



STANDARD SPECIFICATION

FOR

EXCAVATION AND REINSTATEMENT OF SERVICES UNDER COUNCIL CONTROLLED LAND

**(RELEVANT TO INSTALLATION AND
MAINTENANCE OF UNDERGROUND SERVICES)**

CD/20/36

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APPLICATION TO LAY UNDERGROUND WATER SERVICES

APPLICATION TO LAY UNDERGROUND ELECTRICAL HOUSEHOLD CONNECTION

APPLICATION TO LAY GAS PIPELINE SERVICES

1. SCOPE

The excavation and reinstatement requirements contained in this Specification apply to roads and reserves which are maintained by the Council (as defined in Clause 2.2 "Council"). All work shall conform this Specification unless otherwise approved by the Director - Works & Engineering.

This Specification shall be adhered to when excavation, along or across any pavement or shoulders on these roads is required for service installations, relocation of existing services, drainage or other reasons.

Notwithstanding any variation to certain of the requirements which and Government Authority (Federal or State) may consider it can exercise by virtue of its own or any other enabling legislation with respect to any underground installations, the technical and quality standards of roadwork and materials specified herein are the minimum acceptable within the meaning of words "make good" or "reinstate" used in most such legislation.

2. DEFINITIONS

2.1 General

The definitions given in AS1348 "Road and Traffic Engineering - Glossary of Terms" shall apply to all appropriate wording in this specification.

2.2 Council

"Council" means The Barossa Council.

2.3 Director - Works & Engineering

"Director - Works & Engineering" being the Council Officer directly responsible for any form of construction and or maintenance of Council owned land within The Barossa Council.

2.4 Service Authority

"Service Authority" means the person, Statutory Authority, Government Department, Corporate body or any other Organisation (private, State or Federal) responsible for the excavation and reinstatement referred to in this Specification. Some examples include the following:

Telstra
Optus
SA Water
SA POWER NETWORKS
Gas Company
Private Individuals

2.5 Minor Programmed Works

Works confined to two days duration from commencement to completion.

2.6 Major Programmed Works

Works exceeding two days duration from commencement to completion.

2.7 Excavation

“Excavation” is to incorporate any disturbance to any surface.

3. STAGES

3.1 Notification of proposed Works

Notification should be formally given to Council prior to work commencing, in writing requesting approval for the said works and to include a sketch plan of the proposal and suggested timeframe.

3.2 Approval granted

Council will notify the Service Authority of their approval to the said works and to include any alterations, specifications, timeframes and any concerns e.g. Native vegetation, future works and planning requirements.

3.3 Undertaking of works

Council is to be notified of the commencement of works so that the relevant inspections can take place to confirm location, compliance to specifications and reinstatement.

3.4 Completion of works

The Service Authority upon completion of the works shall notify Council as soon as possible so that compliance can be ascertained.

Also the service authority to supply Council with a Plan of the finished product showing:

- The location
- The depths of the service
- Any reference to on site features such as boundaries, posts, buildings
- Measurements of location and size of the services
- Any other services depicted
- References to any known easements.

4. GENERAL

4.1 Council Notification

The Service Authority shall notify the Council where it carries out excavation on, along or across any road pavement, shoulder or reserve which is maintained by the Council, in accordance with the procedures given below.

These procedures also apply to those Service Authorities where enabling legislation (e.g. Waterworks Act and Sewer Act) provides for, or where the Director - Works & Engineering approves otherwise, the quality, supply and placing of the surfacing by the Service Authority (as in accordance with Clause 7.5 “Asphalt and Sprayed Bituminous Surfacing”).

4.1.1 Minor Programmed Works

Where the Council is to undertake final surfacing, at least forty-eight hours' notice shall be given to the Director - Works & Engineering before any work is commenced, otherwise prior notice is not required.

4.1.2 Major Programmed Works

Work shall be in accordance with drawings, specifications and work methods submitted at least four weeks prior to the intended work and approved by the Director - Works & Engineering, before any work is commenced.

