

Appendix R

Utility Services Report – Erbas & Associates Pty Ltd



ERBAS & ASSOCIATES Pty. Ltd.
BUILDING SERVICES CONSULTING ENGINEERS

Newcastle Private Hospital

Extensions for Healthscope Limited

14 Lookout Road, New Lambton Heights

Building Services Concepts Report
Mechanical, Electrical, Communications, Lighting
Medical Gases, Lifts, Fire and Hydraulic Services



Consulting Engineers:

Erbas & Associates Pty Ltd
Suite L101, Level 1
15 Atchison Street
ST LEONARDS NSW 2065
Phone: (02) 9437 1022
Fax: (02) 9437 1025
E-mail: mark@erbas.com.au

PROJECT NO: EA_1281

Review and Approval Record

Rev	Date	Description of Release	Prepared By	Reviewed By	Approved By
F	12/05/09	Requested Changes	IF/LN/MH	SP	KE

Table of Contents

1	INTRODUCTION	4
2	DESCRIPTION OF MECHANICAL SYSTEMS	6
2.1	Relevant Codes and Standards:	6
2.2	Air Conditioning System:	6
2.3	Ventilation Systems:	6
2.4	Fire Stair Pressurisation Systems	7
2.5	Building Management System:	7
2.6	Energy Conservation:	7
3	DESCRIPTION OF ELECTRICAL, LIGHTING, FIRE DETECTION AND COMMUNICATIONS SERVICES	8
3.1	Relevant Codes & Standards	8
3.2	Electrical Supply	8
3.3	Diesel Generator/Essential Services	8
3.4	Metering	8
3.5	Main Communications	8
3.6	Miscellaneous Communications Systems	9
3.7	Lighting	9
3.8	Fire Alarm & EWIS	9
3.9	Emergency Lighting & Exit Signs	9
3.10	Lightning Protection/Surge Protection/Body Protection	9
3.11	MATV System	9
4	DESCRIPTION OF HYDRAULIC & FIRE PROTECTION SERVICES	10
4.1	Infrastructure (Sewer, Water & Natural Gas) and site constraints	10
4.2	Regulations	10
4.3	Cold Water Service	10
4.4	Fire Hydrant Service	10
4.5	Hose Reel Services	10
4.6	Natural Gas Services	10
4.7	Hot Water Services	10
4.8	Sanitary Plumbing, Drainage & Vents	11
4.9	Downpipes	11
4.10	E.S.D Initiatives	11
5	DESCRIPTION OF MEDICAL GAS SERVICES	12
5.1	Regulations:	12
5.2	Medical Oxygen:	12
5.3	Medical Suction:	12
5.4	Nitrous Oxide:	12
5.5	Medical Air:	12
5.6	Two New Operating Theatre:	12
5.7	Medical Service Panels and Pendants:	13
5.8	Valve Boxes and Alarm Panels:	13
6	DESCRIPTION OF WET FIRE SERVICES	14

6.1	Fire Sprinkler Services.....	14
6.2	E.S.D Initiatives.....	14
7	DESCRIPTION OF LIFT SERVICES	15
7.1	Electric Traction Lift	15
8	APPENDIX	16

1 INTRODUCTION

The project is an initiative of the new Newcastle Private Hospital owners, Healthscope Ltd., to extend and improve operations at one of the foremost private Hospitals in the Hunter Region.

The main component of the development is a substantial new building to the north of the Kingston building, on Hunter New England Area Health (HNEAH) land bounded by Jacaranda drive to the north, Hunter Rehab Building to the west, and Kingston Building and Croudace House view curtilage to the south. Contained within the podium of the new building is an open deck carpark for 226 vehicles and the new relocated loading dock with some stores. Loading dock deliveries will now arrive via Jacaranda Drive. Private car entry will remain via Tea House Road but will also include Jacaranda Drive. Ground and first floors to contain bedrooms & ancillary services. Second floor, containing privately owned medical suites.

