



Statement No.

**MINISTER FOR THE ENVIRONMENT;
LABOUR RELATIONS**

000541

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(PURSUANT TO THE PROVISIONS OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

**MUNSTER PUMP STATION NO. 3 AND BIBRA LAKE MAIN SEWER EXTENSION,
MUNSTER, CITY OF COCKBURN**

Proposal: The construction and operation of:

- a gravity feed sewer main being an extension of the existing Bibra Lake Main Sewer from a point immediately upstream of the existing sewer pump station at Mayor Road (Munster Pump Station No. 2) to Munster Pump Station No. 3; and
- Munster Pump Station No. 3, a sewage pump station, on the west side of Lake Coogee, Munster;

as documented in schedule 1 of this statement.

Proponent: Water Corporation

Proponent Address: 629 Newcastle Street, Leederville WA 6007

Assessment Number: 1237

Report of the Environmental Protection Authority: Bulletin 963

The proposal to which the above report of the Environmental Protection Authority relates may be implemented subject to the following conditions and procedures:

Procedures

1 Implementation

- 1-1 Subject to these conditions and procedures, the proponent shall implement the proposal as documented in schedule 1 of this statement.
- 1-2 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment determines, on advice of the Environmental Protection Authority, is substantial, the proponent shall refer the matter to the Environmental Protection Authority.
- 1-3 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment determines, on advice of the Environmental Protection Authority, is not substantial, those changes may be effected.

Published on

- 4 APR 2000

2 Proponent Commitments

- 2-1 The proponent shall implement the consolidated environmental management commitments documented in schedule 2 of this statement.
- 2-2 The proponent shall implement subsequent environmental management commitments which the proponent makes as part of the fulfilment of conditions and procedures in this statement.

3 Proponent

- 3-1 The proponent for the time being nominated by the Minister for the Environment under section 38(6) or (7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal until such time as the Minister for the Environment has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person in respect of the proposal.
- 3-2 Any request for the exercise of that power of the Minister referred to in condition 3-1 shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the proposal in accordance with the conditions and procedures set out in the statement.
- 3-3 The proponent shall notify the Department of Environmental Protection of any change of proponent contact name and address within 30 days of such change.

4 Commencement

- 4-1 The proponent shall provide evidence to the Minister for the Environment within five years of the date of this statement that the proposal has been substantially commenced.
- 4-2 Where the proposal has not been substantially commenced within five years of the date of this statement, the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister for the Environment will determine any question as to whether the proposal has been substantially commenced.
- 4-3 The proponent shall make application to the Minister for the Environment for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement at least six months prior to the expiration of the five year period referred to in conditions 4-1 and 4-2.
- 4-4 Where the proponent demonstrates to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority that the environmental parameters of the proposal have not changed significantly, then the Minister may grant an extension not exceeding five years for the substantial commencement of the proposal.

5 Compliance Auditing

- 5-1 The proponent shall submit periodic Compliance Reports, in accordance with an audit program prepared in consultation between the proponent and the Department of Environmental Protection.
- 5-2 Unless otherwise specified, the Chief Executive Officer of the Department of Environmental Protection is responsible for assessing compliance with the conditions, procedures and commitments contained in this statement and for issuing formal, written advice that the requirements have been met.
- 5-3 Where compliance with any condition, procedure or commitment is in dispute, the matter will be determined by the Minister for the Environment.

Environmental conditions

6 Performance Review

- 6-1 Each six years following the commencement of construction, the proponent shall submit a Performance Review to the Department of Environmental Protection:
- to document the outcomes, beneficial or otherwise;
 - to review the success of goals, objectives and targets; and
 - to evaluate the environmental performance over the six years;

relevant to the following:

- 1 environmental objectives reported on in Environmental Protection Authority Bulletin 963;
- 2 proponent's consolidated environmental management commitments documented in schedule 2 of this statement and those arising from the fulfilment of conditions and procedures in this statement;
- 3 environmental management system environmental performance targets;
- 4 environmental management programs and plans; and/or
- 5 environmental performance indicators;

to the requirements of the Environmental Protection Authority on advice of the Department of Environmental Protection.

Note: The Environmental Protection Authority may recommend changes and actions to the Minister for the Environment following consideration of the Performance Review.

7 Decommissioning and Rehabilitation Management Plan

7-1 At least six months prior to decommissioning, the proponent shall prepare a Decommissioning and Rehabilitation Management Plan to the requirements of the Environmental Protection Authority on advice of the Department of Environmental Protection.

This Plan shall address:

- 1 removal or, if appropriate, retention of plant and infrastructure;
- 2 final rehabilitation of all disturbed areas to a standard suitable for agreed new land uses; and
- 3 identification of contaminated areas, including provision of evidence of notification to relevant statutory authorities.

7-2 The proponent shall implement the Decommissioning and Rehabilitation Management Plan required by condition 7-1 until such time as the Minister for the Environment determines that decommissioning and rehabilitation are complete.

