

COFFS HARBOUR CITY COUNCIL



**DEVELOPMENT SPECIFICATION
DESIGN**

0179 General requirements (Construction)

Version 1 01 January 2009

0179 GENERAL REQUIREMENTS (CONSTRUCTION)

1 SCOPE AND GENERAL

1.1 SCOPE

This worksection sets out the quality system or quality control, set out of works, work as executed drawings, environmental protection, site facilities, meetings, supply by Principal, utilities and authorities requirements and project specific requirements.

1.2 REFERENCED DOCUMENTS

The following documents referred to in this worksection shall be deemed as the latest edition of the Australian Standards, including amendments and supplements.

Worksections

0161 Quality (Construction)

1102 Control of erosion and sedimentation

1112 Earthworks (Roadways)

1195 Boundary fences for road services

2 PROJECT SPECIFIC INFORMATION

2.1 LOCATION AND DESCRIPTION OF PROJECT

Location

The Works are located: [complete/delete]

Description

The Works comprise of the construction of: [complete/delete]

Site Access

Access to site shall be from (Contractor's and Public): [complete/delete]

Possession

Possession of site shall be given: [complete/delete]

2.2 EXTENT OF WORK

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

- General
 - . Provision for control, protection and safety of traffic during construction including notifications to and obtaining approvals from Authorities.
 - . Notification of all appropriate property owners adjoining the Works.
 - . Setting out the Works.
 - . Erosion and sedimentation control of the Works, including stockpile areas.
 - . Site clearing and grubbing. Topsoil to stockpile.
 - . Topsoil and hydromulch to disturbed areas.
- Roadworks
 - . Provide provisions for traffic in accordance with the concept illustrated in Reference Drawings, including:
 - * New Jersey type barriers at lead ins to the working area in each direction.
 - * Plastic mesh fencing and warning lamps over the entire working length.

- . Clearing and grubbing sufficient to allow Works to be undertaken.
- . Stripping of topsoil.
- . Excavation to windrow.
- . Construction of embankment from excavated material and borrow stockpiles.
- . Construction of 5 MPa mass concrete subbase.
- . Construction of 200 mm 32 MPa concrete base.
- . Backfill and topsoiling.
- . Hydromulching restored areas.
- . Disposal of any excess material remaining in borrow stockpiles.

2.3 WORK BY OTHERS

Liaison

The excluded work will be the responsibility of the Principal and Utility Authorities. Attention is drawn to the Conditions of Contract regarding the obligation of the Contractor to co-ordinate the Works with any simultaneous and/or adjacent work by others. The Contractor shall liaise with these Contractors and Authorities to avoid disruption, delays and possible conflict.

[complete/delete]

Borrow

The borrow material required to complete the Works will be stockpiled by others prior to commencement of this Contract.

Bridge construction

The construction of the bridge within this Contract length will be undertaken concurrently by others. This includes the construction of bridge approach slabs and completion of the guardfence over the length of the approach slabs to join to the bridge.

Utilities

Utility adjustments and relocations by Water and Electricity Authorities.

Construction sequence and staging

Separable parts

The Contractor's programme shall allow to complete Separable Parts of the Works by the times stated in Annexure Part A to the General Conditions of Contract, taking into account and clearly indicating the restrictions imposed by utility relocation.

Refer to Utilities and authorities for timing of utility works.

2.4 SUBSURFACE CONDITIONS

[complete/delete]

Contractor to make assessment

The Contractor's attention is drawn to the General Conditions of Contract Clause 'Site Conditions'. The Contractor should make an assessment of the in-situ moisture content likely to be encountered at the actual time work is to be carried out.

2.5 OTHER PROJECT SPECIFIC ITEMS

[complete/delete]

3 GENERAL

3.1 DRAWINGS

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

3.2 STANDARDS AND TEST METHODS

Australian Standards

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

Applicable edition

A standard applicable to the Works shall be the edition last published 14 days prior to the closing date for tenders unless otherwise specified.

Overseas standards

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.

Copies to be kept on site

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

Test methods other than Australian Standards

Test Methods, other than Australian Standards, specified in the Technical Specifications shall refer to the issue dates current at 14 days prior to the closing date for tenders unless otherwise specified.

