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<th>YARRAMAN STP EFFLUENT IRRIGATION AREA EXPANSION</th>
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1. Preliminaries

1.1 Scope of Work

This document covers the Technical Specification for the works associated with the Yarraman STP Effluent Irrigation Area Expansion. The extent of work under this contract is limited to:

- supply and installation of new underground irrigation pipework, threaded risers and nozzles,
- modifications to existing irrigation pipework,
- modification to irrigation controls and operational sequencing, and
- supply of spare nozzles.

The principal items of work under the Contract include but are not limited to the following:

- Provision of a construction program.
- Provision of a Quality Assurance Plan/Project Quality Plan.
- Provision of a Workplace Health and Safety Plan
- Provision of an Environmental Management Plan.
- Implementation of all the above plans.
- Provision of site facilities
- Construction of new effluent irrigation pipelines
- Connection of new irrigation works to the existing Yarraman STP Effluent Irrigation Area pipework
- Testing and Commissioning of new pipework
- Modification to the PLC programming and any modification to electrical wiring for the altered operational sequencing required, and
- Restoration and clean up.

1.2 Construction Program

The Construction Program shall be developed and shall include the following:

- The dates by which or the times within which the various parts of the Works are to be executed;
- In discreet sections of the program: major project milestones; design completion; and construction activities; and
- Final clean up by the Contractor.

1.3 Site Meetings

The Contractor shall provide for and attend meetings between the Contractor, appropriate Sub Contractors and the Council’s Representative for the duration of the Contract. Meeting frequency shall be weekly or as determined by the Council’s Representative.

At the first meeting the Contractor shall submit to the Council’s Representative the names and telephone numbers of the Contractor’s Representative and all responsible persons who may be contacted after hours during the course of the Contract.
1.4 Quality Assurance

1.4.1 Requirement

The Contractor shall submit to the Council’s Representative a copy of the following documents within 10 days of the award of the Contract:

- The Project Quality Plan.

As a minimum, the Project Quality Plan shall contain the following information:-

- A Project Organisation Chart or list of nominated Project Personnel showing their positions, lines of communication and details of the responsibilities of the positions.
- Inspection and Test Plans for the various phases during construction as applicable to the project, to be submitted at least 7 days prior to commencement of relevant activity.
- A Register of all intended Quality Records to be used on the project, together with proformas.

1.4.2 Subcontracted Work

The Contractor shall ensure that subcontracted works and procured supplies are subject to appropriate quality assurance standards, when incorporated into the works in order to comply with the requirements of this Contract.

1.4.3 Quality Records

The Contractor’s quality system shall include sufficient quality records to provide objective evidence that the requirements of the Contract are met. This shall include Subcontractors and Suppliers records relevant to this Contract.

The Contractor shall, when requested by the Council’s Representative, provide access to all quality records relevant to the Contractor’s quality system under this Contract.

1.4.4 Certifications

To Accompany Each Payment Claim

Each Payment Claim shall be accompanied by a Conformance Report from the Contractor in respect of the works completed to the date of the claim and the subject of the claim, certifying that the works as constructed are in full accordance with the Contract requirements.

At Practical Completion

Prior to the Date for Practical Completion, the Contractor shall submit a Conformance Report certifying that the works have been constructed in accordance with the specification and drawings or approved revisions there-to.

1.5 Work Health and Safety Act

The Contractor shall comply with and ensure that its employees, subcontractors and their employees comply with all provisions of the Work Health and Safety Act (the “Act”).

The Contractor shall be the Principal Contractor and shall assume all responsibilities of the Principal Contractor as defined by the Act in respect of the Site:

- from the date of the Contractor assuming Possession of Site;
- until the earliest of:
– Practical Completion, unless otherwise specified under the Contract;
– Termination of the Contract; or
– Notice from the Council’s Representative revoking appointment.

The Council will make notification and payment of fee for the Building and Construction Industry Notification and Payment Form (“QLLeave” Form).

The Contractor shall:

• Be provided with evidence of payment by Council of the fee associated with the “QLLeave” Form;
• pay all other penalties, costs and other monetary sums;
• indemnify the Principal and agree to keep the Principal always indemnified against all costs, expenses, fines, losses, or damages, which the Principal may become liable to suffer or incur in respect of or arising directly or indirectly out of the failure by the Contractor to comply with its obligations pursuant to this clause, or required of it under the current Work Health and Safety Act and current Building and Construction Industry (Portable Long Service Leave) Act; and
• effect all insurances relating to workplace health and safety as required under the General Conditions of Contract.

Evidence of insurance coverage shall be forwarded to the Council’s Representative prior to commencement of works.

The Contractor shall:

• prepare a “workplace health and safety plan” (“Plan”) as required by the Work Health and Safety Act and defined under the accompanying regulations; and
• submit the Plan to the Council’s Representative:
  – within 10 days of commencement of contract; and
  – prior to taking Possession of Site.

The Council’s Representative may at any time request amendment of the Plan. The Contractor shall forthwith amend the Plan in accordance with the Council’s Representative’s request or provide written justification as to why the Plan should not be amended.

1.6 Environmental Protection Act

The Contractor shall comply with the Environmental Protection Act 1994 and the Environmental Protection Regulation 2008. Compliance includes, but is not limited to:

• The Contractor shall prepare and submit to the Council’s Representative within 10 days of the Letter of Acceptance, an Environmental Management Plan (EMP) to cover all site construction works.