CELIA EDWARDES (Mrs) MLA
MINISTER FOR THE ENVIRONMENT

- 4 APR 2000

Schedule 1

The Proposal (1237)

This proposal is to construct and operate:

- a gravity feed sewer main being an extension of the existing Bibra Lake Main Sewer from a point immediately upstream of the existing sewer pump station at Mayor Road (Munster Pump Station No. 2) to Munster Pump Station No. 3, as shown in figures 1, 3, 4 and 5 of this schedule; and
- Munster Pump Station No. 3, a sewage pump station, on the west side of Lake Coogee, Munster, as shown in figures 1 and 2 of this schedule.

The key characteristics of the proposal are described in Table 1 below.

Table 1 Key Characteristics of the Proposal

Item	Feature	Characteristic
Pump station	Location	Munster Pump Station No. 3 located within Water Corporation land to the west of Lake Coogee (Lot Number 20 Certificate of Title 2120/283) and contained within the Woodman Point Wastewater Treatment Plant Odour Buffer Zone, as shown in Figure 1.
	Depth	Approximately 20 metres below natural ground level.
	Construction - groundwater removal	A maximum of 3 000 cubic metres of groundwater may be displaced, subject to compliance with commitment 2.
	Pumping capacity	4 600 litres per second.
	Emergency overflow	No emergency overflow basins are proposed at Munster Pump Station No. 3.
Gravity sewer main	Location	Generally west-south west connecting into the Bibra Lake main sewer immediately upstream of the existing Munster Pump Station No. 2 on Mayor Road. Across Lot 505 and through Lot P2 to Lot 703. Across wetlands adjacent to the existing pressure mains to the north of Lake Coogee before turning generally south-south west approximately parallel to Lake Coogee to the new Munster Pump Station No. 3 site, as shown in Figure 1.
	Maximum flow capacity	9 200 litres per second (ultimate capacity)
	Total length	Approximately 1 600 metres
	Diameter	Approximately 2.25 metres internal diameter and 2.55 metres external diameter
	Maximum height of sewer across wetland	4.8 metres above wetland ground surface to the top of the handrails of the dual-use path located over the structure.

	Length of exposed sewer (wetland crossing)	Approximately 155 metres
Pump station and sewer main, as above	Odour control	All access points will be sealed with manhole covers which will be bolted down to withstand a 9 metre head of water. There will be no vents.
	No open storage	The proposal does not include open storage of sewage.

Figures (attached)

- Figure 1 Location of Proposed Works
- Figure 2 Conceptual Pump Station Arrangement
- Figure 3 Temporary Construction Causeway
- Figure 4 Pipe Bridge Across Wetland Conceptual Construction Method
- Figure 5 Location of Trench at Western End of Wetland Crossing (2 plans)