Furthermore, the Service Authority shall be responsible for advising the Director - Works & Engineering at least twenty-four hours before commencement of excavation in order that regular inspections and arrangements for final reinstatement can be made.

4.1.3 Emergency Works

Where either the road pavement or shoulder is damaged, or excavation of same is necessary in emergency situations, then the Service Authority shall provide verbal notification to the Director - Works & Engineering, as soon as practicable after the emergency becomes known, in order that regular inspections and arrangements for final reinstatement and maintenance period commencement can be made.

4.1.4 Attachment of Services to Bridge and Culvert Structures

Drawings, including fixture details, are to be submitted to the Director - Works & Engineering, at least six weeks prior to the intended work and approved by the Director - Works & Engineering before any work is commenced.

4.2 Identification of Completed Work within the Maintenance Period

After completion of the work, and at any time upon request within the maintenance period, the Service Authority shall supply the Director - Works & Engineering with details, including sketches, size, location and date constructed, of their reinstatement.

4.3 Safety

The Service Authority shall be responsible for the safety of vehicle, bicycle and pedestrian traffic for the duration of the work and all due precautions shall be taken and adequate warning given to traffic to ensure safety around the worksite in accordance with the AS1742 "Manual of Uniform Traffic Control Devices", Part 3 as modified by the "Code of Practice for the Installation of Traffic Control devices in SA" available from the Department of Transport, 33-37 Warwick Street, Walkerville.

Occupational Health and Safety

The service authority shall supply to Council a copy of their Occupational Health and Safety policy or if none available agree to the specific conditions as per the Occupational Health and Safety policy of The Barossa Council.

Public liability insurance

The service authority is to show to Council proof of Public Liability insurance to the value of 10 million dollars.

4.4 Trenchless Methods

This Specification does not apply to the installation of services where alternatives to open trenching such as thrust boring, tunneling etc. are used. The Director - Works & Engineering, which will specify the appropriate reinstatement procedures, shall be given prior notice if it is intended to use trenchless methods. However plans of the proposed new services still need to be supplied.

5. EXCAVATION

5.1 Trenching Times

Trenching which is likely to reduce traffic volumes should not be carried out between 7.00am and 9.00am or between 4.00pm and 6.00pm on peak flow traffic lanes, unless unavoidable due to emergency circumstances, or otherwise approved by the Director - Works & Engineering. Works shall be organised so as to cause minimal disruption to traffic, pedestrians and access to properties at all times.

Approximately one half of the carriageway shall remain open to traffic at all times, unless otherwise approved by the Director - Works & Engineering.

Director - Works & Engineering at his discretion, can alter the trenching time to reduce disturbance to adjacent residential properties.

5.2 Detector Loops

All the necessary care and precaution shall be taken to prevent damage occurring to the detector loops where excavation is to be undertaken in the vicinity of traffic signals. Where damage occurs the Service Authority shall lodge an order with the Department of Transport to cover the cost of repairing detector loops.

5.3 Sawcut

The trench shall be sawcut to the full depth of the existing asphalt surface. Where cement stabilized pavement exists, the pavement shall be sawcut to the full depth (unless restricted by cutting equipment) to minimise damage to the surrounding pavement.

A sawcut is not required for roads surfaced with a light bituminous surface treatment.

5.3 Excavated Material

Unless otherwise approved by the Director - Works & Engineering, excavated material shall not be reused in the reinstatement of trenches and shall be removed from the site and appropriately disposed.

6. BACKFILL

Prior to backfill operations, all loose rubbish and foreign material shall be removed from the excavation. All spaces excavated and not occupied by permanent work shall be backfilled.

Excavations shall be backfilled with Sand Type C to Department of Planning Transport and Infrastructure (DPTI) Standard Specification (available [here](#)) or alternatively, approved (by Director - Works & Engineering) clean quarry sand using AS1289, test method 5.2.1 (modified compaction) for:

- (a) not less than 90%, up to a level 800mm below finished level, and/or
- (b) not less than 95% at all levels above 800mm below finished level.

