensions:
 - minimum height 150mm
 - minimum top width 500mm
 - maximum batter slope 1 on 4
- Paving:
 - Sub-base course layer:
 - Placement, trimming and compaction of a Type 3.3 CBR 45 gravel pavement layer 150mm compacted depth.
 - Base course layer:
 - Placement, trimming and compaction of a Type 3.1 CBR 80 gravel pavement layer 150mm compacted depth.
 - Maintenance of the base course layer to ensure the surface remains suitable for the application of a sprayed bituminous seal, until such time as bitumen seal works can commence.
 - Generally, horizontal and vertical alignments and cross-sections shall be constructed as detailed in the drawings.
 - Finished pavement shall be free-draining across its full area and free from any holes and localised depressions.
- Kerb and Channel:
 - Construction of a 900mm wide concrete channel in accordance with IPWEA Standard Drawing RS-080.

Note that some work items may be scheduled as “if ordered” and due to funding constraints, some work items may be deleted prior to commencement.

3.3 WORKS UNDER SEPARATE QUOTATIONS

Work to be performed under separate quotations include:

- Clearing and grubbing.
- Earthworks except as specified.
- Pavement construction for the area between Road 1 and the railway reserve.
- Pavement construction for the stockpile/laydown pad.
- Construction of the intersection with the Warrego Highway.

3.4 WORKS BY THE PRINCIPAL

Work to be performed by the Principal shall include:

- Project signage.

3.5 DRAWINGS

Project Drawings are WAG-0001 A001 Revision 2 – WAG-0001 A903 Revision 2.

3.6 REFERENCE DOCUMENTS AND STANDARDS

Standard construction specifications from the Capricorn Municipal Development Guidelines (CMDG) suite shall apply to this project as listed in Schedule A enclosed, unless varied herein. These specifications are available for download from:-

<http://www.cmdg.com.au/Guidelines/ConstructionSpecifications/ConstructionSpecifications.html>

Unless otherwise specified in the Contract, and where applicable, materials and workmanship shall be in accordance with the relevant standard of the Standards Australia.

3.7 SIGNAGE

3.7.1 PROJECT SIGNAGE

Murweh Shire Council will supply and fix appropriate project signage on site.

3.7.2 TRAFFIC AND PEDESTRIAN SIGNAGE

The Contractor will be responsible for supply, fixing and maintenance of all relevant and applicable construction traffic and pedestrian signage during the course of the construction work which they undertake.

Care and consideration are to be given to on site conditions to avoid any visual obstruction of the sign(s) along the intended course of approaching traffic and pedestrians. Signs should be orientated at approximately right angles to and facing the traffic they are intended to serve.

The exact location of all signs shall be confirmed on site prior to installation.

Traffic and pedestrian signage shall be in accordance with AS1742 Manual of Uniform Traffic Control Devices.

3.7.3 SAFETY SIGNAGE

The Contractor will be responsible for supply, fixing and maintenance of all relevant and applicable construction safety signage during the course of the construction work which they undertake.

Safety signage shall be in accordance with requirements of WorkSafe Queensland.

3.8 SITE MEETINGS

At approximately fortnightly intervals the Contractor or their representative shall attend a project meeting on site, which shall also be attended by Sub- Contractors as required by the Superintendent.

3.9 CONTACTS

The Contractor shall submit the names and telephone numbers of all responsible people who may be contacted after hours within seven (7) days of acceptance of tender.

3.10 SITE FACILITIES AND STORAGE

The Contractor shall provide and maintain all statutory and necessary amenities and sanitary facilities in accordance with the Workplace Health and Safety Act and Regulations for their workers and other associated persons lawfully upon the site and remove them on completion of the Works.

The Contractor shall be responsible for the connection, maintenance during the contract and removal upon completion of all temporary services including potable water, power and telecommunications.

3.11 WORKING HOURS AND WORKING DAYS

In general, no constraints on working hours or operations other than those imposed by relevant legislation will be applied by Council provided strict adherence to legislation is maintained.

Nominal working hours: 6.30am to 6.30pm unless approved otherwise. Maintain compliance with acoustic quality objectives for noise levels as per Schedule 1 of the Environmental Protection (Noise) Policy e.g. during defined daytime hours (7.00am to 6.00pm) limit exterior sound levels at residential receptor points to 50dB(A) with a peak limit of 65dB(A).