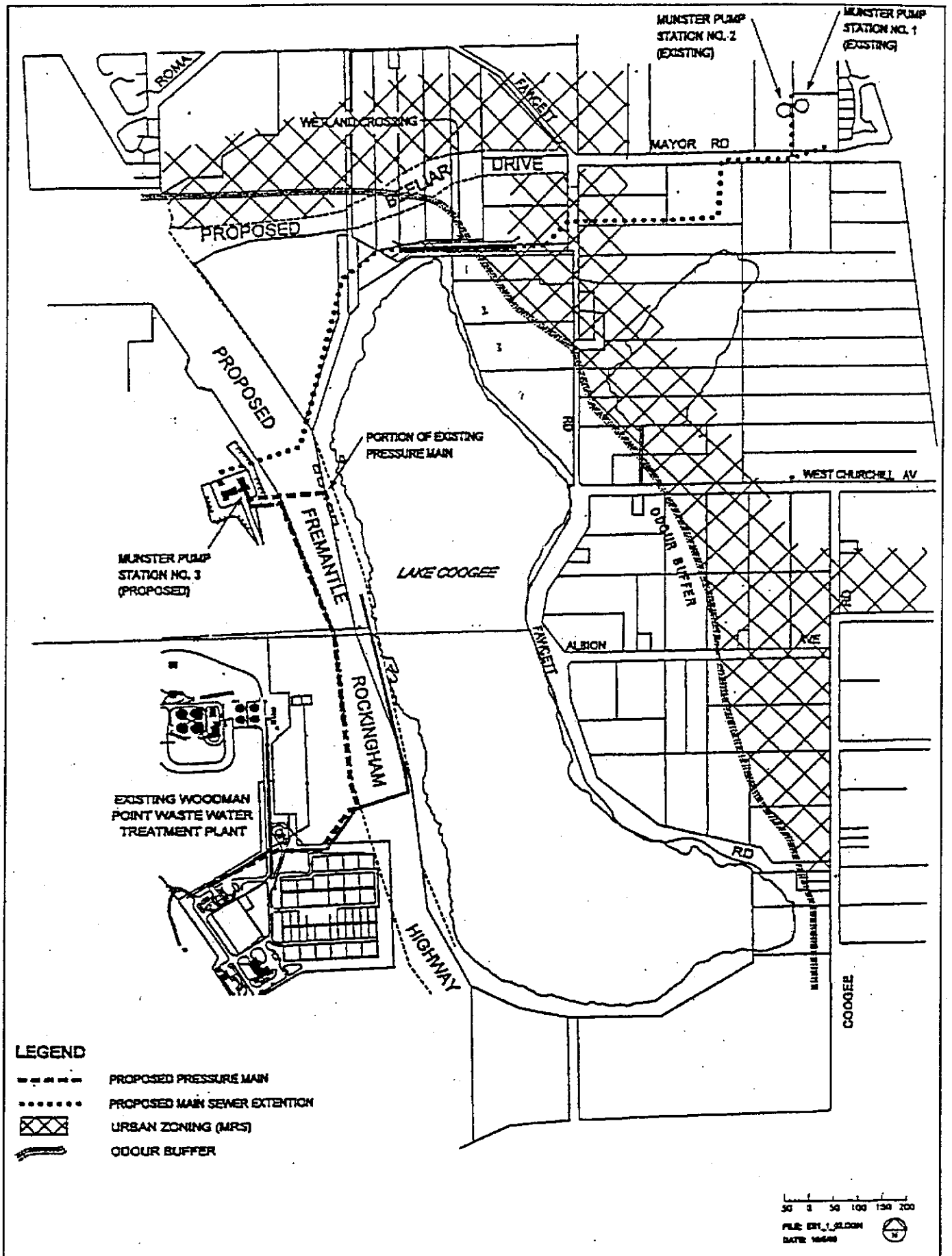


Figure 1. Location of proposed works (Source: Woodman Alliance).

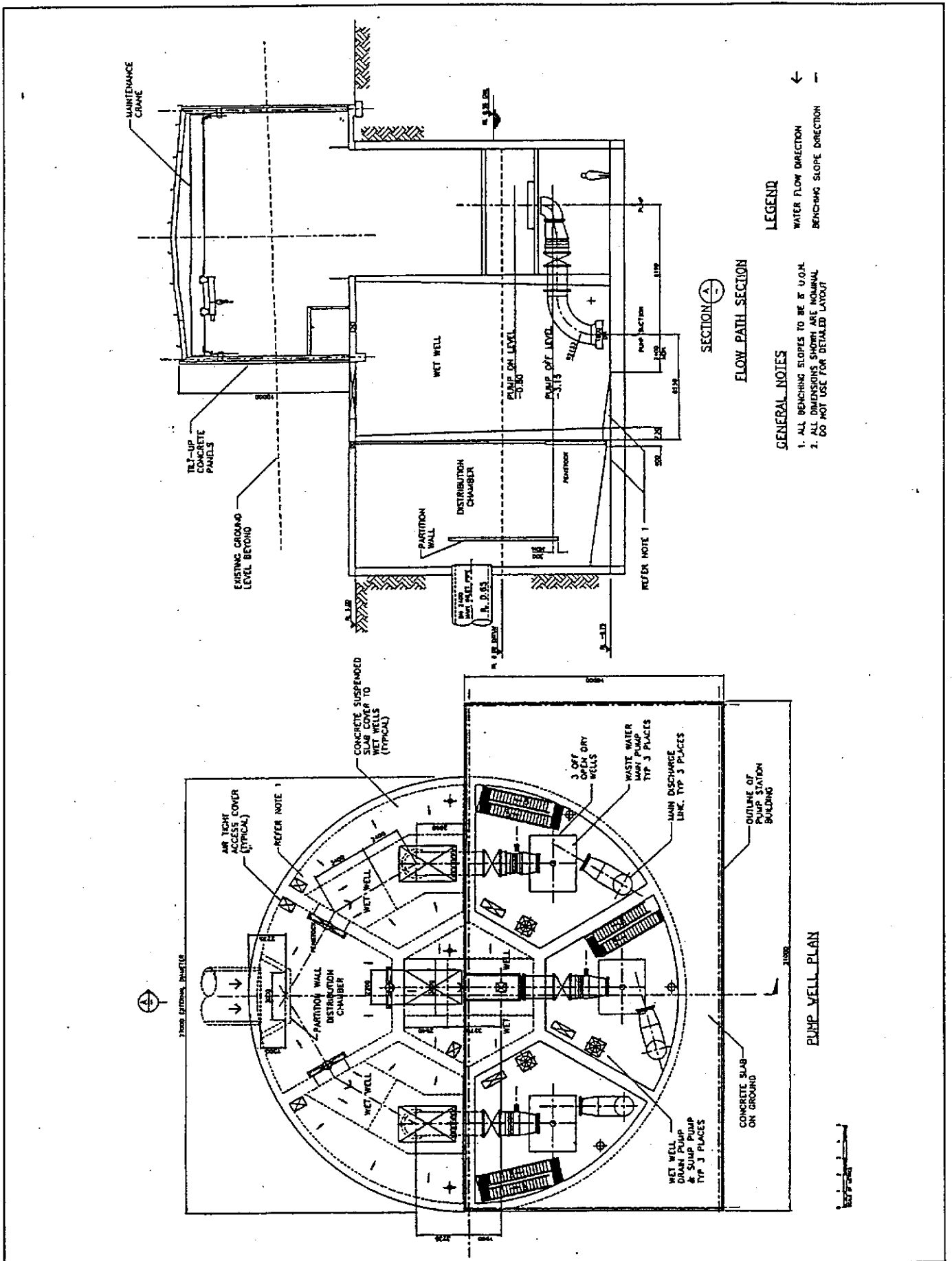


Figure 2. Conceptual pump station general arrangement (Source: Woodman Alliance).