3.3 TESTING AND SURVEY

All testing and survey as required by the Technical Specifications shall be arranged and carried out by the Contractor after approval to proceed with testing and survey is obtained from the Superintendent.

All test results and survey records shall be made available to the Superintendent if requested to do so. The cost of all such testing and survey shall be borne by the Contractor.

The minimum frequency of testing and survey shall be in accordance with either 0161 *Quality (Constructions)*. The appropriate requirements for this Contract are cited on the Form of Tender.

3.4 WORKING AREAS

Designated sites

Where the Drawings indicate construction working areas and areas for temporary site facilities such as the storing of materials, use of plant and erection of sheds, work shall not be performed nor the site occupied outside of these areas.

Security

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.

Temporary fencing

If existing fencing on the Principal's property 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 Principal's property, and shall reinstate the fencing and remove temporary fencing on completion of the work.

For fencing of temporary site facilities, refer to Chain wire fence.

Safety signs

The Contractor shall erect appropriate regulatory, hazard, emergency information and fire signs, in accordance with AS 1319 Safety signs for the occupational environment, at prominent locations around the working areas and temporary site facilities. Signs shall include, but are not limited to: mandatory signs for personal 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.

3.5 SMOOTH JUNCTIONS

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

3.6 SETTING OUT THE WORKS

Provision of marks

The Superintendent will provide Permanent Marks as shown on the Drawings. The Superintendent will also establish bench marks related to the level datum.

Transfer of marks

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.

Relocation of survey control

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.

Recovery pegs

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.

Removal on completion of the works

All pegs and profiles placed by the Contractor shall be removed on completion of work unless otherwise directed by the Superintendent.

3.7 SITE MEETINGS

Representation

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.

Minutes

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.

3.8 ALTERNATIVE CONSTRUCTION

Detailed working drawings

Should a tender based on the use of alternative material, design or method of construction be accepted, the Contractor shall prepare and submit detailed Working Drawings, design calculations and specifications for the alternative, together with details of necessary alterations to this worksection.

Preparation and submission

The design and construction documents required shall be prepared under the supervision of, and be certified by a Professional Engineer experienced in that type of design.

Documents shall be submitted to the Superintendent at least four weeks before construction of the relevant part of the work is scheduled to commence and no work shall commence on that part until written authority to proceed has been issued by the Superintendent.

Costs of alternative construction

All costs incurred in the preparation of Working Drawings, design calculations, specifications and any variations or supplementary submissions required by the Superintendent shall be borne by the Contractor.

3.9 WORKING DRAWINGS

Submission to superintendent

Where the Contractor is required to provide Working Drawings, two sets of such drawings, together with two sets of supporting calculations, shall be prepared and submitted to the Superintendent not less than the minimum time specified prior to scheduled commencement of the work concerned.

Draftsmanship and legibility

Drawings submitted shall be of a standard of draftsmanship and legibility acceptable to the Superintendent. The Working Drawings and calculations shall be altered or supplemented promptly if so required by the Superintendent and the aforesaid number of sets of revised drawings and calculations shall be resubmitted.

Approval to proceed where working drawings required

The work concerned shall not be initiated until a set of Working Drawings has been returned to the Contractor together with written authorisation to proceed. Upon receipt of this authorisation the Contractor shall revise the Working Drawings to incorporate any conditions attached to such authorisation and shall forward to the Superintendent four additional sets of such revised Working Drawings.

Compliance with contract

The Superintendent's written authorisation to proceed shall not relieve the Contractor of the responsibilities for the design (where applicable) and construction of the Works in accordance with the Contract.

Authorised variations to working drawings

After the Superintendent's authorisation to proceed has been issued, variations to the Working Drawings shall be made only after obtaining a specific written authorisation for the variation from the Superintendent. Four sets of such revised Working Drawings shall then be submitted to the Superintendent.

Cost to prepare and supply working drawings

Costs incurred in the preparation and supply of Working Drawings, supporting calculations and other documents and any variations or supplementary submissions required by the Superintendent shall be borne by the Contractor and shall be considered as incidental to the relevant items of work.