Nominal working days: Monday to Saturday inclusive. No work involving audible noise shall be undertaken on Sundays or proclaimed public holidays.

The Contractor shall give at least 2 days clear notice of any request to vary approved working hours or working days. Approval by the Superintendent or Murweh Shire Council to vary the working hours and working days may include conditions.

3.12 SURVEY SET OUT AND CONTROL

The Principal will establish the initial survey bench marks and allotment boundaries prior to commencement of the works. An electronic copy of the pre-development engineering survey upon which the design has been based will be provided upon request.

The Contractor shall be responsible for the setting out of all works in accordance with the drawings, maintenance of the bench marks including re-establishment of any disturbed marks, survey control during the course of construction, pre-development survey verification if considered necessary, post stripping survey and post development survey.

3.12.1 SETOUT NOTES

Level datum for the works is A.H.D. (Australian Height Datum)

Setout shall be made by digital engineering data and confirmed on site by a licensed surveyor prior to construction.

3.13 LEVELS AND QUANTITIES

Locations, levels and quantities are indicative only for tender purposes and are to be confirmed prior to construction in consultation with the Superintendent.

Liaise as required with the Superintendent in formation and trimming of building and construction platforms.

Finished surface levels are to be graded uniformly between levels indicated on the drawings.

The Contractor shall be held entirely responsible for the correct setting out of the works in the positions indicated on the Drawings and shall certify all levels and dimensions and provide suitable permanent marks for the determination of all lines and levels that may be referred to during the progress of the works.

Existing levels shown on the Drawings are approximate and for tender purposes only. The Superintendent and Principal will accept no responsibility whatsoever for any variation in the actual levels from those shown and no extra caused through variation will be allowed in any circumstances.

3.14 DELIVERY OF MATERIALS

Deliveries are to be during normal working hours. Ensure safety of workers, general public and property during loading and unloading operations. Wherever possible the Contractor shall avoid using any newly constructed sections for delivery of materials.

Direct access to the site from Warrego Highway is permitted in approved location(s). Site facilities and material stockpile sites shall not be located within the Warrego Highway road reserve.

3.15 TRUCKING

Convey soils, earth, sand, loose debris and the like to or from the site in a manner that will prevent dropping of materials on streets. Ensure that the wheels, tracks and body surfaces of all vehicles and plant leaving the site are free of mud and that dust or mud is not carried on to adjacent paved streets or other areas. The Contractor shall be responsible for clean-up of any material deposited onto public roads.

The Contractor may elect to provide an approved wheel shaker such as a cattle grid or a rock surface at the entry / exit point to the site where deemed necessary to reduce the amount of material on vehicle tyres.

The Contractor shall comply with any and all vehicle load restrictions and route restrictions imposed by the local government or Department of Transport and Main Roads. No additional payment will be made for compliance with this requirement.

3.16 DUST CONTROL

The Contractor shall comply with the Clean Air Act.

The Contractor shall undertake construction in such a way as to minimise the generation of dust and shall if necessary alter or discontinue construction operations when prevailing winds are likely to cause dust to be blown onto adjoining residential areas.

3.17 ENVIRONMENTAL MANAGEMENT

The Contractor shall prepare an Environmental Management Plan (EMP) covering the full extent of the works and submit for approval prior to commencement. In addition to statutory requirements, the EMP shall address all relevant items in this project specification. Cost of developing and updating the plan shall be borne by the Contractor.

The Contractor shall be responsible for obtaining any necessary licences, permits or approvals statutory or governing bodies for environmental activities and payment of any associated fees.

The Contractor shall protect from damage all trees and other plants which need not be removed or destroyed for construction operations, or which are shown on the Drawings or specified to be retained, or which are beyond the limits of the Works.

The Contractor shall minimise disturbance to existing fauna and shall notify the Superintendent of the presence of protected or endangered fauna and follow any instructions in regards to the protection of fauna.

Stockpiles of topsoil, sand, aggregate, spoil or other material capable of being moved by the action of running water shall be stored clear of drainage paths and prevented from entering the road and/or surface drainage system.

3.18 SITE DRAINAGE

Provide for effective preventive precautions to minimise ingress of any excess water into the site of works.

The Contractor shall divert any water interfering with progress of the Works, keep trenches free from water while the Works are in progress and prevent any injury to the Works by water.

