

## **PART E**

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### **TECHNICAL REQUIREMENTS**

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### **APPENDICES E1 - E7 (Reference documents)**

**APPENDIX E1** - Locality Plan

**APPENDIX E2** - Kiama Council Draft DA conditions

**APPENDIX E3** - Hazmat extract for 28 bong Bong Street

**APPENDIX E4** - Hazmat extract for 21 Barney Street

**APPENDIX E5** - Site Photographs

**APPENDIX E6** - Demolition Work Plan Forms

**APPENDIX E7** - Railway Services Search

## **E1 GENERAL**

### **E1.1 SCOPE**

#### **E1.1.1 General**

The Works shall comprise of all materials, labour, plant and equipment as specified herein, or as otherwise required for such specified or shown and its handover, completed to the satisfaction and a standard accepted by the Principal.

The Technical Requirements part of the RFT document provides details of the work to be carried out and the standard of work to be achieved by the Contractor.

The Contractor must undertake, complete and co-ordinate all areas of demolition, hazardous materials removal and site management required for the execution of the work under the Contract.

#### **E1.1.2 Location and Description of Site**

The first site is located on the corner of Manning and Bong Bong Streets (28 Bong Bong Street), Kiama located opposite the existing Kiama railway station. The Site is bound by Bong Bong Street to the north, Manning Street to the east, a medium density residential development to the south and the rail corridor to the west. See Locality Plan at Appendix E1.

The second site is located 21 Barney Street, Kiama adjacent to an automotive repairs garage. The Site is bound by residential properties along Manning Street to the east, Barney Street to the south and the rail corridor to the west. See Locality Plan at Appendix E1.

#### **E1.1.3 Scope of Works**

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

##### **E1.1.3.1 General**

- a) Disconnect and isolate all existing services from the buildings prior to commencing demolition. Existing services include but are not limited to low voltage lighting, telephones, electricity, water, drainage, sewer, earthing, light posts,. The Contractor is to ensure investigations are undertaken prior to disconnection to ensure that no other facilities will be affected. If facilities are affected services should be terminated to the Site Boundary;
- b) Provision of all temporary site accommodation and storage in conformance with applicable, awards, codes and standards;
- c) Installation of all temporary services to allow safe demolition and hazardous materials removal;
- d) Removal of all hazardous materials; (Refer Appendix E3 & E4 – Extract from GHD HAZMAT Investigation Report);
- e) Protection of the public and property including all scaffolding, fencing, hoardings and signage to facilitate staged demolition and hazardous materials removal whilst maintaining public access on surrounding streets and footpaths;

- f) Protection of the environment in accordance with the Contract and all Statutory requirements;
- g) Maintenance of hoarding ie: Temporary Fencing including for example removal of graffiti and posters; and
- h) Installation of sedimentation control works.

### E1.1.3.2 PART A

#### Demolition and Removal of Hazardous Materials of Industrial Buildings at 28 Bong Bong Street

The site is located on the corner of Manning and Bong Bong Streets, Kiama located opposite the existing Kiama railway station (refer Figure 1). The Site is bound by Bong Bong Street to the north, Manning Street to the east, a medium density residential development to the south and the rail corridor to the west.

#### E1.1.3.2.1 Structures

The five structures to be demolished are:

- The *Rentquip* building located on the north-western part of the site (figure 1)
- The *Kiama Camping* building located in the middle of the site (figure 2)
- A timber and metal structure to the west of the camping building (figure 3)
- The *Tanks of Gold* aquarium located on the southern boundary of the site (figure 4)
- A colourbond shed located north of the aquarium building (figure 5)



Figure 1: *Rentquip* building



Figure 2: *Kiama Camping* building



**Figure 3:** Timber and metal structure west of the  
*Kiama Camping building*



**Figure 4:** *Tanks of Gold Aquarium building*



**Figure 5:** A colourbond shed located north of the aquarium  
building

#### **E1.1.3.2.2 Scope of work**

The contractor is required to remove any REMAINING vegetation on the site (except trees).