3.10 WORK-AS-EXECUTED DRAWINGS

Submission

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 reproducible of the Contract Drawings will be supplied by the Principal free of charge for this purpose.

Roadworks

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 Contractor.

Bridgeworks

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 Contractor.

3.11 ITEMS TO BE SUPPLIED BY THE PRINCIPAL

Delivered free of cost to nominated points

Items listed in Annexure A—Schedule of Items to be supplied by the Principal (TBS Items) will be supplied, delivered and unloaded by the Principal free of cost to the Contractor at points to be nominated. The Contractor shall give the Superintendent notice of the time delivery of TBS Items are required in accordance with the Requirements of the Technical Specification or as specified below.

Damaged or defective

If any TBS Item is found to be damaged or defective the Contractor shall so inform the Superintendent within 2 days of taking delivery of such item.

If the Contractor does not report damage or defect, it shall be deemed that the TBS Item was free from damage or defect when received.

The Contractor shall then be responsible for any replacement or making good as may be directed by the Superintendent in the case of a Quality Control Contract, or in accordance with the Disposition of Nonconformance requirements in 0161 *Quality (Construction)* in the case of a Quality Assured Contract.

The Contractor shall be responsible for the storage, protection and insurance of all TBS Items received.

In the case of pipe culverts the Contractor shall give the Superintendent 30 days notice of the time delivery is required.

The Principal shall supply the pipe culverts at no cost to the Contractor for the actual length laid of pipe culvert required under the contract.

Any pipe culverts in addition to the above quantity shall be the responsibility of the Contractor to supply at no cost to the Principal.

4 ENVIRONMENT

4.1 PROTECTION OF THE ENVIRONMENT

Conformance to Acts

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 any Environmental Impact Statement and Assessment Report or Review of Environmental Factors for the project, the conditions of approval imposed by the Environment Protection Authority, the Protection of the Environment Operations Act, the Rural Fires Act and any other Local Council requirements and environmental Act relevant to the project. No variation in costs or extensions of time will be considered due to these requirements.

Erosion control

The Contractor shall plan and carry out the Works to avoid erosion, contamination and sedimentation of the site and its surroundings in accordance with 1102 *Control of erosion and sedimentation*.

No toxic chemicals

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

Noise and smoke

No noise or smoke or other nuisance, which in the opinion of the Superintendent 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 in Limits on Noise.

Dust control

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

Details of dust control are to be submitted in writing to the Superintendent two (2) weeks prior to commencing excavation/earthworks operations.

4.2 DRAINAGE OF WORKS

Stormwater control

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

Stormwater diversion

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.

Pumping

The Contractor shall keep trenches and excavations dewatered at all times during construction, and if directed by the Superintendent, shall maintain efficient pumping equipment on site.

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

4.3 BLASTING

Blasting shall not be permitted, unless otherwise approved by the Superintendent. If such approval is given then blasting shall be carried out in accordance with 1112 *Earthworks (Roadways)*.

4.4 LIMITS ON NOISE

Plant with silencers

The Contractor shall only use plant that have effective residential class silencers fitted to all engine exhausts, have engine covers fitted, and are maintained in good order.

Working hours

Operational hours of plant, including the entry and/or departure of heavy vehicles, shall be restricted to 7 am to 6 pm Monday to Friday, 7 am to 1 pm on Saturdays 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.

Maximum noise levels

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 reasonably anticipated to annoy or adversely effect the adjacent community.

Responsibility for damage

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.

4.5 LIMITS ON GROUND VIBRATION

Levels

It is the intent of this worksection 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 the current Statutory Regulation. Where such regulation is not available, or jurisdiction is disputed, the criteria given in this clause shall apply.

Limits

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

Curve 4—for the period of 1 month or less

Curve 2—for the period of more than 1 month

as defined in British Standard BS 6472 'Evaluation of Human Exposure to Vibration in Buildings (1 HZ to 80 HZ)' when measured inside nearby residential premises.

Peak particle velocity

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

Responsibility for damage

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.

4.6 OTHER PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENTS

[complete/delete]

5 UTILITIES AND AUTHORITIES

5.1 GENERAL

This section includes the location and protection of utilities and services, programming of the work by other Authorities and the Contractor, and an outline of utility adjustments required during the construction of the Works.