Alterations to the Kingston Building are focused on expansion of operating rooms by two, projecting the building over the former loading dock. Ancillary services including Central Sterile Department (CSD) and Recovery will also need to expand in accordance with this. Links from Kingston to the north building on every floor requires some loss of beds and replanning and rationalisation of existing wards. Total number of new beds, 60. Total number of existing beds to remain, 115. Total beds 175.

The proposal also includes reconfiguration of roadways (and carparking) between Croudace House, The Croudace Building and The Kingston Building. Landscape design to this area, Croudace House north curtilage, the new light court created between Kingston and North extension and its curtilage will be a necessary component.

In summary the new development features are:

The proposed new 6 storey hospital building to the north of the Kingston Building will contain:

- Level B3 – Basement staff car park (74 car spaces) with a floor RL of 89.39 at eastern end of car park and 90.98 at western end of car park.
- Level B2 – Truck hardstand (floor RL 92.19), loading dock (floor RL 93.19), stores, plant room, and basement car park (floor RL 93.74) with 51 car spaces. As shown on the plans the Level B2 car park proposed will be connected to the existing Kingston Building car park.
- Level B1 – Basement car park (70 spaces) with a floor RL of 96.5 and plant room. As shown on the plans the Level B1 car park proposed will also be connected to the existing Kingston Building car park.
- Ground Floor – Car park (31 spaces), plant room and 30 medical inpatient beds with floor RL of 100.00. As shown on the plans the ground floor will be linked to the existing Kingston Building ground floor.
- First Floor – 30 surgical inpatient beds, and plant room (floor RL 104.00). As shown on the plans, the first floor will also be linked to the existing Kingston Building first floor.
- Second floor – 8 medical suites, and plant room (floor RL 108.40) As shown on the plans, the second floor will be linked to the existing Kingston Building second floor.
- A new loading dock and waste disposal area will also be provided under the new car park building with access from Jacaranda Drive.

The alterations and additions to the existing Kingston Building will include the following:

- The loading dock and some store areas will be relocated down to the new B3 podium level of the proposed new building, with entry from Jacaranda Drive.
- Ground floor – As shown via shading on the plans, ground floor alterations include a new supply services area and new kitchen.
- First floor – As shown via shading on the plans, the following alterations will be made:
 - The first floor plate will be extended above the landing dock to the east to accommodate two new operating theatres with ancillary services.
 - An additional steriliser will be provided adjacent to the existing sterilizer within the Central Sterile Department (CSD) which will also be expanded.
 - Addition of a new Stage 3 recovery area.
 - Addition of another new staff station

Other features include:

- 13 additional ground level carparking spaces adjacent to Croudace and Kingston Building entries.
- Remediation of the site; to north of Kingston Building.
- A plan for an additional 11 car parking spaces near the Croudace Building will be managed under a separate development application.

Summary:

- Remediation of the site
- An additional 60 inpatient beds in a new 6 storey hospital building
- Alterations and additions to the existing Kingston Building including two additional operating theatres with additional support services
- 250 car parking spaces(226 in-building car park spaces,13 on-street spaces at front of hospital and 11 on-street spaces to be managed under a separate development application);
- Loading/unloading facilities with access of Jacaranda Drive
- Vehicle access to the proposed new building from Jacaranda Drive; and
- Approximately 1000sqm of medical consultancy suites, comprising 8 medical suites in total.

2 DESCRIPTION OF MECHANICAL SYSTEMS

2.1 Relevant Codes and Standards:

All work will be designed to comply with:

- BCA and the NSW BCA Appendix.
- NSW Health Technical Series TS 11.
- Relevant Australian Standards.
- Relevant Authority Regulations.
- Consideration of The Director Generals Environmental Assessment requirements

Ref: MP 08-0170 dated 29 September 2008

2.2 Air Conditioning System:

Following types of refrigeration and air handling plants have been considered:

- Option A: Central chilled / heating water plants (consist of air-cooled chillers and gas-fired boilers) and multi-zoned type air handling units.
- Option B: Central chilled / heating water plants (consist of air-cooled chillers and gas-fired boilers) and various ceiling mounted ducted type fan coil units.
- Option C: Variable refrigerant flow (VRF) systems consist of air-cooled outdoor units and various ceiling mounted ducted type fan coil units.