Adequate drainage of all working areas shall be maintained throughout the period of construction to ensure surface water runs off without ponding, except where ponding forms part of a planned erosion and sedimentation control system. The Contractor shall have proper and approved pumping equipment for keeping the trenches and excavation constantly dewatered during the time the works are in progress

Ensure disposal of water from any source during the construction of the Works in a manner that will not cause injury to persons or property or to ground surfaces, or cause any interference with other works. Inform the appropriate Authorities and obtain all necessary permits and approvals before disposing of water from the site.

The Contractor shall be responsible for removal and replacement and/or drying out any work or material damaged by water to the satisfaction of the Superintendent and for the costs of any consequent delays to the operations.

3.19 SEDIMENT CONTROL

The Contractor shall prepare an Erosion and Sediment Control Plan (ESCP) covering the full extent of the works and submit for approval prior to commencement of work. The ESCP must demonstrate the type and location of all temporary erosion and sediment control measures that will be progressively installed for each stage of the construction as well as those that will be installed following completion of construction. The ESCP shall include details of the frequency of inspection, reinstatement and rectification. Cost of developing and updating the plan shall be borne by the Contractor.

3.19.1 TEMPORARY DRAINS

Runoff from areas exposed during the work shall be controlled by construction of temporary contour banks or drains and/or temporary diversion banks or drains. They may require progressive implementation and frequent alteration as the work progresses.

3.19.2 TEMPORARY SEDIMENT TRAPS

Temporary sediment-trapping devices shall be provided during construction to remove sediment from sediment-laden runoff flowing from areas of 0.5 hectares or more before the runoff enters natural watercourses or adjacent land.

3.20 EARTHWORKS

3.20.1 GENERAL

All earthworks are to be carried out in accordance with CMDG Construction Specification C242 and under Level Two geotechnical control in accordance with AS3798 Guidelines for Earthworks for Commercial and Residential Developments except if specified otherwise herein.

3.20.2 EARTHWORKS TOLERANCES

The horizontal location of any point on a surface or interface between material types shall not differ from the required location by more than ± 50 mm except for the following situations:

- for edges not adjacent to a structure, $- 50$ mm / $+ 250$ mm (where the $+$ tolerance is in the direction which increases the width of the earthworks)
- the width of an embankment at subgrade level shall not be less than that specified; and
- where alignment of the pavement with an existing structure is necessary, new work shall be joined to the existing in a smooth manner approved by the Superintendent.

Heights of earthworks measured anywhere on a layer surface shall not vary from those required by more than the tolerance stated below unless specified or approved otherwise. Average tolerances shall apply to results for a completed lot.

Location	Vertical Tolerance (mm)
Subgrade level (individual results)	+ 25 / - 75
Subgrade level (average)	+ 10 / - 50
Top of embankment, other than at subgrade level	± 50

Top of in situ material below subgrade in cuttings	± 50
Inverts of drains	± 50

The gap beneath a three metre long straight-edge placed anywhere on the surface at subgrade level shall not exceed 25mm, due allowance being made for design shape where relevant.

The crossfall of the surface of the finished subgrade shall be maintained within 0.5% of that specified, providing that the pavement thickness will not be less than that specified or shown on the drawings.

All embankments, subgrade, benches, berms and drains shall not pond water and shall be free draining.

Tolerances for horizontal alignment of batters, measured at right angles to the design control line, shall be ± 300mm provided maximum batter slopes are achieved.

3.21 EXCAVATION IN ROCK

The Contractor is to include an “excavated” cubic metre rate for excavation in rock, however rock is not expected to be encountered on this site.

The definition of “rock” shall be material which cannot be ripped at a production rate of 3 cubic metres per hour by a Class 85 excavator (19-23t operating mass; 85-100kW nett engine power; 600mm maximum bucket width) equipped with a manufacturer-approved heavy duty / rock bucket with teeth fitted with high penetration boots.

The Contractor shall adopt construction practices and recommend design changes (if applicable) which minimise excavation in rock, prior to undertaking work could be readily foreseen to encounter rock.

3.22 PAVEMENT

3.22.1 GENERAL

Pavement construction includes all operations associated with, placing and compacting of approved material of specified quality throughout the Works and all other activities required to produce finished pavements as specified to the

alignment, grading and dimensions shown on the Drawings, scheduled herein and as approved by Council.