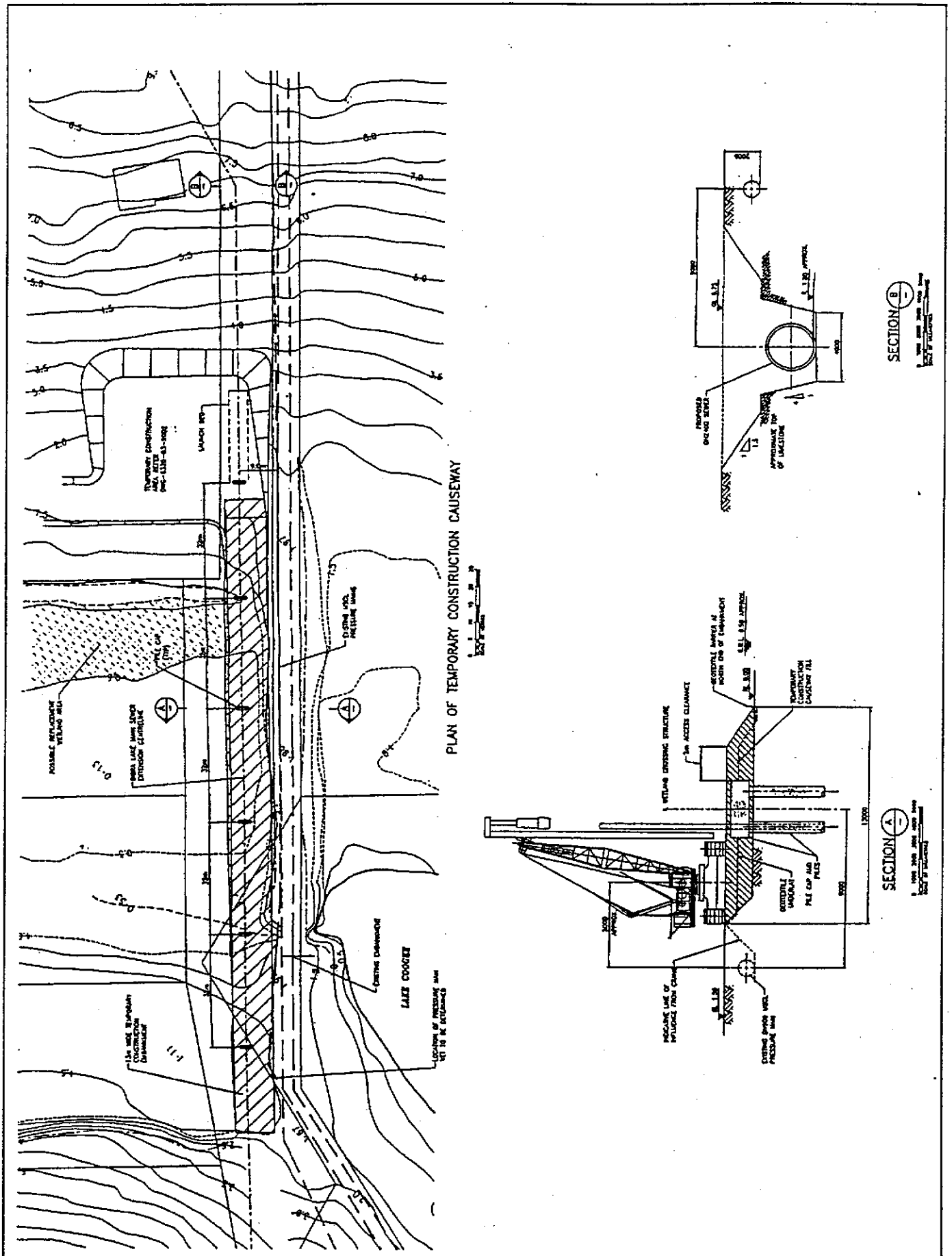


Figure 3. Wetland crossing structure temporary construction causeway (Source: Woodman Alliance).