These options have been assessed based on following criteria:

- System life.
- Energy efficient operation.
- Capital cost.
- Ease of service and maintenance.
- Flexibility for future changes.

OPTION B is recommended. The refrigeration plant will therefore consist of air-cooled chillers and gas-fired boilers located at plant rooms. The air handling plant will consist of ducted type fan coil units located in the ceiling space. Chilled / heating water pipework will reticulate chilled / heating water to these fan coil units.

2.3 Ventilation Systems:

- Basement car parks: Natural ventilation is considered achievable at all levels except the eastern part of B3 that will be provided with both mechanical supply and exhaust air systems.
- Hospital and medical suite areas: These areas will not satisfy the requirements for natural ventilation and therefore will be provided with air conditioning systems. The systems will comply with AS 1668.2 in regard to outdoor air quantities.
- Mechanical ventilation will be provided to areas as required by the BCA. Dedicated supply / exhaust systems will be provided to specific areas in the new hospital building.

2.4 Fire Stair Pressurisation Systems

It is envisaged that the number of rise in stories will be more than 2, stair pressurisation systems in accordance with AS 1668.1 will be provided.

2.5 Building Management System:

Existing Siemens BMS will be extended to cover the new equipment.

2.6 Energy Conservation:

The mechanical systems will incorporate the following features for ESD purposes where applicable:

- The mechanical ventilation systems to serve the eastern part of B3 car park will be provided with carbon dioxide sensors for monitoring of atmospheric contaminants.
- Out of hour control by the use of local control switches, motion detectors or via BMS.
- Variable speed drives on larger systems such as ventilation fans to reduce fan power.
- Gas source for heating rather than electric.
- Separate mechanical systems to serve intermittent use areas such as meeting rooms etc to allow shut down of the systems when rooms are not in use.
- Individual thermal zoning to allow zone temperature control without the need of re-heat.
- Selection of energy efficient fans and refrigeration plants.
- Heat recovery from central plant or condensate system.

3 DESCRIPTION OF ELECTRICAL, LIGHTING, FIRE DETECTION AND COMMUNICATIONS SERVICES

3.1 Relevant Codes & Standards

- BCA and NSW BCA Appendix.
- NSW Health Engineering Code TS11.
- Relevant Australian Standards.
- Relevant Authorities regulations.

3.2 Electrical Supply

The existing Kingston building has a 2 x 1500kVA chamber substation.

The main switchboard for the Kingston building is located in a dedicated room on Level B2.

We have been in contact with Energy Australia and the Maintenance Manager of the existing Kingston building and calculated that there is sufficient capacity on the existing high voltage and low voltage systems to supply the new building. Modifications to the existing main switchboard will be required to allow connection of the new supply.

3.3 Diesel Generator/Essential Services

The existing facility has a 600kVA diesel generator providing direct standby supply to the existing building main switchboard. The generator system load sheds automatically on power failure to maintain the main critical items of plant and areas of the building. The Facilities Managers then manually load shed or otherwise other areas of the building to suit operational requirements.

The Generator is a self contained attenuated unit located externally on the western side of the building.

All safety devices within the new building, as noted in AS3000-2007 including:

- Fire detection, warning and extinguishing systems,
- Smoke control and evacuation systems,
- Emergency lifts,
- Required general lights and power,

Will be connected to the system together with all relevant hospital life safety requirements/health care requirements to AS3009 and TS11-2007.

The generator has sufficient capacity to cater for the new building.

3.4 Metering

Generally, the new facility will form part of the existing metering arrangements. Facilities will be provided within the new switchboards and BMS to provide for tenancy metering of medical suites. All metering will be in accordance with the Supply Authority's requirements.