The contractor is required to clean up the surrounds Of the Site Bounded by:

- Boundary to the West
- Property Boundary fence to the East
- Bong Bong Street Boundary fence to the North
- Property Boundary fence to the East

For each structure, the contractor is required to:

- Remove all debris inside and in immediate surrounds
- Remove all hazardous material (hazardous material report is attached in Appendix E3)
- Surface pick of asbestos fragments from the ground surface in the north western portion of the property (formerly occupied by the residential dwelling);
- Do NOT remove underground storage tanks (USTs).

- Terminate Hydraulics where required
- Terminate Power where required
- Remove all structural elements to ground level, including foundation This includes all trusses, girders, columns, brickwork, concrete slabs, footings, pre-cast concrete panels, steelwork and any remaining associated items.
- Cap all services

A hazardous material survey of the site resulted in asbestos being identified in four of the five buildings. The identified asbestos is to be managed in accordance with both the *NOHSC:2002 (2005) Code of Practice for the Safe Removal of Asbestos 2nd edition* and the NSW Workcover publication *Guide to Working with Asbestos*. An AS1 licensed contractor will be engaged to complete the works and all asbestos material will be disposed to an EPA approved landfill site.

Lead based paint was identified at the site. The lead-based paint is to be managed in accordance with Australian Standard (AS4361.2) titled *Guide to Lead Paint Management Part 2: Residential and Commercial Buildings*. Loose or flaking lead-based paints will be encapsulated in a non-lead based sealant to eliminate lead dust and lead based paint fragments from escaping.

### **E1.1.3.3 PART B**

#### **Demolition of Residential Buildings on the Site at 21 Barney Street**

Demolish the single storey building and all external structures. This includes all trusses, girders, columns, brickwork, concrete slabs, footings, pre-cast concrete panels, steelwork and any remaining associated items.

Remove all existing vegetation on the site (except trees)

Remove all hazardous material (hazardous material report is attached in Appendix E4). Remove all hazardous materials in accordance with both the *NOHSC:2002 (2005) Code of Practice for the Safe Removal of Asbestos 2nd edition*

Install new Chain Wire Fence and two sets of double gates.

## **E1.2 STATUTORY AND LEGISLATIVE REQUIREMENTS**

### **E1.2.1 Compliance with Regulations**

If approval by an Authority of the Contractor's work is dependent upon some indemnity or notice from the Principal, the Contractor must promptly notify the Principal in writing.

Unless expressly stated otherwise in the Contract, the Contractor must:

- obtain and maintain all certificates, licences, consents, permits and other approvals of any Authority required for the execution of the work under the Contract. Statutory authorities include but are not limited to Environmental Protection Authority, Sydney Water, Telstra, Optus or any other party; and
- pay all fees relating to the same.

### **E1.2.2 Registration/Licensing of Contractors**

Where an Act or Ordinance of the State of NSW requires that the Contractor or any sub-trades engaged on the work under the Contract to be registered or licensed to carry out the work under the Contract, the Contractor must produce evidence of registration or licence prior to any commencement of the work under the Contract.

All demolition work shall be undertaken and supervised by appropriately qualified and licensed personnel in accordance with WorkCover NSW requirements.

Notification of Demolition Work shall be submitted to WorkCover NSW by a licensed demolition contractor 7 days prior to commencement of demolition activity.

In particular, the Principal requires the Contractor and/or subcontractors to have the following licenses:

- Unrestricted Demolition Licence; and
- Friable Asbestos Removal Licence.

## **E1.3 STATUTORY APPROVAL DETAILS**

### **E1.3.1 Demolition and Hazardous Materials Removal Works Development Application (DA)**

The draft DA (Conditions of Consent) from Kiama Council are attached as **Appendix E2**

All Asbestos removal works to be carried out by licensed contractor and the safe removal of it in compliance with EPA requirements.

Notwithstanding the above, Kiama Council should be consulted in relation to any proposed changes to traffic management (if required) and protection of Council assets (footpaths, kerbs, gutters, drains, etc). All fees and permits required to undertake the Works must be paid by the Contractor.

## **E2 DOCUMENTS**

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### **E2.1 CONTRACTORS SUBMISSIONS PRIOR TO COMMENCEMENT**

The Contractor shall submit the following documents to the Superintendent for approval prior to commencement. Professional, qualified and suitably experienced practitioners shall prepare these documents.