For pavement reinstatement other than unsealed shoulders the compacted backfill shall be brought to a level 525mm and 460mm below the finished road level for asphalt and sprayed bituminous roads respectively. For unsealed shoulders the compacted backfill shall be brought to a level 300mm below the finished level.

7. PAVEMENT REINSTATEMENT

7.1 Asphaltic Concrete Surfaced Roads

After completion of the backfill, 20mm crushed road pavement material complying with Department of Planning Transport and Infrastructure (DPTI) Standard Specification (available [here](#)) PM1/20 or PM2/20 with 2% cement shall be used to reinstate the excavation to a level not less than 50mm nor more than 75mm below the existing surface adjoining the excavation in accordance with Figures 3 and 4 of DPTI *Pavement Reinstatement Configurations* available [here](#).

As an alternative to quarry supplied material, it is permissible to add cement to crushed rock PM1/20 or PM2/20 on site to the following mix: 40kg of cement (general blend, GB) to 1000kg of crushed rock.

The cement treated crushed rock shall be uniformly compacted in equal horizontal layers not exceeding 150mm thickness to not less than 98% of the dry density determined using AS1289, test method 5.2.1 (modified compaction).

To ensure maximum performance of the cement treated material, the cement treated material shall be placed and compacted within two hours.

7.2 Sprayed Bituminous Surfaced Roads

After completion of the backfill, 20mm crushed road pavement material complying with DPTI Standard Specification PM1/20 or PM2/20 shall be used to reinstate the excavation to a level approximately 10mm below the existing surface adjoining the excavation in accordance with Figures 1 and 2 of DPTI *Pavement Reinstatement Configurations* available [here](#). The reinstatement depth may vary slightly with the Average Least Dimension of the final aggregate size selected.

The crushed rock shall be uniformly compacted in horizontal layers 150mm thickness to not less than 98% of the dry density determined using AS1289, test method 5.2.1 (modified compaction).

7.3 Unsealed Road Pavements and Shoulders

After completion of the backfill, a compacted 300mm depth of 20mm crushed road pavement material complying with DPTI Standard Specification PM2/20, or equivalent material approved by the Director - Works & Engineering, shall be placed and compacted in two horizontal layers to reinstate the shoulder to the finished shoulder level and matching existing shoulder cross fall (refer Figure 6 of DPTI *Pavement Reinstatement Configurations* available [here](#)). Compaction shall be to 95% of the dry density determined using AS1289, test method 5.2.1 (modified compaction)

7.4 Temporary Pavement Surfaces

On completion of backfill and pavement reinstatement, it shall be the responsibility of the Service Authority, to maintain the open surface of the reinstated excavation until final asphalt or other bituminous surfacing has commenced.

A temporary pavement surface shall be provided and maintained by the Service Authority, who shall ensure the surface is in safe and trafficable condition for all traffic including bicycles, at all times pending final surfacing.

7.5 Asphalt and Sprayed Bituminous Surfacing

The applicant will arrange or place asphalt or other bituminous surfacing for all excavation reinstatement work. All costs shall be borne by the applicant/Service Authority.

Where enabling legislation of the Service Authority overrides this stipulation (i.e. Waterworks Act and Sewers Act) or where the Director - Works & Engineering approves otherwise, the quality, supply and placing of the surfacing can be undertaken by the Service Authority, provided that in all circumstances, confirmation is made with the Director - Works & Engineering to ensure that no modified asphalt treatment (e.g. Open Graded Friction Course) exists along the road section where work is to be carried out.

Where modified asphalt treatment exists, the Director - Works & Engineering will specify the appropriate surface reinstatement procedure.

