

PART E

TECHNICAL REQUIREMENTS

TECHNICAL REQUIREMENTS

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E1 GENERAL

E1.1 GENERAL

The Works to be carried out by the Contractor under this Contract shall comprise of the design and construction and all necessary statutory approvals of a portal frame facility within the Rail Transport Museum (NSW), based at Thirlmere. The RTM (NSW) is a facility owned by StateRail and operated by the RTM. StateRail will initially utilise the portal frame facility for the removal of asbestos from 18 heritage locomotives.

The Contractor will be required to undertake the detailed design utilising the prepared concept design, obtain Construction Certificate or BCA Certificate and construct the facility within an operational rail environment. The facility is envisaged to include sheet metal cladding, reinforced concrete floor slab, building services, services infrastructure and a water tank to collect roof water run off.

The Contractor must undertake, complete and co-ordinate all areas of design, approvals, construction and site management required for the execution of the work under the Contract.

E1.1.1 Project Background

During service on the NSW railways, asbestos was used as an insulating medium on most steam locomotives. On retirement from revenue service, a number of locomotives were placed in the care and custody of the RTM (NSW) for conservation, in most cases with asbestos still existing on or in the locomotive(s).

Following an assessment of 57 steam locomotives in StateRail's heritage rolling stock collection by an environmental consultant, it has been confirmed that friable asbestos is present in 18 locomotives located at the RTM (NSW).

StateRail also has obligations under the Occupational Health and Safety Act 2000 and as such, StateRail now intends to undertake asbestos removal works on the 18 identified locomotives.

Due to the type of asbestos and the associated occupational health and safety issues, the dismantling of the locomotives and the asbestos removal will be undertaken within a facility properly fitted out to remove asbestos safely.

StateRail proposes to construct a facility at the Thirlmere site, inside which the asbestos removal works will be undertaken. The facility will be retained for use by the NSW Rail Transport Museum upon completion of the asbestos removal works – potentially as a paint shop.

StateRail seeks to engage a contractor to undertake the design and construction of the portal frame facility at the Thirlmere site.

E1.2 LOCATION AND DESCRIPTION OF SITE

The site is situated at the north east end of the fully operational Thirlmere Rail Transport Museum between railway lines and in close proximity to an existing maintenance shed detailed on the Site Plan in Appendix E1. The operational site is run and operated by NSW Rail Transport Museum (RTM) and is bounded by Barbour Road

to the west and Station Street to the east. The Site is surrounded by residential properties, tenants (Bush Fire Brigade), adjoining property owners (the Whistle Stop Café), both to the northeast and there is a primary school to the west of Barbour Road.

The overall Thirlmere site functions as a railway museum, storage and maintenance facility and is therefore, in part, open to the public. The Museum is open to the public at the following times; weekends and public holidays 9:00 to 17:00, weekdays 10:00 to 15:00, and NSW public school holidays weekdays 9:30 to 16:00.

E1.3 SCOPE OF WORKS

The Scope of Works includes, but is not limited to:

E1.3.1 Detailed Design

The Contractor will be required to utilise the concept design prepared by Caldis Cook Group (Drwg. No. DA-01) incorporating a site plan, floor plan, section and elevations and finalise the detailed design. The detailed design will be reviewed and accepted by the Principal, prior to the Contractor seeking any approvals. It is anticipated that the Contractor will be required to meet with both RTM and StateRail during the detailed design to ensure the final design (at 30%, 60% and 90% of documentation) meets Principal and tenant requirements.

The Contractor will be required to undertake all investigation works, necessary to undertake the Contract. These will include, but not limited to investigations of the existing retaining wall, geo-technical investigations and soil testing by an environmental consultant (if required).

Consideration of OHS issues in the design phase of a construction project is essential to optimising OHS outcomes. The Contractor is to consider and address OHS requirements during the design for health and safety of construction, operational and maintenance personnel.

The concept design identifies the basic provisions of the facility and is accompanied by the following additional requirements. Refer to the concept drawing for dimensions, approximate locations and further details.