#### **E2.1.1 Demolition Methodology**

Prior to commencement of the Work, the Contractor shall prepare a detailed Demolition Methodology. The demolition methodology shall include details of all plant, machinery, tools and equipment proposed to be used, demolition techniques, procedures for the removal of demolished materials from the site, disposal locations, sequence of demolition and overall Works program.

If required the Contractor's Demolition Methodology shall be certified and approved by a Chartered Professional Engineer (CPEng), as registered with the Institute of Engineers, Australia.

When preparing this Demolition Methodology, the Contractor shall take into account all safety and environmental issues associated with use of diesel, petrol or electrical powered tools and equipment.

The use of explosives is prohibited on this work.

#### **E2.1.2 Project Program**

Provide a program in Gantt Chart format prior to commencement of the work on site plus identification of Key milestones and interfaces and detailing the proposed Works scheduling and completion and handover dates in accordance with the Contract.

#### **E2.1.3 Waste Management Plan**

The Plan shall address the compliance with EPA guidelines for reduction of demolition and construction waste, detail all proposals for on-site and off-site recycling and disposal of demolition materials. Transport, treatment and disposal documentation of Hazardous Materials. Treatment of all site refuse including foodstuffs, packaging, handtowels and the like.

#### **E2.1.4 Site-Specific Safety Management Plan**

Prior to commencement of the Work, the Contractor must prepare a detailed Site-specific Safety Management Plan (SSMP) which must identify hazards associated with the works at the site, along with the hazardous control measures that will be implemented to ensure that people are adequately protected from risk of injury or illness and should include the following;

Statement of Responsibilities, OHS Training, Incident Management, Site Safety Rules, Safe Work Method Statements

Refer to Appendix D3 of Part D (Guide on preparation of OHS Management Plans) in the RFT.

#### **E2.1.5 Demolition Work Plan**

Prior to the commencement of the Work, the Contractor must complete a Demolition Work Plan, to meet RailCorp requirements. A template Demolition Work Plan is attached in Appendix E6 for reference.

### **E2.2 CONTRACT RECORDS**

**RECORDS:** The Contractor must mark up the most appropriate documents to show changes made during the demolition process.

The information given must include, the location of all services and appurtenances, referenced to permanent levels and structure.

**SUBMITTAL:** The Contractor must submit three (3) copies of completed record documents to the Superintendent prior to the requesting issue of the Certificate of Practical Completion.

### **E2.3 SITE INFORMATION SUPPLIED BY THE PRINCIPAL**

#### **E2.3.1 Site Conditions**

The information made available by the Principal does not completely show the existing site conditions. 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.

Where the Principal has not given possession of the entire Site, the Contractor may apply for approval, which will not be unreasonably withheld, to carry out further site investigation.

## **E3 ADMINISTRATION**

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### **E3.1 SUPERVISION - PRELIMINARIES**

#### **E3.1.1 Requirements**

The Contractor is responsible for:

- (a) the continuous and detailed inspection and supervision of the work under the Contract on site whilst Works are being undertaken;
- (b) 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;
- (c) the timely ordering of all materials or plant and equipment for the work under the Contract;
- (d) 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;
- (e) physically co-ordinating the detailed set-out of the work under the Contract.

### **E3.2 SITE MEETINGS**

The Contractor must attend all Site Meetings as required by the Superintendent. It is anticipated that Site meetings are to be held in agreement with both parties.

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

#### **E3.2.1 Contacts**

The Contractor must, at the first site meeting, submit the names and telephone numbers of all responsible persons who may need to be contacted after hours during the course of the work under the Contract.

### **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**

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### **E4.1 WORKING CLOSE TO TRACKS**

- (a) The Contractor shall at all times during the period of demolition take all necessary precautions to avoid any delay, obstruction or stoppage to 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.
- (c) Generally, on this site, a protection officer will not be required. The above statements are valid if access beyond the gated boundaries, closer to the tracks, is required.

### **E4.2 PROTECTION OF PERSONS AND PROPERTY**

#### **E4.2.1 Hoardings**

The Contractor must arrange for the supply, erection and removal of all hoardings at no cost to the Principal as follows.

The provision of temporary construction hoardings to comply with the relevant Principal's and WorkCover Authority's standards Code of Practice and AS/NZ1170-0, 1,2 and if timber framed to AS1720.