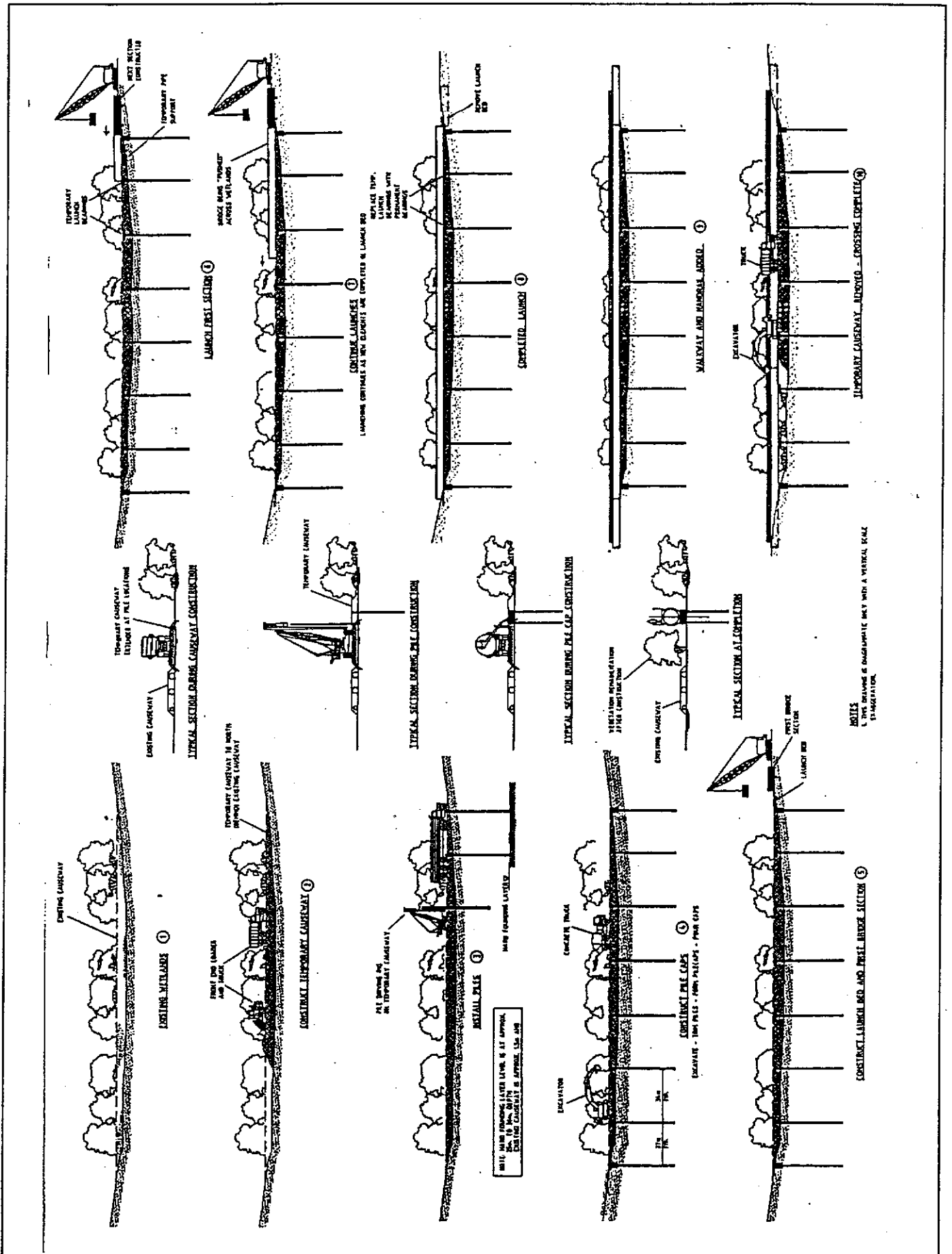


Figure 4. Pipe bridge across wetland conceptual construction method (Source: Woodman Alliance).