3.5 Main Communications

The existing incoming service to the Kingston building terminates in the main communications room on Level B1. We have established that there is sufficient capacity to expand the number of incoming lines. There will be a requirement for extension of the existing PABX telephone system, together with the communications data system. All communications work will be in accordance with AS3080, the ACMA Standards and Healthscopes Structured Cabling Standard document V1.6/2008.

The existing telephone system utilises the voice over IP CISCO hardware arrangement.

3.6 Miscellaneous Communications Systems

Expansion of existing Nurse Call, Duress Alarm, Security and Master Clock Systems will be incorporated into the new facility. MIMIC panels for this purpose will be proposed where applicable to simplify and integrate these systems. All these existing systems are addressable and integrated with the fire alarm/EWIS and Paging systems. This arrangement will be maintained within the new building.

3.7 Lighting

Lighting throughout the new facility will be in accordance with AS1680 together with NSW Health Code TS11. Energy efficient lamps and luminaires will be provided together with lighting controls incorporating dimming of corridor luminaires via a central BMS lighting controls connection. Different types of lamps and luminaires will be kept to a minimum and will, where viewed as appropriate, match the existing Kingston Building to ensure ease of maintenance of the facility.

Lamps with special high colour rendition and appropriate colour temperature characteristics will be provided to comply with health care/hospital patient care requirements.

3.8 Fire Alarm & EWIS

The existing fire alarm and EWIS panel is located in the foyer of the existing building. The existing systems are fully addressable. This will also be provided in the new building. We have concluded that MIMIC panels located in the new building can be connected to these panels.

The fire alarm system sends out signals to the remote fire monitoring station and to the building' paging system.

Fire smoke detectors, break glass, speakers and WIP phones will be provided throughout the new facility in compliance with AS1670.

3.9 Emergency Lighting & Exit Signs

Lighting to enable the evacuation of the building in the event of an emergency shall be provided to comply with the BCA and AS2293.

Central test switching of the new facility will be provided to comply with the latest Australian Standards. The incorporation of the "Running Man" style of exit sign will also be provided in the new facility.

3.10 Lightning Protection/Surge Protection/Body Protection

Due to the location of the building, a risk assessment and incorporation of a lightning protection system will be provided to comply with AS1768.

The new facility and upgraded existing facility will be provided with patient care body protection, bonding, earthing and surge protection systems to AS2500 and AS1768.

3.11 MATV System

The existing system and equipment is a standard analogue type with satellite dish on the roof. The room's TV control is integrated with the nurse call system handset.

Extension of the existing MATV system will be provided, with the control arrangements to match existing.

4 DESCRIPTION OF HYDRAULIC & FIRE PROTECTION SERVICES

4.1 Infrastructure (Sewer, Water & Natural Gas) and site constraints

The site appears adequately serviced by existing sewer, water, wet fire and natural gas mains.

We have been advised by Hunter Water Corporation (HWC) that amplification of the existing available sewer main (for a portion of piping downstream from the hospital) will be required to accommodate the proposed development.

Consideration will be given to the installation of non-metallic piping proposed to be installed in any unremediated contaminated ground and to the effects on piping systems being installed within a mines subsidence zone. Refer Appendix for Authority applications.

4.2 Regulations

The hydraulic services will be designed in accordance with the current versions of all relevant Australian Standards, manufacturers installation instructions and Authority engineering guidelines as a minimum and with due regard to cost viability.

4.3 Cold Water Service

The cold water supply will be fed from the existing water main in Lookout Road. Zone & Individual Backflow Prevention Devices will be installed throughout the new building to comply with the regulations.

Valves will be used to isolate groups of new fixtures in accordance with AS 3500.

4.4 Fire Hydrant Service

A branch connection will be extended from the existing site Fire Hydrant service(in the Kingston building) to provide coverage to the new building. Fire hydrant valves will be positioned within proposed fire stairs. Two external fire hydrants will be positioned at Jacaranda Drive level on the outer face of the external wall of the proposed carpark, for future access by Fire Fighting personnel , in the event of a bushfire.