The Contractor must:

- (a) proactively assist the Superintendent in determining the locations and timing for placement of the hoarding, to provide reasonable clearance for the Contractor to demolish existing structures whilst maximising the space available for pedestrians and ensuring a high level of presentation of the Site;
- (b) maintain the hoarding in a clean and presentable condition;

### **E4.3 SITE SECURITY**

#### **E4.3.1 Security Requirements**

The Contractor is responsible for the security of the areas of the site required for the demolition and hazardous materials removal from the date of the Contract 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**

Demolition 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 demolition techniques that avoid debris falling onto track and ballast. Any fouling of the ballast shall be rectified immediately by the Contractor.

#### **E4.5 EXISTING SERVICES**

##### **E4.5.1 Generally**

Service searches identifying the locations of existing services are to be arranged by the Contractor. A Railway Service Search has been undertaken- Typically Services are: Low Voltage, High Voltage & Signals (these relate to the Track areas only)

The Contractor shall locate the existing services by sonar or electronic means (including dial before you dig), 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 Service Searches**

The Principal does not guarantee the accuracy of these service searches including the Railway Services Search (Appendix E7) and any errors found on the service searches will not entitle the Contractor to make a claim against the Principal.

##### **E4.5.3 Cost**

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.

**E4.5.4 Notification**

The Contractor must within two-(2) weeks of being granted possession of the site:

- (c) notify the Superintendent immediately upon the discovery of services or obstructions; and
- (d) inform the Superintendent of any statutory approvals required or permits that are required.

**E4.6 ADJOINING ROADS****E4.6.1 Delay Due to Dispute with Neighbours**

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 the neighbours of the demolition works.

**E4.7 SITE PARKING**

The Contractor must provide fencing, locked gates, signage and or security to prevent unauthorised access to and parking on the Site.

**E4.8 NOTIFICATION OF NEIGHBOURS**

The Contractor must provide the Superintendent regular written advice of its proposed activities in sufficient time to allow the Superintendent to advise, communicate and provide information to existing occupants and neighbours.

Works will be limited to work during the daylight hours

**Monday to Friday: 7.00am to 5.00pm**

**Saturday: 7.30am to 5.00pm**

**Sunday & Public Holidays: Site Closed**

**E4.9 TEMPORARY WORK****E4.9.1 Maintenance**

The Contractor must design, construct, install, alter, adapt and maintain temporary works as necessary and remove them progressively as the work under the Contract proceeds, unless otherwise specified or instructed by the Superintendent.

**E4.10 SERVICES DURING WORKS**

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

## **E4.11 HAZARDOUS MATERIALS AND OTHER INJURIOUS SUBSTANCES**

### **E4.11.1 General**

A number of the structures included in the Contract are known or suspected to contain asbestos and other hazardous materials. The Contractor shall remove all hazardous materials from each structure prior to its demolition. The Contractor shall take all necessary measures to prevent contamination of any part of the structure or Site in general or surrounding areas with asbestos or other hazardous materials that exist in the structures nominated for demolition.

### **E4.11.2 Assessment of Hazardous Materials**

A Hazardous Materials Survey prepared by GHD has been commissioned to provide information on hazardous materials contain within the structures to be demolished (Refer Appendix E3 and E4).

Prior to demolition of any structure the Contractor shall carry out his own assessment of hazardous materials associated with the nominated structures to be demolished and in the materials to be removed from site. This assessment shall be carried out in accordance with the requirements set out in the relevant guidelines and statutes governing the Works.

The Contractor is responsible for the management and cost of all hazardous material removal within the Site. There will be no right to claim extension of time or cost arising from the removal of hazardous materials.

### **E4.11.3 Precautions**

The Contractor must take proper precautions to keep hazardous materials and other injurious substances in places secured against access by unauthorised persons.

### **E4.11.4 Hazardous Materials and Asbestos**

If any loose fibrous or sheet materials which may contain asbestos, or any other hazardous materials, is found, (outside of that noted in the hazardous materials survey) the Contractor must:

- (a) not disturb the materials;
- (b) request an instruction from the Superintendent; and
- (d) ensure workmen are protected from exposure to the materials until its nature has been determined.