It is anticipated that the structure will include, but not limited to the following:

- Structural steel portal frame, clad in steel Trimdek with a concrete bunded perimeter area.
- Roof to be clad in steel Trimdek profile roofing with Trimdek polycarbonate (translucent) panels intermittently.
- 2 no. personnel access external door of steel faced solid core, with hardware compliant to a means of Egress.
- Large electronically operated roller shutter door at one end.
- Provide concrete blocks to accommodate rail track. Exact dimensions and locations to be confirmed with RTM. (Rail track to be provided and laid by RTM).
- Platform with stair access.

- Reinforced concrete slab with appropriate falls hob across entry.
- All surface water internally to drain to pits; no spill to outside
- High level monorail, centrally located over rail line to accommodate 2 tonne crane.

It is anticipated that the electrical works will include, but not limited to the following:

- Water proof high bay lighting to meet minimum legislative and Australian Standard requirements.
- Fourteen (14 Numbers) wall surface mounted double power sockets (with water proof covers or equivalent for hosing out facility during usage) and eight (8 Numbers) suspended power sockets (with water proof covers or equivalent for hosing out facility during usage). All power points to be single-phase 240 volt supplied. Exact locations to be determined during detailed design.
- Emergency lighting in accordance with legislative requirements and the Building Code of Australia.
- Emergency exit lighting in accordance with legislative requirements and the Building Code of Australia.
- Automatic fire detection and alarms in accordance with legislative requirements and the Building Code of Australia
- Distribution board, allowing capacity for 10% growth or changes. Exact location to be determined. NB The current electrical supply may not be able to accommodate this facility.

It is anticipated that the mechanical works will include, but not limited to the following:

- 5 Numbers roof ventilators. The Contractor shall be responsible for any filter sealing of ventilators to undertake the Works of Asbestos removal.

It is anticipated that the hydraulic works will include, but not limited to the following:

- An external polypropylene water storage tank with a 27,500 Litre capacity to capture the roof water run off with an overflow to storm water. The facility should be able to pump the water for wash down use within the building.
- First Flush System – between roof down pipes and tank.
- 4 taps (garden type) within the facility that can utilise either mains water or water from the storage tank.
- Raised concrete plinth or stand for the water tank.
- Solar hot water panels connect to mains water supply for connection to showers within the amenities room
- 6 Numbers sumps connected to an external pit which can filtered and discharges directly to the street sewer on Barbour Road.
- Provide new water connection to the building to provide water for all required amenities

- Provide hydrant, hose reels, hand held extinguishers as required by BCA or Standard Australia.

E1.3.2 Approvals

Lodging and obtaining the Construction Certificate prior to works commencing and Occupation Certificate prior to hand over of the facility. The Contractor is required to obtain all necessary approvals, forms or certifications associated with these Certificates and incur all fees and payments. The Contractor can opt to utilise a private certifier or a Principal Certifying Authority through Wollondilly Shire Council.

E1.3.3 Construction Works

The Contractor will be required to construct the maintenance facility in accordance with the all necessary legislative requirements and the Principal's accepted final design. Unless expressly stated otherwise in the Contract, the Contractor must:

- a) Provide all materials, labour, subcontractors inspections, co-ordination necessary to completion the Contract;
- b) Protect the tenants, public and surrounding buildings including provisions of all fencing, storage, hoardings and signage to facilitate construction whilst maintaining tenant and public access on the Thirlmere site;
- c) Provision of all temporary services to allow safe construction;
- d) Provision of all temporary site accommodation and storage in conformance with applicable, awards, codes and standards;
- e) Provision of site security to the construction zone to exclude unauthorised access and provide protection to the tenants and public and;
- f) Obtain and maintain all certificates, licences, consents, permits and other approvals of any Authority required for the execution of the work and pay all fees relating to the same;
- g) Manage, control and co-ordinate the OH&S management for the construction works.