Wherever standard asphalt or other bituminous surfacing exists, the following surface reinstatement requirements shall apply as appropriate:

- (a) Comply with quality requirements and the finished acceptance criteria of DPTI Master Specification RD-PV-C6 *Reinstatement of Existing Pavements* (available [here](#)).
- (b) Comprise a sprayed prime or tackcoat and asphaltic concrete AC14 wearing course in accordance with RD-PV-C6 (unless otherwise directed by the Director - Works & Engineering) placed in layers not less than 30mm or greater than 50mm compacted thickness, finished off evenly and flush with the adjoining pavement surface.
- (c) Comprise primerseal and sprayed bituminous surface with matching size and texture to the existing adjacent road surfacing, placed not less than forty-eight hours after the primerseal with an emulsion or hot cut-back binder. The level of workmanship shall comply with the general requirements of RD-PV-C6.

7.6 Pavement Markings

The Service Authority shall lodge an order with the Director - Works & Engineering, to cover the full cost of reinstatement of any painted pavement markings, raised pavement markers or safety bars, which are removed or damaged during trenching works. This order shall be lodged as soon as practicable.

7.7 Road Furniture

The Service Authority shall replace all road signs, guide posts, guard fence or other road furniture which are temporarily removed or damaged during trenching work, ensuring that all road furniture is made good (including sign mounting heights) and cleaned. This work is to be completed prior to traffic use.

7.8 Concrete Kerbing

The Service Authority shall reinstate (in concrete) any concrete kerb and gutter or median type kerb which is removed or damaged during trenching work, ensuring that the kerb profile, conforms with existing. Kerb reinstatement shall be completed by the Service Authority within three days of leaving the worksite. Concrete used in the work shall be in accordance with AS1379, "The Specification and Manufacture of Concrete", and shall be Grade N20 concrete.

7.9 Road Drainage Systems

The Service Authority shall report all instances of damage caused to the road drainage system, i.e. Culverts, sumps, subsoil drainage, roadside drainage systems etc. incurred during trenching works, to the Director - Works & Engineering. All costs for the repairs shall be borne by the Service Authority.

7.10 Medians/Traffic Islands

The Service Authority shall reinstate medians and traffic islands, to conform with the existing surface treatment.

The Service Authority shall lodge an order, as soon as practicable, with the Director - Works & Engineering, to cover the replacement of any vegetation (e.g. Shrubs, median grasses, etc.) which are removed or damaged during trenching works.

7.11 Native Vegetation

The Service Authority/applicant shall take into account all relevant information under the Native Vegetation Act and Local Roadside Vegetation Management Plans (where applicable) using proper Land Management principles. Removal and disturbance of native vegetation and trees needs to be avoided. However, where there are situations where it is not possible to avoid native vegetation and trees within the road reserve the applicant must obtain approval from the Director - Works & Engineering. In certain circumstances the Native Vegetation Branch and Council will be consulted.

Proper Land Management

Proper Land Management can be referred to as the organisation or regulation of land use activities for a specific purpose in the manner that will support sustained use. Maintenance or improvement of the integrity of the land, water, atmosphere and its aesthetic value is the objective.

The terms capability and degradation are often used with regard to proper land management and the Soil Conservation and Land Care Act 1989 these terms defined as follows:

Capability: in relation to land, means the ability of the land to sustain a particular use without suffering permanent damage or a reduction in future productivity.

Degradation: of land means a decline in the quality of the soil, vegetation, water and other natural resources of the land, resulting, from overgrazing, excessive tillage, over clearing, mineral extraction, development of towns, disposal of wastes, road construction, failure to control plant and animal pests or any other human activity on the land.

The Oxford Dictionary defines "sustained" use as the ability to support that use for a long period of time and "integrity" of the land as the wholeness or soundness of the land.

7.12 Other Services

It is the responsibility of the Service Authority to arrange for the location of other services, such as Telstra, Effluent, SA Water, SA POWER NETWORKS, and Gas etc.