## **E4.12 METHODOLOGY**

The methodology employed for the demolition of structures shall be the responsibility of the Contractor and documented in accordance with this clause and clause E2.1.1. The adopted methodology shall be in accordance with AS 2601 and minimise disruption of the Site and its surroundings and shall ensure efficient recycling of materials generated by the demolition works.

The Contractor shall be responsible for developing suitable methodologies for removal of all structural steel, so as to prevent damage to surrounding areas.

The Contractor shall undertake the demolition work in accordance with the methodology unless prior written approval is obtained from the Superintendent.

#### **E4.12.1 Use of Explosives**

The use of explosives for demolition works is prohibited

#### **E4.12.2 Methodology Modifications**

The Contractor may request methodology modifications, to:

- (a) improve the proposed work under the Contract; or
- (b) make the work under the Contract shorter or easier.

#### **E4.12.3 Imposed Loads**

The Contractor at all times shall maintain the structures to be demolished and all of their components in a stable and safe condition in accordance with AS 2601 Subclause 2.5.4.

The Contractor shall ensure that imposed loads from equipment or storage of demolished materials do not exceed the safe load carrying capacity of the structures onto which these loads are imposed.

If required, calculations and written certification from an independent, suitably qualified and experienced structural engineer must be provided to verify the load carrying capacity of existing structures prior to commencement of Works.

### **E4.13 TRANSPORT**

The transport, delivery, removal and disposal of all demolition rubble, hazardous materials and any other materials and associated labour shall be carried out by the Contractor.

### **E4.14 PORTABLE LIGHTING AND POWER LEADS**

The Contractor must provide its own portable lights for the work under the Contract. The Contractor must suspend all leads above ground level.

The Contractor is responsible for its own electrical safety and must ensure that all leads, sockets, plugs and equipment are in good and safe working condition. The Contractor must:

- (a) test all electrical leads; and
- (b) tag all leads.

#### **E4.15 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.

## **E5 ENVIRONMENTAL PROTECTION**

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### **E5.1 GENERAL**

The Contractor must comply with all Environmental Regulations, Codes and Standards.  
The Contractor must prepare an Environmental Management Plan for the site.

### **E5.2 STORAGE ON SITE**

#### **E5.2.1 Generally**

The Contractor must store materials and equipment on Site in the areas dedicated by the Contractor to minimise hazards to persons, materials and equipment. The Contractor must keep storage areas neat and tidy.

The Contractor must not use areas outside the Site for storage.

### **E5.3 DISPOSAL OF CONTAMINANTS**

#### **E5.3.1 Generally**

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

#### **E5.3.2 Liquid Contaminants**

Subject to statutory and local requirements, the Contractor may dilute liquid contaminants with water to a level of quality acceptable before discharge in the sewer system. The Contractor must have the appropriate trade waste license. If disposal in this manner is not permitted or the Contractor does not have the appropriate trade waste license or the particular material is not approved for disposal in this manner, the Contractor must collect and store the material in approved vessels and dispose of it at an approved licensed location.

#### **E5.3.3 Protection of the Environment Operations Act 1997**

The Contractor is responsible for all stormwater, dust control and runoff from the demolition areas 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 Act and in accordance with all the relevant authority's requirements.

The Contractor must clearly identify strategies, plans and testing details within the Water and Sediment Control Plan to be submitted prior to commencement of work on the Site.

The Contractor must not:

- (a) wash out machinery, and trucks used for the disposal on the public way;
- (b) allow any water collected from on-Site washing down of demolition trucks, 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, and/or any creek, river or harbour, unless specific prior approval is given in writing by the relevant authority.

## **E5.4 DISPOSAL OF REFUSE**

### **E5.4.1 Requirements**

The Contractor must entirely at its own cost, remove from the Site at regular intervals but not less than weekly, refuse (Including food scraps) resulting from work under the Contract including any work performed during the Defects Liability Period. The Contractor must handle refuse in a manner so as to confine the materials completely and prevent dust and odour emissions.

## **E5.5 TRUCKING**

### **E5.5.1 Requirement**

The Contractor must convey hazardous 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 roads. 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 the Road or the Highway.