E2 DOCUMENTS

E2.1 CONTRACTORS SUBMISSIONS PRIOR TO COMMENCEMENT

The Contractor shall submit the following documents both in hard and soft copies to the Superintendent for review prior to commencement.

E2.1.1 Methodology

The Contractor shall prepare a detailed methodology. Including details of all plant, machinery, tools and equipment proposed to be used, construction techniques, procedures for the delivery of materials to and from site, co-ordination procedures with RTM, storage areas, sequence of construction and overall Works program.

The Contractor's methodology shall take into account any restrictions or conditions detailed in the Development Approval consent and detail how works will be carried out and access provided in an operational environment to be agreed. The later will need to be approved by RTM and StateRail.

The Contractor may have access and use of RTM's rail rail-mounted crane, subject to RTM's usage commitments and approval. The crane is a diesel-electric, self-powered, 60 tonne unit with a full range of slew, luff and raise capabilities.

The Contractor will be required to provide the necessary qualified crane operator or may opt to sub contract this task to RTM. A certificate for a comparable mobile (road) crane is anticipated to be adequate. Movement (on the railway tracks) of the crane would need to be supervised by the RTM shunter. The crane is old and somewhat fragile, so any operator will need to be carefully selected and have an appropriate level of mechanical sympathy. The operator (if provided by the contractor) would need to be given 2 to 4 hours training and familiarisation by RTM representatives.

The Contractor will be required to view maintenance logs and clearance certificates, before undertaking any works, to ensure the rail-mounted crane is in full operating order.

E2.1.2 Dilapidation Survey

The Contractor must, at the date of possession of the Site:

- Provide a complete dilapidation survey of all existing maintenance sheds in the construction path including roads, footpaths, kerbs, gutters, drains, utilities and services, before commencing work on site.
- The survey must clearly identify and record in writing and photographs, the state of the structures and services. Any existing damage must be recorded.

Two copies (one unbound) of each report shall be forwarded to the Superintendent.

The Superintendent will use the survey(s) and report(s), amongst other things, as a means of assessing the responsibility for damage and/or making good arising out of the performance of the work under the Contract during and at Completion of the Works.

E2.1.3 Site-Specific Safety Management Plan

The Contractor must prepare a detailed Site-specific Safety Management Plan (SSMP) which identify hazards associated with the works at the site, refer to the Site Hazard Identification Table in Part B Section B15, along with the hazardous control measures that will be implemented to ensure that people are adequately protected from risk of injury or illness and as a minimum should include the following; Statement of Responsibilities, OH&S Training, Incident Management, Site Safety Rules and Safe Work Method Statements.

E2.2 INFORMATION SUPPLIED BY THE PRINCIPAL

E2.2.1 Site Survey

A site survey in CAD format will be supplied to the Contractor shortly after engagement. Such information will include:

- locations of the tracks in general, (the tracks in the immediate area of the proposed maintenance shed location will be removed by RTM prior to construction works commencing).
- All services pits, invert levels, RLs
- Identification of surrounding street services and appropriate tee-offs.
- Details of existing retaining wall, ie, RLs, dimensions,

The Principal shall not be responsible for any interpretations, deductions or conclusions made by the Contractor from the information made available and the Contractor must accept full responsibility for any such interpretations, deductions or conclusions.

E2.1.2 Project Program

Provide a program in Gantt chart format prior to commencement of the work plus any training times of personnel to be employed on the Works, identification of key milestones detailing the proposed Works, completion and handover dates in accordance with the Contract.

Following are the current proposed scheduled timeframes for various milestones:

- | | |
|---------------------------------------|--------------------------|
| • D&C Contractor appointment | Early/mid September 2006 |
| • Design complete (incl. CC Approval) | Mid November 2006 |
| • Construction complete | Early March 2007 |

E2.1.3 Development Application (DA)

A draft determination for the Development Application (DA) is enclosed from Wollondilly Shire Council as Appendix E2. Final DA determination will be made available before the Tender closes.

The following documentation was lodged with the DA and is provided to Tenderers as separate documents as Appendix E3 available on a CD.