5.2 RELATIONS WITH UTILITY AUTHORITIES AND OTHER AGENCIES

Principal to arrange adjustments to utilities

The Superintendent will arrange for all necessary adjustments to utilities required to conform to the Drawings unless specified otherwise or noted on the Drawings. The Superintendent will make every endeavour to arrange for such adjustments to be performed expeditiously and with a minimum of inconvenience to the Contractor. Work shall comply with the Streets Opening Conference's Information Bulletin on Codes and Practices.

Check on presence

Before proceeding with excavation or other work in any area, the Contractor shall liaise with the utility authorities to ascertain the presence of any utility services and check that all necessary utility relocations have been completed.

The utility authorities contact person/position, telephone and facsimile numbers, (correct at time of advertising of tender) are listed below:

(TO BE COMPLETED BY COMPILER)

Water and sewerage

Name:..... PH:..... FAX:.....

Position.....

Electricity

Name:..... PH:..... FAX:.....

Position.....

Gas

Name:..... PH:..... FAX:.....

Position.....

Telephone

Telstra

Name:..... PH:..... FAX:.....

Position.....

Optus

Name:..... PH:..... FAX:.....

Position.....

Other (as required)

Name:..... PH:..... FAX:.....

Position.....

Other utilities (cables and pipes belonging to road authorities, private companies, universities, schools, etc)

Name:..... PH:..... FAX:.....

Position.....

The 'Dial Before You Dig' Service, telephone 1100, may be contacted to obtain locations of water, sewer, stormwater, gas, electricity and telephone services and some cables and pipes of companies and other organisations.

Additional adjustments

Where the Contractor's method of working results in additional adjustments to their plant being deemed necessary by any other Authority the Contractor will arrange for and bear all costs relevant to those additional adjustments. This applies regardless of any approval to the method of working by the Superintendent.

Minimum interference with services and other contractors

The Contractor shall conduct the operations so as to interfere as little as possible with the operations of other Authorities or their contractors on or near the site of the works. The Principal reserves the right to permit other Authorities and others to work on or near the Works being constructed under the Contract.

Responsibility for maintenance and protection of services

The Contractor will not be responsible for the maintenance of any facilities installed or constructed by the various Authorities or structures and other facilities constructed by others (except where such structures and facilities form part of the Contract), but will be responsible for the protection of such facilities and structures during the Contract period.

Delays due to works by authorities

In certain instances the Contractor may be required to provide the various Authorities the opportunity to remove, relocate, or work on their facilities before the Contractor proceeds with succeeding construction operations.

Should the Contractor suffer any delay in excess of the times set out in this worksection owing to the moving of any such services, or the operations of any Authority controlling such services, the Contractor may apply to the Superintendent for an extension of time in accordance with the Conditions of Contract.

The Contractor shall have no right to monetary compensation or to any claim for damages because of any loss owing to such delays, nor shall the Contractor stop the Works without the express permission in writing of the Superintendent because of any operation by other Authorities.

5.3 LOCATION AND PROTECTION OF SERVICES AND UTILITIES

Contractor to verify locations

Prior to the commencement of any excavation the Contractor shall verify the location and depth of all Public Utility Mains and Consumer Services and shall be responsible for any damage caused, the repair of the damage, and payment of all charges associated therewith.

Precautions

During the excavation of Works, the Contractor shall take every precaution that is necessary, in the opinion of the Superintendent, to secure existing gas, water or drainage pipes, sewers, electric conduits or other existing works, wherever met with both underground and overhead, or that are adjacent to these Works, from injury and shall maintain the same until in the opinion of the Superintendent, the backfilling of excavation and the general progress of the Works render further precautions unnecessary.

The Contractor shall comply with the Statutory Requirements for maintaining safe working clearance to overhead electrical services.

Repairs to damage caused by contractor

Damage to existing water, gas or drainage pipes, sewers, electric conduit or other existing works or services, shall be repaired by the Contractor to the satisfaction of the Superintendent and the relevant Authority at the Contractor's cost.