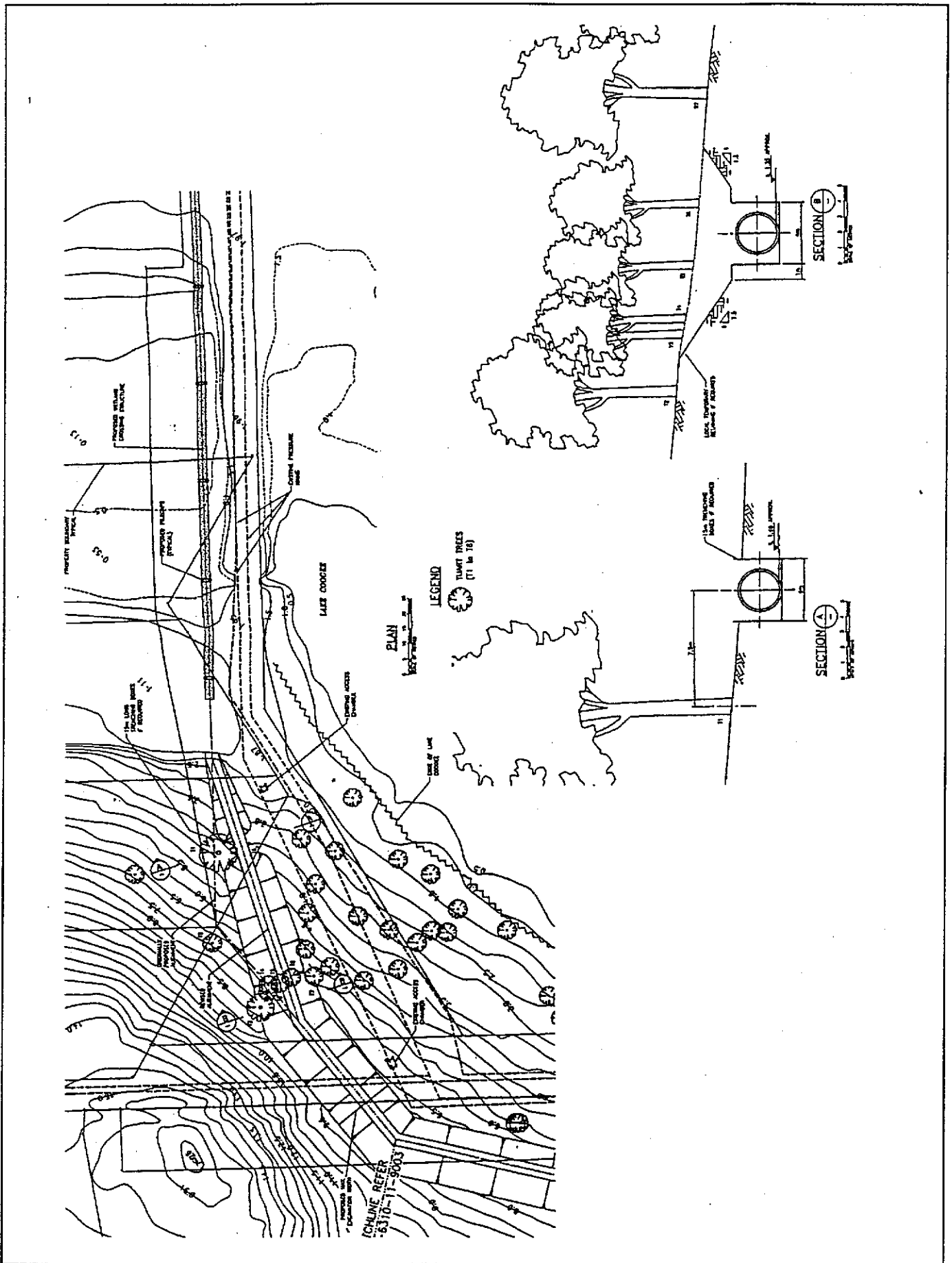


Figure 5. Trenching details at western end of wetland crossing (sheet 1) (Source: Woodman Alliance).