- Statement of Environmental Effects.
- Statement of Heritage Impact.

Both documents were prepared by Caldis Cook Group and dated December 2005.

E3 ADMINISTRATION

E3.1 SUPERVISION - PRELIMINARIES

The Contractor is responsible for:

- (a) the continuous and detailed mandatory inspections and supervision of the work under the Contract on site whilst Works are being undertaken;
- (b) The Contractor or any sub-trades engaged on the work must be registered or licensed to carry out the work under the Contract. The Contractor may be required to produce evidence of registration or licence prior to any commencement of the work under the Contract.
- (c) the co-ordination and control of the work under the Contract. The Contractor must program and direct all sub-contractors, Consultants and suppliers and ensure that:
 - (i) all orders are placed;
 - (ii) materials are removed;
 - (iii) resources are on Site, at the time required to avoid delay;
- (d) the timely ordering of all materials or plant and equipment for the work under the Contract;
- (e) all necessary work under the Contract, being work not specifically mentioned in the Contract documents, but which is necessary and/or inferred for the work under the Contract to achieve the desired scope and quality;
- (f) physically co-ordinating the detailed set out of the work under the Contract.
- (g) liaison with RTM and other tenants on site as required.

E3.2 MEETINGS

The Contractor must attend all Meetings as required by the Superintendent. It is anticipated that Site meetings will be held on a monthly basis when construction works commence or as required. Design meetings will generally be held fortnightly at 55 Market Street Sydney, unless specifically nominated.

Minutes of both the Design and Site Meetings shall be kept by the Superintendent and copies passed to attendees.

E3.3 INSPECTION

The Superintendent may make inspections on Site. These inspections may occur with short notice and the Contractor must provide a senior representative during such inspections. The Superintendent may be accompanied on all inspections by an expert adviser or others as he sees fit.

E4 SITE AND WORKS MANAGEMENT

E4.1 WORKING CLOSE TO OPERATIONAL TRACKS

- (a) The Contractor shall at all times during the period of construction take all necessary precautions to avoid any delay, obstruction or stoppage to RTM railway traffic. Should any avoidable delay, obstruction or stoppage occur, the Contractor will be held responsible for any costs incurred as a consequence.
- (b) The Contractor shall comply with the minimum clearances from the track centreline to be maintained for plant, equipment and structures, which are specified in Part D (D1.2 Definitions) of the Contract. It should be noted that the specified horizontal clearance applies to 300mm below the rail level.

E4.2 OHS REQUIREMENTS

The Contractor's employees and subcontractors must be inducted onto the Site by RTM before commencing Works. It will not be mandatory for Contractor's employees and subcontractors to hold a PO1 Track Safety Awareness Certificate as such, RTM will cover basic track safety awareness in their site induction process.

The Contractor will be required to host Tool Box meetings each morning before Works commence, at which RTM's Representative, Mr. Jim Martin, or other nominated individual, must be present. These Tool Box meetings will be used as a forum to discuss both RTM's and the Contractors proceedings for the day. The Contractor shall provide constant updates of site issues to the RTM nominated contact person, and shall maintain constant communication with this person regarding all project matters.

E4.3 SITE SECURITY

E4.3.1 Security Requirements

The Contractor is responsible for the security of the construction, site accommodation and storage areas, from the date of the commencement on site to the date of Practical Completion.

The Contractor must provide all security to prevent unauthorised access to the Site on a 24-hour basis at the Contractor's cost.

The Superintendent may direct the upgrading of security to the Site, if the measures put in place by the Contractor are not in its view, sufficient. This upgrading will be at the Contractor's cost.

The Superintendent may, at its discretion, direct that fencing and hoardings remain in place to secure areas of the site until Practical Completion of the Works.

E4.4 PROTECTION OF EXISTING INFRASTRUCTURE AND STRUCTURE

Works under this Contract shall proceed in a manner that will not damage or disturb the existing infrastructure or railway tracks. Infrastructure includes all track, stanchions, ballast, track drainage, signalling equipment and overhead wiring.