8. CONFORMITY TESTING

The Service Authority shall submit to the Director - Works & Engineering copies of laboratory test results to confirm compliance with materials and compaction requirements as specified herein for any reinstatement works carried out within fourteen days of testing. Testing is not required for emergency work.

Testing shall be undertaken by a laboratory registered by the National Association of Testing Authorities (NATA)

The arrangement and cost of such testing shall be borne by the Service Authority. It shall be the responsibility of the Services Authority to remove and replace any material used by the Service Authority which does not comply with this Specification.

8.1 Material

All pavement material shall comply with Department of Planning Transport and Infrastructure (DPTI) Standard Specification (available [here](#)) as appropriate, and conformance documentation may be required.

8.2 Compaction

The following minimum frequencies of testing shall apply:

(a) Pavement

- | | |
|-------------------------|--|
| 0-50 m ² | - no testing required |
| 50-200 m ² | - minimum 2 tests |
| over 200 m ² | - 2 tests and an additional test for every 200 m ² over 200 |

(b) Backfill

No testing required unless otherwise directed by the Director - Works & Engineering.

9. MAINTENANCE PERIOD

For all work, notwithstanding the reinstatement of the surface by the Department of Planning Transport and Infrastructure (DPTI), the Service Authority will be responsible for the cost of making good any settlement or other deterioration in the reinstated excavation for a maintenance period of one year after reinstatement.

Where it is agreed by the Director - Works & Engineering that the reinstatement of the asphalt or other bituminous surface of the excavation for a service installation or repair service is to be carried out by the Service Authority, or where enabling legislation exists the same, then the responsibility to maintain the completed surface in a safe and trafficable condition for all traffic including bicycles, shall remain with the Service Authority until the end of the maintenance period.

The Service Authority shall indemnify and keep indemnified the Council against all claims which may arise due to excavations or settlement of excavations until the maintenance responsibility has transferred to the Council.

All cost and charges incurred by the Director - Works & Engineering for any works necessitated by the Council due to non-compliance with the requirements of this Specification for all installations by the Service Authority are to be borne by the Service Authority until the end of the maintenance period.

Before carrying out any work necessitated by settlement of the excavation for all installations and for which an order has not been obtained, the Director - Works & Engineering will give notice in accordance with the requirements of Section 221 of the Local Government Act, to the Service Authority of his intentions so that the deficient work may be inspected before rectification.

THE BAROSSA COUNCIL
APPLICATION TO LAY UNDERGROUND WATER SERVICES

I..... (Name in Full)

of..... (Address In Full)

hereby make application to The Barossa Council for a licence to lay a pipe across/along
road.....

between Lot.....Section.....Hundred of.....

and land owned

by.....

being Lot.....Section.....Hundred of.....

For the purpose of conveying water to the said land.

A plan indicating the location of the proposed work showing distances from the boundaries,
is to be attached.

DECLARATION

I have read the conditions set out on this form and agree to the application being subject
to those conditions. I agree to install the pipe at my own expense and solely responsible for all
repairs.

I shall at all times keep the Council, its servants, agents, workmen and contractors indemnified
against all actions, suits, proceedings, losses, damages, charges, claims or demands which may
arise because of the presence of the pipe under Council owned land.

.....
NAME

.....
SIGNATURE

.....
DATE



CONDITIONS

The Council will consider granting a licence, in terms of section 221 of the Local Government Act 1999 to owners of land abutting public roads to lay water pipe across or along any Council owned land following the receipt of an application in writing following the guidelines as set out within this document.

A licence is granted subject to the following general requirements and conditions:

1. Where a water pipe is to cross a constructed road.

- (a) The water pipe is to be sleeved in an approved manner to permit withdrawal, in the event of damage or soakage, without the necessity of digging up the road.
- (b) The crossing point must be located at least two metres away from the outer edge of any culvert or head wall.
- (c) The water pipe is to be connected with union joints adjacent to the boundaries of the properties and the road to facilitate withdrawal if necessary.
- (d) The trench to lay the pipe and sleeve is to be excavated so that minimum cover below the water table or lowest elevation of the road is achieved in accordance with Table 2 of SA Water 'Water Supply Construction Manual' drawing 4005-30002-01.
- (e) The trench is to be thoroughly tamped, consolidated, backfilled and maintained as per "Excavation and reinstatement of services under Council controlled land" Policy.