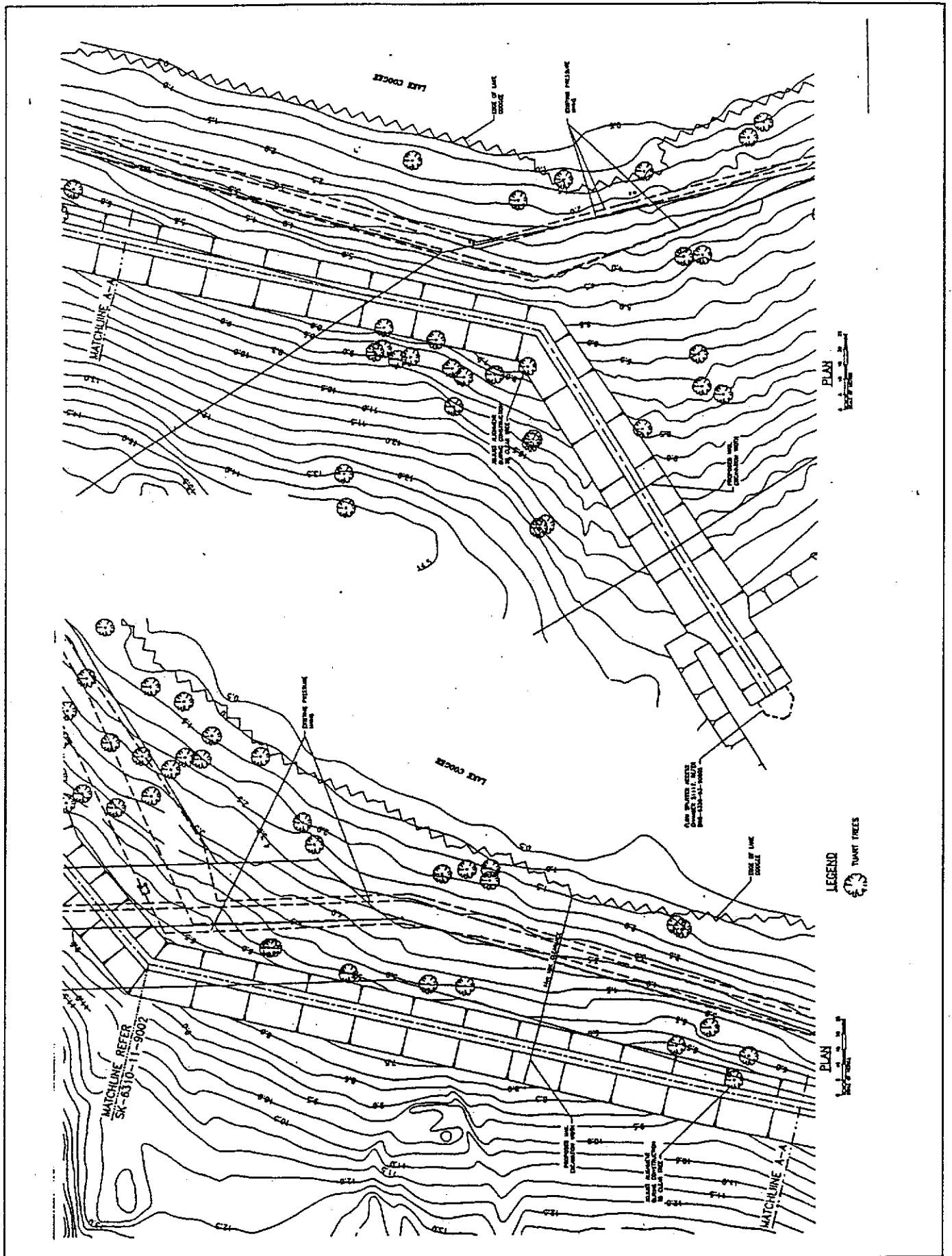


Figure 5. Trenching details at western end of wetland crossing (sheet 2) (Source: Woodman Alliance).

Schedule 2

**Proponent's Consolidated Environmental Management
Commitments**

March 2000

**Munster Pump Station No. 3 and Bibra Lake Main Sewer
Extension, Munster, City of Cockburn (1237)**

WATER CORPORATION

Munster Pump Station No. 3 and Bibra Lake Main Sewer Extension (Assessment No. 1237)

Proponent's Environmental Management Commitments

No.	Topic	Action (What/How/Where)	Objectives (Why)	Timing (When)	To requirements of (To Whom)	Advice (From Whom)	Evidence
1	Environmental Management Plan	Prepare and implement an Environmental Management Plan (EMP).	To ensure that the environmental impacts of the proposal are managed and to fulfil the requirements of the commitments.	Prepare Plan prior to construction, and implement in accordance with the Plan	DEP		Submission to DEP of Plan
2	Leak management	<p>Prepare and implement a Leak Management Plan for the Main Sewer which includes:</p> <ul style="list-style-type: none"> • internal inspection with a maximum interval of 7 years; • routine visual inspections of the above ground section; • criteria on which decisions to initiate repairs will be made; • repairs and maintenance; • emergency actions for that section of the Main Sewer passing over the wetlands to the north of Lake Coogee in the event of catastrophic damage. 	To ensure the integrity of the Main Sewer, minimise the potential for leaks and manage spillage of sewage at the wetland crossing in the event of catastrophic damage to the Main Sewer.	Prepare Plan prior to commissioning, and implement in accordance with the Plan	DEP	CoC, WRC and CALM	Submission to DEP, accompanied by letters from relevant agencies. Compliance reports.
3	Water management	<p>Prepare and implement a Water Management Plan for construction of the Main Sewer and Pump Station. The Plan shall address the following:</p> <ul style="list-style-type: none"> • prevention of direct discharge of excess water and storm water runoff to Lake Coogee and other adjacent wetlands; • disposal of groundwater. 	To ensure water quality in Lake Coogee, Market Garden Swamp No. 2 and Market Garden Swamp No. 3 remains within the seasonal range established prior to construction within three days of any incident attributable to construction activities.	Prepare Plan prior to construction, and implement in accordance with the Plan	DEP	WRC and CoC	Submission to DEP, accompanied by letters from relevant agencies. Compliance reports.
4	Dust management	Prepare and implement a Dust Management Plan for construction of the Main Sewer and Pump Station.	To ensure adverse impacts on adjacent areas are minimised.	Prepare Plan prior to construction, and implement in accordance with the Plan	DEP	CoC	Submission to DEP accompanied by a letter from the City of Cockburn. Compliance reports.