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

## **E5.6 DUST, NOISE AND VIBRATION**

### **E5.6.1 Requirement**

The Contractor must comply with all statutory environmental requirements relating to the works to be carried out

### **E5.6.2 Dust Control**

The Contractor must ensure that EPA's requirements are met. It is expected that the EPA will require that the ground level concentrations do not exceed the EPA's impact assessment criteria at the nearest sensitive receptor for a TSP of 90mg/m<sup>3</sup> (annual average) and PM<sub>10</sub> of 50mg/m<sup>3</sup> (24 hour average) and 30mg/m<sup>3</sup> (annual average).

### **E5.6.3 Noise Control**

The Contractor must:

- (a) take all necessary steps to minimise noise resulting from the work under the Contract;
- (b) fit all construction equipment with noise suppressors and use so that noise is minimised;
- (c) not use loud hailers, sirens; and
- (d) report all noisy activities to the Superintendent in advance.

**E5.6.4 Acoustic Testing**

Not required for this Project

**E5.6.5 Vibration Control**

Not required for this Project

## **E6 COMPLETION**

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### **E6.1 PRACTICAL COMPLETION**

#### **E6.1.1 Requirements**

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) All clearance certificates are provided for removal of hazardous materials including transport and disposal details.
- (b) Evidence is provided that all buildings and structures have been removed.
- (c) The Contractor's machinery and other major items of demolition plant are removed from the area.
- (d) Evidence of conformance to the Waste Management Plan.
- (e) Evidence is provided where services have been disconnected by inserting a pole and flag in the location of the service. Services locations are to be clearly marked on a plan and issued to the superintendent.
- (e) Site area has been left clean, level to acceptable grade, reasonably compacted and free of demolition rubble.
- (f) Access road adjacent to the rail corridor has been made good (in the condition that it was presented before this work had commenced).

### **E6.2 CLEANING UP**

#### **E6.2.1 Progressive Cleaning**

The Contractor must keep the Works clean and tidy including any work performed during the Defects Liability Period. Any damage to or marking of any parts of the Work under the Contract by the Contractor must be immediately rectified and left clean at the Contractor's expense.

#### **E6.2.2 Failure to Comply**

If the Contractor fails to comply with any obligation imposed on him by this clause the Principal may, after the Superintendent provides the Contractor with a written notice, have the work of rectification, cleaning or tidying up carried out by other persons and the cost incurred may be deducted from the monies otherwise due to the Contractor. If those monies are insufficient, those costs may be recovered by the Principal as a debt due to the Principal by the Contractor.

### **E6.3 RECTIFICATION OF ROADS AND FOOTPATHS**

The Contractor must rectify any and all damage to all roads and footpaths affected by the work under the Contract.

## **E7 MATERIALS AND WORKMANSHIP**

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### **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 the course of work. 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.

#### **E7.4.5 Contractor's Property**

Unless otherwise specified and subject to the provisions of the General Conditions of the Contract and the Superintendent's instructions, the Contractor must remove from the Site materials, plant, equipment or other things salvaged from the Site.

Salvaged materials are not to be sold on the site.

### **E7.5 SAFETY OF PLANT AND EQUIPMENT INCORPORATED IN THE WORK**

#### **E7.5.1 Requirement**

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.

**NOTE:** All the following Appendices E1 to E7 are to be used as reference documents only.

## APPENDIX E1

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### LOCALITY PLAN

(Note: Separate pdf file – 2 pages)

## APPENDIX E2

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### KIAMA COUNCIL DRAFT DA CONDITIONS

(**Note:** Separate pdf file – 5 pages)

**APPENDIX E3**

**EXTRACT OF HAZMAT REPORT  
28 BONG BONG STREET**

(**Note:** Separate pdf file – 24 pages)

**APPENDIX E4**  
**EXTRACT OF HAZMAT REPORT**  
**21 BARNEY STREET**

(**Note:** Separate pdf file – 1 page)

**APPENDIX E5**  
**SITE PHOTOGRAPHS**

(**Note:** Separate pdf file – 1 page)

**APPENDIX E6**  
**DEMOLITION WORK PLAN**

(**Note:** Separate pdf file – 6 pages)

## APPENDIX E7

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### RAILWAY SERVICES SEARCH

(Note: Separate pdf file – 2 pages)