The Contractor must utilise construction techniques that avoid debris falling onto track and ballast. Any fouling of the ballast shall be rectified immediately by the Contractor.

Appropriate protection is to be installed by the Contractor where necessary to safeguard the existing infrastructure and tracks.

E4.5 SERVICES

E4.5.1 Existing Services

Service searches identifying the locations of existing services are to be arranged by the Contractor.

The Contractor shall locate the existing services by sonar or electronic means, and any other method necessary to locate the position of these existing services, and report his findings to the Superintendent before commencing works.

The Contractor must deal with any related existing services encountered, obstructed, or damaged in the course of performing the work under the Contract, as follows:

- (a) if the service is to be continued: repair, divert, relocate as required;
- (b) if the service is to be abandoned: cut and seal or disconnect, and make safe and/or remove - in accordance with the requirements of the Superintendent and the relevant statutory authorities; and
- (c) no mechanical excavation will be allowed within one (1) metre of the centre of existing services.

The Contractor must liaise with the appropriate statutory authorities and resolve all issues.

E4.5.2 Services During Works

The Contractor must make all his own arrangements for temporary services connections. These may include telephones, power requirements and water connections. The Contractor must make all payments for fees and charges for connection, use of facilities and any alterations and subsequent disconnection.

The Contractor shall arrange and pay all costs to the authorities responsible for existing services to re-determine the exact location of these services prior to commencing works.

The Contractor is responsible for the cost of dealing as above with existing services relating directly to its work, regardless of the circumstances of their discovery.

E4.6 ADJOINING PROPERTIES

E4.6.1 Delay Due to Dispute with Tenants

The Contractor shall not be entitled to any extension of time due to any dispute, delay or proceedings with existing occupants of the site or adjacent neighbours, owners or occupiers. The Contractor shall be responsible for notifying and liaising with the tenants of construction works on a regular basis.

E4.7 SITE CONTAMINATION

E4.7.1 General

The Contractor shall take all necessary measures to prevent further contamination of any part of the Site in general or surrounding areas.

Given the operational history of the site, it is possible that the soil may contain contaminants. The Contractor, for precautionary purposes, will assume that the soil is contaminated. Accordingly, StateRail has advised that the following requirements should be implemented by the Contractor during any excavation works:

- Appropriate environmental and Occupational Health and Safety controls should be implemented in accordance with legislative requirements.
- Excavated soils scheduled for off-site disposal should be temporarily stockpiled for sampling and classification by an Environmental Consultant to be provided by the Contractor. It is noted that this sampling could be performed in-situ (i.e prior to excavation) to avoid having to stockpile the material on site. Sampling and Classification must be performed in accordance with the DEC (June 2004) Environmental Guidelines for the Assessment, Classification and Management of Liquid and Non-Liquid Wastes.
- Should any soils be removed from site, waste tracking systems should be implemented for the transport and disposal, and EPA licensed haulage contractors may be required depending on the classification of the materials. Excavated soils must be disposed in accordance with their classification, at a licensed landfill.
- Any clean soil imported to the site for backfilling should be sampled and validated to ensure it is free of contaminants.

If during excavation works, the Contractor identifies any material which exhibits staining, odours or physical evidence of potential contamination, the Contractor shall immediately stop work, secure the work area and arrange an Environmental Consultant to undertake soil sampling and classification. The results of the soil sampling and classification shall be used to develop appropriate management controls, prior to continuing the works.

If management controls include the excavation and disposal of impacted soils, the procedures detailed above should be followed. In addition, validation sampling should be performed in the base of the resulting excavations to confirm adequate removal of the contaminated soils. The sampling should be performed in accordance with the NSW EPA Sampling Design Guidelines (1995), the NSW EPA Guidelines for the Site Auditor Scheme (2006) and the requirements of the National Environmental Protection Measure (NEPM, 1999).