5	Soil contamination	<p>Prepare and implement a Soil Contamination Management Plan for the section of Main Sewer passing through the area of uncontrolled fill to the east of Lake Coogee which includes:</p> <ul style="list-style-type: none"> • identification of areas of soil contamination; and • management of identified contaminated soils. 	<p>To identify and manage any contaminated fill encountered during construction of the Main Sewer to the appropriate standard.</p>	<p>Prepare Plan prior to construction, and implement in accordance with the Plan.</p>	DEP	<p>Submission to DEP. Compliance reports.</p>
6	Landscape and vegetation	<p>Prepare and implement a Landscape and Vegetation Management Plan. This plan will:</p> <ul style="list-style-type: none"> • identify the areas to be disturbed during construction; • assess options; • specify procedures to minimise impacts on landforms, native wetland vegetation, Tuarts, other significant vegetation, and visual amenity; • use weed-free material (i.e. clean fill) for the construction of a temporary causeway. <p>The plan will also include a rehabilitation strategy that will:</p> <ul style="list-style-type: none"> • identify the areas to be revegetated; • specify revegetation planting; • specify landform modification and monitoring procedures; • incorporate weed management; and • specify responsibilities for on-going maintenance of rehabilitated and landscaped areas. 	<p>To achieve the following:</p> <ul style="list-style-type: none"> • minimise impacts on native vegetation, landforms of significance and visual amenity; • prevent spread of weeds as a result of construction activities; • rehabilitate disturbed areas; • undertake 50% more revegetation of wetland vegetation than disturbed by construction activities; • ensure no net loss of the values and functions of wetlands, and of vegetation in Bushplan sites. 	<p>Prepare Plan prior to construction, and implement in accordance with the Plan.</p>	DEP	<p>Submission to DEP, accompanied by letters from relevant agencies. Compliance reports.</p>
7	Odour control	<p>Control odour through the following measures:</p> <ul style="list-style-type: none"> • restrict openings at Munster Pump Station No. 3 and along the portion of the Bibra Lake Main Sewer in the proposal, to manholes; • seal all manholes within the proposal with airtight covers which will be bolted down to withstand a 9 m head of water; and • undertake remedial actions if necessary. 	<p>To ensure that odours, if any, associated with the proposal (except during annual maintenance of the Main Sewer) are contained within the existing odour buffer surrounding the Woodman Point Wastewater Treatment Plant</p>	<p>During commissioning</p>	DEP	<p>Submission to DEP. Compliance Report</p>

8	Wetland crossing	Undertake the construction and removal of the temporary causeway over the wetlands to the north of Lake Coogee in the period between 1 December and 31 May; or earlier/later, if in the opinion of the DEP, WRC and CoC, it is considered to be environmentally acceptable.	To minimise disturbance to the wetlands to the north of Lake Coogee by limiting causeway construction activities to a time when the water level will be at its lowest.	During construction	DEP	CoC, CALM and WRC	Compliance Report
9	Market Garden Swamp No. 2	Examine and report on opportunities and impacts of increasing the hydrological connectivity between Lake Coogee and Market Garden Swamp No. 2 through the existing causeway. Prepare and implement a strategy to increase the hydrological connectivity through the existing causeway in the event that such action is likely to improve the quality and viability of Market Garden Swamp No. 2 and Lake Coogee.	To improve the quality and viability of Lake Coogee and the wetlands to the north.	Prepare report and strategy (as appropriate) prior to commissioning	DEP	WRC and CoC	Report and strategy (as appropriate) submitted to DEP accompanied by a letter from relevant agencies. Compliance Report.
10	Recreation	Incorporate a walkway on the top of the structure over the wetlands to the north of Lake Coogee.	To link the existing and proposed dual use paths on the eastern and western shores of Lake Coogee.	During construction	City of Cockburn	CALM	Compliance Report
11	Ruins	Erect an exclusion fence approximately 10 m from the perimeter of the ruins located on the southern side of the Munster Pump Station No. 3 site.	To prevent inadvertent impacts during construction.	Prior to construction	DEP	CoC	Compliance Report
12	Culture and Heritage	Monitor the area of the proposed Main Sewer and Pump Station for Aboriginal and European skeletal and artefactual material and engage a qualified archaeologist upon finding any evidence of possible material.	To prevent inadvertent impacts on items of cultural or heritage value.	During excavation and construction	Aboriginal Affairs Department		Compliance Report
13	Vibration	Undertake a Property Condition Survey of houses along the route of the Main Sewer, with documentary evidence acquired and stored for later reference.	To provide evidence if there are any claims of damage during construction.	Prior to construction	DEP		Submission to DEP

14	Community Reference Group	<p>Establish a Community Reference Group. The Group will have a membership which includes the following:</p> <ul style="list-style-type: none"> • City of Cockburn; • Conservation Council of W.A.; • Department of Environmental Protection; • Wetlands Conservation Group ; • local residents; and • CALM. 	<p>To enable the community to provide input into the development and on-going implementation of the Environmental Management Plan required by commitment 1. To enable the proponent to provide information to the community regarding the potential environmental impacts of construction, commissioning and operation of the proposal.</p>	<p>Establish the Community Reference Group within one month following the formal authority issued to the decision-making authorities under section 45(7) of the Environmental Protection Act.</p> <p>The Group will function during the design, construction, commissioning and the first two years of operation of the proposal.</p>	DEP		Submission of evidence of consultation to the DEP
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Abbreviations

- CALM** Department of Conservation and Land Management
- DEP** Department of Environmental Protection
- WRC** Water and Rivers Commission
- CoC** City of Cockburn