4.5 Hose Reel Services

Hose reels shall be installed to provide coverage to the carpark levels of the building. Hose reels can be housed within pressed metal painted steel cabinets or recessed enclosures with full height doors. Hose reels to the Class 9a portions of the building and / or elsewhere may be deleted as a function of any fire engineering assessment.

4.6 Natural Gas Services

Where practicable a new service branch will be extended from the existing gas service feeding from Lookout Road. The existing gas meter will be upgraded as required by the supply authority to account for the new load. If provisional capacity exists in the existing hospital gas piping network a new service branch will be installed to the new extension.

4.7 Hot Water Services

The overall hot water demand of the site is not expected to be excessive. There are opportunities to provide a solar sourced (with natural gas backup for days without suitable sunshine) domestic hot water system utilising roof mounted collectors or heat pump technology.

Provisions will be incorporated to control hot water temperatures at fixture outlets in accordance with AS 3500.4 Section 1.9.

4.8 Sanitary Plumbing, Drainage & Vents

New sanitary fixtures and appliances will be connected to the existing sanitary drainage system servicing the site. Vent pipe risers from the sanitary drainage and plumbing systems will be terminated at roof level. Condensate drainage from mech. plant will also be connected to the existing sanitary drainage system.

4.9 Downpipes

Roof downpipes will be connected to the civil stormwater drainage system at ground level. Provisions for protection against the effects of hail and wind blown debris onto any new roofs will be considered.

4.10 E.S.D Initiatives

The proposed Hydraulic Services will comply with the requirements of ;

1. Section J of the Building Code of Australia i.e
 - a. Thicker insulation to hot water tanks and
 - b. Timer switches on boiling/chilled water units
2. The hot water system shall be designed to AS 3500.4
3. Rainwater harvested for irrigation system and washing down purposes
4. Installation of AAA rated tapware, dual flush toilets and waterless urinals
5. Use of natural gas as an energy source for hot water temp. boosting
6. Use of solar sourced heat pump technology for domestic hot water
7. Limiting water pressures to max. 350 kpa on the top level of the new building.

5 DESCRIPTION OF MEDICAL GAS SERVICES

5.1 Regulations:

The medical gas services will be designed in accordance with:

- AS 2896 – 1998.
- NSW Health Technical Series TS 11.
- All relevant Australian Standards.

5.2 Medical Oxygen:

The existing oxygen supply from bulk liquid oxygen tank will be extended to serve the new building complete with a non-return valve. A new standby oxygen cylinder bank (24-hour supply) is proposed on level B2 to serve the new building in the event the main oxygen supply fails.

5.3 Medical Suction:

It is envisaged that the existing medical suction plant at B2 will not be able to cope with the increased demand. A new medical suction plant is proposed at the new building plant room to serve the new building. Discharge pipe from the suction plant will be extended to roof.

5.4 Nitrous Oxide:

Existing Nitrous Oxide supply will be extended to serve the new building due to minimal increase in demand anticipated.

5.5 Medical Air:

The existing medical breathing air plant at basement B2 will be extended to serve the new building.

5.6 Two New Operating Theatres:

The following medical gas services will be provided:

- Oxygen.
- Medical air.
- Medical suction.
- Nitrous Oxide.
- Tool air (connection to existing supply).
- Tourniquet air (if required).
- Medical carbon dioxide (if required).
- Smoke evacuation system will be provided for the removal of smoke or plumes created during surgical procedures.

Each operating theatre is considered as one anaesthetising location and will be provided with individual valve box and alarm panel.

5.7 Medical Service Panels and Pendants:

Medical service panels and pendants will be provided by electrical services. The medical gas services trade will provide gas outlets including installation on the panels or pendants.

5.8 Valve Boxes and Alarm Panels:

Valve boxes and alarm panels will be positioned at the staff stations and will be connected to existing Siemens building management system for monitoring of the gas supplies.

6 DESCRIPTION OF WET FIRE SERVICES

6.1 Fire Sprinkler Services

A wet pipe fire sprinkler service will be provided connected to the existing Kingston building sprinkler system. Additional alarm valves/pumpsets will be provided as required.