E4.7.2 Disposal of Contaminants

The Contractor must properly dispose of solid, liquid and gaseous contaminants in accordance with all statutory and contractual requirements.

Protection of the Environment Operations Act 1997

The Contractor is responsible for all stormwater, dust control and runoff from the construction area including detention basins, gross pollutant traps (GPT), truck washes, bunding, screening and sedimentation control to maintain compliance with all EPA guidelines and Protection of the Environment Operations Act and in accordance with all the relevant authority's requirements.

The Contractor must not:

- (a) wash out machinery, concrete pumps and their attachments, and trucks used for the disposal on the public way;
- (b) allow any water collected from on-site washing down of trucks, concrete trucks, concrete pumps or their attachments, and trucks used for the disposal of spoil to be pumped, directed or allowed to flow into the street stormwater system and/or any creek, river or harbour; or
- (c) allow any seepage of water collected on the Site during the demolition to be pumped to the street stormwater system, and/or any creek, river or harbour, unless specific prior approval is given in writing by the relevant authority.

E4.8 TEMPORARY SUPPLY AND POWER LEADS

It is anticipated that the Contractor will tap into the supply of the Engine Shed and if required, suspend all leads above ground level, ensuring access by both persons and vehicles, including rail. Arrangements must be agreed with RTM in relation to payment for usage of power and the Contractor must maintain adequate supply to the Engine Shed at all times, unless otherwise agree by RTM"

E4.9 SITE CLEANLINESS

The Contractor must ensure the clean and orderly performance of the work under the Contract, including the regular removal of all rubbish, debris, surplus materials etc from the Site and the working areas.

The Contractor is also responsible for the appropriate disposal of all rubbish and other material removed from the Site. The Contractor must enclose rubbish in appropriate containers such as plastic garbage bins or large mobile bins, before removal.

E4.10 SLEEPERS

The Contractor will relocate and appropriately stack sleepers in the immediate area of the facility, to an area on the Site nominated by RTM. The Contractor will be required to remove and dispose of sleepers in poor condition, this will be at the sole discretion of RTM.

E5 ENVIRONMENTAL PROTECTION

The Contractor must comply with all Environmental Regulations, Codes and Standards. The Contractor must consider any project environmental aspects and impact for the works and implement strategies to mitigate or eliminate impact.

E5.1 STORAGE AND SITE ACCOMMODATION

The Contractor must store materials and equipment and locate site accommodation on the Site in the areas nominated by RTM to minimise hazards to persons, materials and equipment. The Contractor must keep storage areas and site accommodation neat and tidy. The Contractor must not use areas outside the Site for storage. It is anticipated that the Contractor will provide and install fencing, gates, etc to secure a nominated area within the Site.

It is anticipated that the Contractor's site accommodation and storage will be located in the area west of the turntable, approximately 20sqm., which could be created by moving the fence and gates separating the western side of the Locomotive area from the north car park.

E5.2 SITE AMENITIES

The Contractor will have access to the maintenance amenities facilities (for males), including two toilets, two showers and a hand basin which is located between the Engine Shed and Barbour Road. The Contractor will be required to arrange and pay for thorough cleaning of this facility on a weekly basis to supplement the cleaning regime already in place by RTM. Females will have access to the public toilets south of the main entrance. No additional cleaning will be required for the female public toilets.

E5.3 TRUCKING

The Contractor must convey materials, demolition rubble, soils, earth, sand, loose debris, and other loose materials to or from the Site in a manner that will prevent dropping of materials on streets. The Contractor must ensure that the wheels, tracks and body surfaces of all vehicles and plant leaving the Site are free of mud and that mud is not carried on to adjacent paved streets or other areas.

Where any excavated material is found to be contaminated, then the Contractor must obtain any licences necessary to transport and dispose of such material.