2. Where a pipe is to be laid along the road.

- (a) Pipe cover shall be provided in accordance with Table 2 of SA Water 'Water Supply Construction Manual' drawing 4005-30002-01
- (b) The alignment of the pipe shall be as close to 600mm from the property boundary as is practicable but in any event not closer than two metres from the end of a culvert or head wall.
- (c) The pipe is to be at least 500mm below the invert of any storm water drain to facilitate silt removal.
- (d) The trench is to be thoroughly tamped, consolidated, backfilled and maintained as per "Excavation and reinstatement of services under Council controlled land" Policy.

GENERAL

1. The Council accepts no responsibility for damage to or by the pipe and sleeve however so arising and, without in any way limiting the effect of this clause, including the damage that may be caused by road maintenance and or construction.
 2. The licence may be revoked at any time by the Council by notice in writing to the licensee whereupon the licensee shall remove the pipe at his own expense or in default, the Council may remove the pipe and recover the costs incurred from the licensee.
 3. On the change of ownership of the property the licence shall be transferred to the new owner, subject to the aforesaid requirements and conditions, without the necessity of the new owner making application.
 4. A plan shall be supplied and meet the requirements as set in the "Excavation and reinstatement of services under Council controlled land" Policy.
 5. Any special requirements that are considered necessary.
-

THE BAROSSA COUNCIL

APPLICATION TO LAY UNDERGROUND ELECTRICAL HOUSEHOLD CONNECTION

I..... (Name in Full)

of..... (Address In Full)

Hereby make application to The Barossa Council for approval to install a household electrical connection to:

Lot.....House Number.....Section.....Hundred of.....

Street.....

Township.....

Electrician

Name.....

Postal address.....

Licence Number.....

A plan indicating the location of the proposed work showing distances from the boundaries, is to be attached.

DECLARATION

I have read the conditions set out on this form and agree to the application being subject to those conditions. We agree to install the pipe at the owner's expense and be solely responsible for all repairs.

The owner shall at all times keep the Council, its servants, agents, workmen and contractors indemnified against all actions, suits, proceedings, losses, damages, charges, claims or demands which may arise because of the presence of the service under Council owned land.

.....
OWNER'S NAME

.....
SIGNATURE

.....
ELECTRICIAN'S NAME

.....
SIGNATURE

.....
DATE



CONDITIONS

The Council will consider granting a licence, in terms of section 221 of the Local Government Act 1999 to owners of land abutting public roads to lay underground cable across or along any Council owned land following the receipt of an application in writing following the guidelines as set out within this document.

A licence is granted subject to the following general requirements and conditions:

1. The underground cable is to be laid at a minimum depth of 600mm below the present or future surface, whichever is lower.
2. The underground cable shall be laid from SA Power Networks pole Trenching across Council verge
 - To the property boundary alignment at 90 degrees to the road alignment Trenching along Council verge
 - To a cable zone 40cm to 90cm from the property boundary at 90 degrees to the road alignment

All direction changes shall be at 90 degrees to the road alignment

3. Cables shall be laid in accordance with the Australian Standard specifications CCI Part 1 1971 (SAA, wiring rules), and SA POWER NETWORKS service requirements.
4. During construction the service authority shall erect proper signs and barricades as per the "Excavation and reinstatement of services under Council controlled land" Policy.
5. Upon completion of the project the service authority shall ensure that the trench is to be thoroughly tamped, consolidated, backfill and maintained as per "Excavation and reinstatement of services under Council controlled land" Policy.
6. The underground cable installation shall be approved by Council and SA POWER NETWORKS before excavations are backfilled.
7. The Council shall not accept responsibility for any damage or claims resulting from the laying of the service.
8. No responsibility will be accepted by Council for any damage to the service from any causes whatsoever.
9. Any future alterations necessary through widening or other works shall be carried out at no cost to Council.
10. The service shall remain during the pleasure of Council.
11. Prior to submitting this application, the electrician shall contact SA POWER NETWORKS, Telstra, SA Water and any other relevant department to ascertain the location of underground plant and any special precautions necessary.