Notice to divert services

Where it is found necessary to remove, divert or cut into any existing sewer, drainage pipe, gas or water main, service pipes, electric conduits or other existing works, the Contractor shall give at least 3 days notice of the Contractor's requirements to the Superintendent, who will advise what arrangements should be made for the alteration of such existing works.

Liaison

Where the installation of service mains, pits and consumer service connections is to be carried out by the various Utility Authorities the Contractor shall liaise and co-ordinate with the relevant Authorities for the installation to coincide with the construction work of this Contract.

The Contractor shall be responsible to programme the installation such that all work is completed by the relevant Authorities so as not to hinder or delay the progress of the construction work of this Contract.

Limitations to work methods

Attention is directed to the possible existence of vibration and other working limitations in the vicinity of underground and overhead facilities. The extent of these limitations are liable to the absolute discretion of the Authority concerned.

The Contractor shall be deemed to have included consideration of these potential limitations in the method of construction as proposed for approval by the Superintendent in accordance with the provisions of this worksection.

The cost of such limitations on working methods shall be determined in accordance with the Conditions of Contract.

Disclaimer to information shown on drawings

Information shown on the Drawings concerning utility services has been compiled from information obtained from various Utility Authorities and is not guaranteed correct or complete. Services may exist which are not shown on the Drawings, or which are at locations or elevations different than those shown on the Drawings.

5.4 PROGRAMMING AND DURATION OF UTILITY ADJUSTMENTS

Notice of date of completion of parts of the Works required before utility services can be relocated

The Contractor shall give the Superintendent 21 days' notice in writing of the expected date of completion of each of the necessary parts of the Works required before each of the utility services listed in this worksection can be relocated.

No final trimming or subsequent parts of the Work shall proceed in any area of the Work until the adjustment of all utilities within that area is complete.

Allowance for utility adjustments

The Contractor shall allow in the programming of the Works for the utility adjustments specified in the following clauses. The finish dates given are approximate only. The Contractor shall be entitled to extensions of time if the utilities have not been relocated by these dates and this causes delay to the Contract.

The Contractor shall have no right to monetary compensation or to any claim for damages because of any loss attributable to such delays.

5.5 STREET LIGHTING

Site specific: [complete/delete]

5.6 UTILITY RELOCATIONS

Site specific: [complete/delete]

6 SITE FACILITIES

6.1 GENERAL

Workers' facilities

This section includes the provision, maintenance and removal or restoration on completion of the Work of temporary site facilities for personnel, including the office for the Superintendent, and the necessary temporary utility services required on the site.

Facilities required

The Contractor shall provide, equip and maintain temporary ablution facilities, dressing rooms, tool houses and the like required by any Industrial Ordinance, Award or Agreement for use of workers employed by the Contractor, or the Contractor's sub-contractors, and shall remove them on completion of the Contract.

Latrines

The Contractor shall provide temporary latrine accommodation for use of the workers which shall be suitably enclosed and screened and in accordance with the requirements of the Local Authority, making a temporary connection to an existing sewer where one is available. The Contractor shall maintain such accommodation in a clean condition, pay all relevant fees and remove it on completion of the Work, capping off any temporary sewer connection.

6.2 OFFICE FOR SUPERINTENDENT

The Contractor shall provide, equip, maintain and remove at the completion of the Works an office, including toilet facilities, for the sole use of the Superintendent and Superintendent's staff.

The office shall be comprised of:

- Building:

A structure of prefabricated construction with minimum inside dimensions of 6 m x 3 m x 2.4 m high exclusive of toilet facilities, weatherproof, adequately insulated and well ventilated.

The office shall contain 2 opening type windows fitted with insect-proof screens and an external door fitted with a cylinder night lock with 2 keys.

The floor area shall be covered with an approved vinyl flooring and the walls and ceiling painted to the approval of the Superintendent.

- Furniture and fittings

The office shall contain:

- . One reference table of minimum size 1.5 m × 0.9 m.
- . One desk, with lockable drawers, of minimum size 1.5 m x 0.9 m.
- . Three office chairs and one stool all with padded seats, swivel base and adjustable height.
- . Two 1.2 m square pin boards fixed to the walls.
- . One 0.75 kW reverse cycle air conditioner.