E5.4 DUST, NOISE AND VIBRATION

The Contractor must:

- (a) ensure that EPA's requirements are met in relation to dust control.
- (b) take all necessary steps to minimise noise resulting from the work under the Contract;
- (c) fit construction equipment with noise suppressors and use so that noise is minimised;

- (d) report all noisy activities to the tenants and Superintendent in advance.
- (e) take all practicable steps to minimise vibration resulting from Work under the Contract;

E6 COMPLETION

E6.1 PRACTICAL COMPLETION

In addition to the requirements set out in the Contract, the Contractor must ensure that the following requirements have been satisfied before Practical Completion:

- (a) The Contractor must submit three (3) hard copies and one (1) CAD disk of completed as built documentation, maintenance manuals and commissioning details to the Superintendent prior to the requesting issue of the Certificate of Practical Completion. Refer to Part D for details.
- (b) The Contractor's machinery and other major items of construction plant are removed from the site.
- (c) The Contractor must rectify or replace any damage to existing buildings, roads and footpaths or items stored by RTM on the Site.
- (d) Site area has been left clean, level to acceptable grade, reasonably compacted and free of demolition rubble.

E7 MATERIALS AND WORKMANSHIP

E7.1 MATERIALS, LABOUR AND PLANT

E7.1.1 Manufacturers' Recommendations

The Contractor must use manufactured items in the work under the Contract in accordance with current published recommendations of the manufacturer relevant to such use.

E7.1.2 Protection of Materials

The Contractor must provide at its own cost adequate storage and protection for materials so as to preserve their quality and fitness for the work under the Contract.

E7.1.3 Labour

Personnel must be skilled in their particular craft and workmen must do all work under the Contract in a thorough, faithful and workmanlike manner.

E7.2 STANDARDS

E7.2.1 Current Edition

An Australian Standard or other standard applicable to the work under the Contract must be the edition last published not later than one month prior to the closing date for tenders.

E7.3 TESTING

Independent testing authority: Any testing required to be done by an independent authority must be carried out by an authority registered with the National Association of Testing Authorities Australia (NATA).

The Contractor must prepare a detailed testing scope and program and advise the Superintendent's before proceeding with the tests.

E7.4 MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES

E7.4.1 Requirement

Some sections of the Contract include specific means, methods, techniques, sequences and procedures to be employed during construction. If the Contractor does not wish to follow these means, methods, techniques, sequences or procedure, it must notify the Superintendent and provide information on the alternative prior to carrying out the relevant work.

The Superintendent may in its absolute discretion adopt or reject any alternative proposed by the Contractor.

E7.4.2 Claims

The Contractor must not make any claims arising from any rejection. The Contractor must not unless otherwise agreed, make any claim for variation of cost or time as a result of the Contractor adopting an alternative work method.

E7.4.3 Information

When offering an alternative for approval, the Contractor must provide all available technical information, and any other relevant information requested by the Superintendent. If so requested, the Contractor must obtain and submit reports on relevant tests by an independent testing authority.

E7.4.4 Alterations

The Contractor must state whether the use of the alternative will require alteration to any other part of the Work under the Contract. If the alternative is adopted, the Contractor must carry out any such alteration without extra charge.

E7.5 JOINING UP

The Contractor must carry out the joining of new work, and any consequent cutting away, in a manner appropriate to the materials, and make good to match existing adjacent work in all respects.

E7.6 SAFETY OF PLANT AND EQUIPMENT INCORPORATED IN THE WORK

If required, the Contractor must supply a signed statement certifying that all plant and equipment designed by the Contractor for the work under the Contract, when used and maintained in accordance with the published instructions provided will comply with the requirements of the Occupational Health and Safety Act and all other applicable Law concerning health and safety. The Contractor must include with such statement a list of any special safety features provided in the plant and equipment as installed and operating.

APPENDIX E1

**CLADIS COOK GROUP
DRAWING NO. DA - 01**

APPENDIX E2

DRAFT DA DETERMINATION BY WOLLONDILLY SHIRE COUNCIL

APPENDIX E3

STATEMENT OF ENVIRONMENTAL EFFECTS HERITAGE IMPACT STATEMENT

NOTE: *Available on CD and shall be mailed to the Tenderers*