The EMP shall be the Contractor’s plan of management to ensure all works undertaken by the Contractor (including all Subcontractors) shall have minimal impact on the environment and shall be in accordance with all relevant Australian Standards, State Government Legislation, Commonwealth Legislation and Local Government Regulations.

The EMP shall:

• Be a practical and achievable plan.
• Detail each environmental issue and impact which is to be addressed.
• Include all control measures which the Contractor will undertake and any issues which the Contractor will address during the construction process (including any required pre or post construction activity).

• Detail who is responsible for ensuring the control measures are undertaken, the verification of such actions and a reporting process.

• Provide a trigger for undertaking an action and, where possible, timing of each action.

• Detail procedures for the monitoring of the EMP by the Contractor.

• Detail a system for registration and action of environmental complaints.

• Comply with all the relevant legislation.

Should the Contractor wish to commence any construction operation prior to completion of the final EMP, sections of the EMP relevant to that construction operation may be submitted at least 14 days prior to the planned commencement of that construction operation.

A hold point shall occur and no site construction works shall proceed until the complete EMP or a section of the EMP relevant to a particular construction operation has been submitted and approval to proceed has been received from the Council’s Representative.

The Contractor shall be solely responsible for the full and complete implementation of the EMP. The Contractor shall pay all penalties, costs and expenses which may be incurred in respect of offences committed or alleged to be committed under the provision of the Environmental Protection Legislation.

The EMP shall comply fully with guidelines produced by the Environmental Protection Agency and shall include at least the following issues:

• Hours of work.

• Construction noise.

• Dust.

• Access.

• Storage of fuel and other hazardous goods.

• Fuelling and maintenance of vehicles and equipment.

• Disposal of waste (fuel, oil, chemicals, paints and sewage).

• Surface water runoff.

• Sedimentation and erosion control.

• Contaminated water.

• Flora and fauna.

• Baseline assessment of, and prevention of land contamination.

• Cultural heritage.

• Waste Management.

• Handling and Reporting Environmental Incidents.

The Contractor shall comply, and make sure that subcontractors comply, with the provisions of this Clause.
The Contractor shall remove from the site refuse (including food scraps and the like) resulting from work under the Contract. He shall handle refuse in a manner so as to confine the material completely and prevent dust emission.

The Contractor shall convey soils, earth, sand, loose debris, and the like loose materials to or from the site in a manner that will prevent dropping of materials on streets. He shall 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. The Contractor shall pay all costs to remove mud from roads as may be required to satisfy Council.

1.7 Storage on Site

The Contractor shall store materials and equipment on site so as to prevent damage to the site and minimise hazards to persons, materials and equipment. He shall keep storage areas neat and tidy. The Contractor shall pay any fees necessary to establish and maintain storage areas. Storage areas shall be approved by Council.

1.8 Site Establishment

The Contractor shall provide statutory and necessary amenities and sanitary facilities for workers and other persons lawfully on the site, and remove them on completion of Works. The location of establishment of the Contractor’s site facilities shall be to the approval of the Council’s Representative.

The Contractor shall make all arrangements and pay all charges in connection therewith, for any temporary services that may be required for the execution of all works under this contract.

1.9 Access to Site

The site is the Yarraman Sewerage Treatment Plant (STP) Effluent Irrigation Area.

The Contractor will be appointed as the Principal Contractor for the works and as such shall comply with all requirements of a Principal Contractor. The Contractor shall ensure that all areas of work are fenced or barricaded off from the public at all times. The Contractor shall stage their works to ensure that this can be achieved.

2. Materials

New materials and new components shall be used which are free from defects and suitable for the purpose, which comply with the relevant Australian Standards and the Building Code of Australia.

The following materials (or their equivalents) are to be used:

- 63mm irrigation pipeline-63 SDR13.6 PN12.5 PE100
- Spray Nozzles-Nelson R2000 Windfighter with Gold WF18 plate attachment and 50psi pressure regulator
- 1.2m long PE threaded riser (minimum ¾ inch diameter) to support the spray nozzle

3. Existing Services

During the initial site visit with Council’s Representative obtain information on the existing irrigation infrastructure by:
• Visual inspection,

Where services cannot be identified by the above means, engage a service locator to locate services that may be affected by the works.

4. **Excavation**

4.1 **General**

Keep the extent of clearing and excavation to the minimum practicable to allow efficient construction of the Works.

Prevent damage to trees that are not to be removed.

Stockpile topsoil separate from other excavated material and use the topsoil to make good the surface

4.2 **Excavation in Root Zones**

Ensure that no undue damage is caused to a tree root system.

Cleanly cut all roots ≤60 mm diameter encountered during excavation.

4.3 **Surplus Excavated Material**

Remove and dispose of surplus excavated material upon completion of work on a location on the site approved by Council's Representative.

5. **Pipework**

5.1 **General**

The pipework is to comply with AS/NZS3500 and the Plumbing Code of Australia and is to be undertaken in accordance with Fair Trading's requirements.

5.2 **Diameter**

The pipework and fittings are to have a minimum internal diameter of 50mm with minimum pressure rating of Class 12 (120m). The upstands supporting the nozzles are to match existing upstands.

5.3 **Cover**

Cover to the pipework as follows:

• Minimum 450mm

6. **Restoration**

6.1 **General**

Restore as near as practicable to their pre-existing condition, all surfaces disturbed, destroyed, removed or damaged during installation of pipework. Returfing of disturbed areas is not required.
6.2 **Timing of Restoration**

Undertake restoration within five calendar days after completion of the pipework installation.