- Toilet facilities

The toilet facilities shall consist of a prefabricated structure, weatherproof and well ventilated, and connected to the temporary sewerage system and containing:

- . One, minimum, partitioned w.c. cubicle with door and latch.
- . Separate wash area with one, minimum, wash basin connected with hot and cold running water.
- . Lockable external door with 2 keys.

- Electricity

The office, including toilet facilities, shall be supplied with adequate electric lighting and the office with 2 double power points.

- Telephone

Two telephone lines shall be connected to the office with one line fitted with a telephone hand set. The second line shall be for a facsimile machine supplied by the Superintendent.

- Charges

The Contractor shall pay all charges resulting from the supply, erection, installation, maintenance, cleaning and removal of the office, toilet facilities, electricity and telephone services.

6.3 ALTERNATIVE SITE FACILITIES

The Contractor may propose alternative site facilities in existing buildings adjacent to, or in close proximity to, the site of the Works.

Full details of such alternative facilities shall be submitted for consideration by the Superintendent, however, the requirements detailed in Office for Superintendent shall be taken as the minimum acceptable.

6.4 WATER SUPPLY

Temporary water supply

The Contractor shall provide any temporary water supply required for site facilities and for carrying out the Work under the Contract.

Fees and charges

The Contractor shall pay all fees and obtain all approvals in respect of the temporary service and shall pay any charges for the water used. On completion of the Contract the temporary water supply service, except that to the Superintendent's office, shall be removed by the Contractor.

6.5 ELECTRICAL SERVICE

Temporary electricity supply

The Contractor shall provide any temporary electricity supply required for site facilities and for carrying out the Work under the Contract.

Fees and charges

The Contractor shall pay all fees and charges and shall obtain all approvals in respect of the temporary electricity supply. The temporary electrical installation and the electrical reticulation shall fully comply with and conform to the Service Rules, Regulations and Requirements of the Statutory Authority having jurisdiction. The Contractor shall pay for all electricity consumed.

Removal

The temporary electricity service, reticulation and lighting, except that to the Superintendent's office, shall be removed by the Contractor on completion of the Contract.

6.6 TELEPHONE

Provision

The Contractor shall arrange for installation of a temporary site telephone for the Contractor's and Sub-contractor's use and shall maintain the installation for the period of the Contract.

Charges

All charges for installation, rental, calls and removal on completion shall be borne by the Contractor.

6.7 FIRST AID

The Contractor shall provide, equip and maintain an adequate First Aid Treatment Centre on the site and shall have an experienced First Aid person available at all times when work is in progress.

The First Aid facilities shall be clearly marked and readily accessible to all personnel at all times. The minimum provisions under this Clause shall satisfy the current statutory requirements.

6.8 CHAIN WIRE FENCE

Standard

The Contractor shall provide a 1.83 m high galvanised chain wire mesh perimeter fence, in accordance with the requirements of 1195 *Boundary fences for road reserves*, together with a galvanised tubular steel vehicular access gate, for the temporary site facilities as shown on the Drawings or as directed by the Superintendent.

Hessian covering

The mesh fence shall be covered with a suitable hessian or shade cloth screen for its full height.

Removal

The galvanised fence, screen material and gate shall be removed by the Contractor on completion of the Contract.

Other fencing

If a fence, in accordance with Chain Wire Fence is not required, the Working area including the site facilities shall be fenced off from the public to the satisfaction of the Superintendent and in accordance with any relevant regulations.

7 SPECIAL REQUIREMENTS

[complete/delete]

8 MEASUREMENT AND PAYMENT

8.1 DEDUCTIONS FOR NONCONFORMING WORK

Where deductions for nonconforming work are given in the worksections, the nominated deductions shall be applied to the rates given in the Pay Items for that item of work.

8.2 PAY ITEMS

No separate measurement and payment shall be made for compliance with the requirements of this worksection except as specified in the pay item below.

0179.1 Office for Superintendent

The unit of measurement shall be lump sum and shall include provision of all facilities detailed in Office for Superintendent.

9 ANNEXURE A

9.1 SCHEDULE OF ITEMS TO BE SUPPLIED BY PRINCIPAL