All paving is to be carried out in accordance with CMDG Construction Specification C242 except if specified otherwise herein.

3.22.2 MATERIAL QUALITY

Material to be used in the construction of pavements for this Quotation shall comply with the following:-

- For Material Type 3.1
 - Maximum linear shrinkage % – 4.5
 - Minimum laboratory unsoaked CBR at OMC and MDD – 80
- For Material Type 3.3
 - Maximum linear shrinkage % - 6.5
 - Minimum laboratory unsoaked CBR at OMC and MDD – 45

Maximum dimension, measured in any direction, of aggregate pieces in Type 3 material for pavement construction shall not exceed 50% of the approved compacted layer thickness.

The Contractor shall obtain the prior written consent of the Superintendent to the proposed source of supply of paving material. Proposals in this regard shall be submitted at least three working days before supply is due to commence and shall include test results demonstrating compliance with quality requirements.

No material shall be carried or placed until the Contractor has received approval from the Superintendent that the proposed material is acceptable.

All pavement material incorporated into the finished pavement shall be free from sticks, organic matter, clay lumps and other deleterious material or contamination.

3.22.3 PAVEMENT CONSTRUCTION

Methods of excavation, transport, depositing and spreading of pavement material shall be selected so as to ensure that placed material is uniformly mixed.

Material for pavement construction shall be placed in conforming horizontal layers and compacted.

All pavement batters are to be at a maximum grade of 1 on 4 unless indicated otherwise.

Pavement layers shall be uniformly compacted to not less than the relative compaction specified before the next layer is commenced. Each layer of material shall be trimmed prior to and during compaction to avoid bridging over low areas. A smooth surface shall be presented at the top of each layer.

Unless otherwise specified, pavement shall be compacted to provide a relative compaction of no less than 100% standard compaction determined by AS1289.

3.22.4 PAVEMENT TESTING

Testing frequencies specified in CMDG Construction Specification C242 Annexure C242A will be applicable.

In all cases, a minimum of two (2) tests will be required.

3.22.5 PAVEMENT TOLERANCES

Pavement tolerances specified in CMDG Construction Specification C242 Table C242.23.1 will be applicable.

The gap beneath a three metre long straight-edge placed anywhere on the surface at pavement level shall not exceed 12mm, due allowance being made for design shape where relevant.

The crossfall of the surface of the finished pavement shall be maintained within 0.5% of that specified, providing that the pavement thickness will not be less than that specified or shown on the drawings.

All pavement surfaces shall not pond water and shall be free draining.

3.23 DISPOSAL OF MATERIALS

Unless otherwise specified, 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.

Unless otherwise approved in writing, disposal of timber and other combustible materials by burning shall not be permitted. Where approval is granted, 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 or property outside the limits of clearing. Smoke resulting from such burning off shall not cause a traffic hazard or other public nuisance.

3.24 CONCRETE WORKS

3.24.1 KERB AND CHANNEL GENERAL

All materials and construction shall comply with AS 2876 except for dimensions detailed on RS-080. Available at: -

<https://www.moretonbay.qld.gov.au/files/assets/public/services/building-development/standard-drawings/standard-drawing-rs-080.pdf>

Kerb and channel shall be constructed over an extended width sub-base layer unless otherwise directed by the Superintendent.

3.24.2 CONCRETE STRENGTH

All concrete is to be N32 minimum in accordance with AS 1379 and AS 3600 unless approved otherwise by the Superintendent.

3.24.3 CONCRETE JOINTS

Control joints shall be at maximum 3 metre centres unless otherwise directed by the Superintendent.

Expansion joints shall be at maximum 12 metre centres unless otherwise directed by the Superintendent. Application of expansion joints, preformed jointing material of bituminous fibreboard or equivalent to be approved by the Superintendent.

3.24.4 CONCRETE FINISH

Immediately following compaction and screeding the concrete shall be tested for high or low spots and any necessary corrections made.

The surface shall be finished true and uniform and free from any glazed or trowelled finish and shall be finally dressed with a wooden template or float, or by the use of belting in an approved manner. The departure from grade shall not exceed 5mm in any 3 metre length.

Where an asphaltic concrete wearing surface is specified, the surface of the concrete, after being compacted, screeded and corrected, shall be dressed with a wooden float and finally broomed to produce a rough surface.