GENERAL

1. The Council accepts no responsibility for damage to or by the underground cable and or sleeve however so arising and, without in any way limiting the effect of this clause, including the damage that may be caused by road maintenance or construction.
 2. A plan shall be supplied and meet the requirements as set out in the "Excavation and reinstatement of services under Council controlled land" Policy.
 3. Any special requirements that are considered necessary.
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THE BAROSSA COUNCIL APPLICATION TO LAY GAS PIPELINE SERVICES

I..... (Name in Full)

of..... (Address In Full)

hereby make application to The Barossa Council for a licence to lay a pipe across/along road.....

between Lot.....Section.....Hundred of.....

and land owned

by.....

being Lot.....Section.....Hundred of.....

For the purpose of conveying gas to the said land.

A plan indicating the location of the proposed work showing distances from the boundaries, is to be attached.

DECLARATION

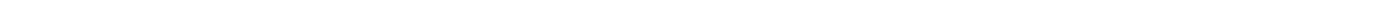
I have read the conditions set out on this form and agree to the application being subject to those conditions. I agree to install the pipe at my own expense and solely responsible for all repairs.

I shall at all times keep the Council, its servants, agents, workmen and contractors indemnified against all actions, suits, proceedings, losses, damages, charges, claims or demands which may arise because of the presence of the pipe under Council owned land.

.....
NAME

.....
SIGNATURE

.....
DATE



CONDITIONS

The Council will consider granting a licence, in terms of section 221 of the Local Government Act 1999 to owners of land abutting public roads to lay gas pipes across or along any Council owned land following the receipt of an application in writing following the guidelines as set out within this document.

A licence is granted subject to the following general requirements and conditions:

1. Where a gas pipe is to cross a constructed road.

- (a) The pipe is to be sleeved in an approved manner to permit withdrawal, in the event of damage or soakage, without the necessity of digging up the road.
- (b) The pipe is to be connected with union joints adjacent to the boundaries of the properties and the road to facilitate withdrawal if necessary.
- (c) The trench to lay the pipe and sleeve is to be excavated so that the pipe and sleeve will be at least 500mm below the water table or lowest elevation of the road.
- (d) The trench is to be thoroughly tamped, consolidated, backfilled and maintained as per "Excavation and reinstatement of services under Council controlled land" Policy.

2. Where a pipe is to be laid along the road.

- (a) The pipe shall be at least 500mm below natural surface.
- (b) The alignment of the pipe shall be as close to 600mm from the property boundaries.
- (c) The pipe is to be at least 500mm below the invert of any storm water drain to facilitate silt removal.
- (d) The trench is to be thoroughly tamped, consolidated, backfilled and maintained as per "Excavation and reinstatement of services under Council controlled land" Policy.

GENERAL

- 1. The Council accepts no responsibility for damage to or by the pipe and sleeve however so arising and, without in any way limiting the effect of this clause, including the damage that may be caused by road maintenance and or construction.
 - 2. The licence may be revoked at any time by the Council by notice in writing to the licensee whereupon the licensee shall remove the pipe at his own expense or in default, the Council may remove the pipe and recover the costs incurred from the licensee.
 - 3. On the change of ownership of the property the licence shall be transferred to the new owner, subject to the aforesaid requirements and conditions, without the necessity of the new owner making application.
 - 4. A plan shall be supplied and meet the requirements as set in the "Excavation and reinstatement of services under Council controlled land" Policy.
 - 5. Any special requirements that are considered necessary.
-