3.25 DISPOSAL OF REFUSE

Remove from the site any refuse, including food scraps and the like resulting from work under the Contract and dispose of to an approved location or as otherwise approved by the Superintendent. Handle refuse in a manner so as to confine the material completely and prevent excessive dust or odour emission.

All costs associated with the removal of refuse from the site shall be the responsibility of the Contractor.

3.26 INSPECTION AND TESTING REQUIREMENTS

The Contractor shall provide all necessary certificates and evidence of conformance of the completed works with the relevant specifications. Finished levels of subgrade and each pavement layer are to be provided in accordance with the relevant standards.

The Contractor shall provide minimum 48 hours advance notice of inspections required at the hold points nominated below:

- Stormwater drainage pipelines complete prior to backfilling;
- Water and sewerage reticulation during testing;
- Formwork, reinforcement and joints, prior to pouring of concrete;
- Cutting floors at subgrade depth;
- Subgrade prior to pavement placement;
- After placement of sub-base course and prior to placement of kerb and channel;
- At completion of kerb and channel and prior to placement of base course;
- Pavement complete after placement of base course and prior to surfacing;
- Proof rolling of structural foundations, subgrades and pavement layers;
- At Practical Completion; and
- At completion of Defects Liability Period.

Unless approved otherwise, all compliance testing shall be carried out by a National Association of Testing Authorities Australia (NATA) registered testing authority engaged by the Contractor. The Contractor shall provide original signed copies of all test certificates to the Superintendent's Representative at the completion of each stage of the works. Payment for compliance testing will be deemed to be included in the rate for undertaking the relevant item of work.

3.27 GUARANTEES

Where in the Specification guarantees are called for, the Contractor shall obtain written guarantees and test certificates from the firms carrying out the work or supplying the goods, addressed to and handed to the Principal at Practical Completion. The date for start of the guarantee period shall be the Date of Practical Completion.

3.28 COMPLETION

On completion, the Contractor shall ensure that the site is left in a fit and proper state and ready for operation.

The contractor shall restore all existing structures, fences, gardens, turf, walls, concrete or paved surfaces, roads and paths, trees and other property which have been effected by the works to a condition equivalent to that existing prior to commencement of the Works, unless the owner agrees otherwise. The owner will not have been deemed to so agree unless the Superintendent receives written confirmation of such agreement.

Except that any fences damaged or removed during the execution of the work shall be repaired or reinstated to the satisfaction of the Superintendent immediately the work has been completed at any particular location and an effective temporary fence shall be erected during the progress of the work.

SECTION A STANDARD SPECIFICATIONS

The following standard construction specifications from the Capricorn Municipal Development Guidelines (CMDG) suite shall apply to this project. These specifications are available for download from:-

<http://www.cmdg.com.au/Guidelines/ConstructionSpecifications/ConstructionSpecifications.html>

Specification No.	Specification Description	Issue Date
C201	Control of Traffic	3 – July 2018
C202	Rural Road Clear Zones	3 – July 2018
C211	Control of Erosion & Sedimentation	2 – July 2018
C212	Clearing and Grubbing	3 – July 2018
C213	Earthworks	2 – July 2018
C220	Stormwater Drainage	3 – July 2018
C221	Pipe Drainage	1 – Oct 2007
C222	Precast Box Culverts	3 – July 2018
C223	Drainage Structures	3 – July 2018
C224	Open Drains	1 – Oct 2007
C230	Subsurface Drainage	3 – July 2018
C231	Subsoil and Foundation Drains	3 – July 2018
C232	Pavement Drains	2 – July 2018
C233	Drainage Mats	2 – July 2018
C241	Stabilisation	1 – Oct 2007
C242	Flexible Pavements	1 – Oct 2007
C244	Sprayed Bituminous Surfacing	1 – Oct 2007
C245	Asphaltic Concrete Surfacing	3 – Nov 2019
C261	Pavement Markings	2 – July 2018
C262	Signposting	2 – July 2018
C263	Guideposts	2 – April 2019
C264	Guardrail	2 – April 2019
C265	Boundary Fencing	2 – July 2018
C271	Concrete Minor Works	2 – July 2018
C273	Landscaping	3 – Jan 2017
C501	Bushfire Protection	3 – July 2018

SITE PHOTOS AVAILABLE ON REQUEST

DRAWINGS