It is anticipated that fast response sprinklers will be provided to patient care areas and standard response sprinklers elsewhere if required as a function of the fire engineering report findings.

6.2 E.S.D Initiatives

1. Use of epoxy coated sprinkler heads in lieu of the environmentally damaging chrome plated types.

7 DESCRIPTION OF LIFT SERVICES

7.1 Electric Traction Lift

7.1.1 General

Supply and install one (1) emergency and disabled capable motorroomless electric traction lift for passenger/bed transportation. Electric traction lift shall comply with: AS 1735 PARTS 2, 3 & 12 and BCA E 3.4.

Ground, first & second floors shall only be accessed by hospital personnel. Levels B3, B2 & B1 shall be accessed by the public.


7.1.2 Requirements

DUTY:	1.0 m/s
PASSENGER:	26 passenger/bed emergency & disabled capable lift
FLOORS SERVED AND TRAVEL:	6 levels.
SHAFT SIZE:	Clear internal dimensions – 3,500 long x 2,500 wide (One sided Lift).
STOPS AND OPENINGS:	Lift stops with openings on one side only.
Lift Motor Room:	No Lift Motor Room.
POWER SYSTEM:	Electric Traction.
CAR DIMENSIONS:	1,600 width, 2,700 depth and 2,700 height
PIT AND HEADROOM:	1,850 pit, 4,350 headroom
CAR DOORS:	Fully automatic, power operated, side opening, horizontal sliding, with a clear opening of 1,300 mm wide and 2100 mm high.

8 APPENDIX

Gas service application to AGL

0921 2552 @RF Ch2 30/11/2007 12:02 PAGE 4/4 RightFax



Application for Gas Connection - Industrial or Commercial Premises
AGL Retail Energy Limited ABN 21 074 839 464

Section 1. Customer Details

Title	Surname / Business Name	First Name	Date
	HEALTHSCOPE LTD		
Telephone and / or Mobile Number		Fax Number ("Important" Used for all correspondence)	
Important: A valid fax number will speed up the application and quoting process.			

Section 2. Site Details

Unit Number	Street Number	Street Name	Suburb
	14	LOOKOUT ROAD	NEW LAMORON HEIGHTS
Side of Street	N S E W	Nearest Cross Street	Postcode
<input checked="" type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W	0 Metres <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	JACARANDA DRIVE	
Note: Please advise how many metres and what direction your site is from the nearest cross street. What kind of commercial activity will take place on this site? HOSPITAL			

Section 3. Connection Details

Please tick only one box to advise what type of connection you require:

New Connection (Connection required in the street - no active gas on site or in building)
 Path valve connection is required in _____ street.
 This connection will be in the _____ (front / side / rear).

Meter Only (Active gas line on site - Please ensure gasfitter has confirmed the gas line is active to avoid delays)

Meter Upgrade - For meter Upgrades the meter number of the current meter is required: **5588423 T.B.C**

Boundary Regulator required (for sites with multiple units / shops and with no active gas line on site) **OR 1027640 # 8714281**

Section 4. Required Metering Pressure

Please consult your gasfitter or appliance manufacturer for the operating pressure of your appliances

	Regular Commercial	Medium Commercial	Industrial
Please circle one	1.3kPa	2.75kPa	5kPa 35kPa 100kPa

Section 5. Appliance Load Summary

*** Please note: The hourly rate (MJ/hr) is required for all applications. *** However estimates for usage patterns are OK

Appliance Name	Quantity	Hourly Rate (MJ/hr) (Each)	Hours Used Per Day	Days Used Per Week	Weeks Used Per Year	New / Existing
Example - Hot Water	1	356	2	6	48	New
1 HOT WATER	5	200	8	7	52	New
2 AIR COND. BOILERS	2	1000	6	7	52	New
3						
4						
5						
6						
7						
Total MJ/hr Required:		3000				

Section 6. Gasfitter Details


Name of Licensed Gasfitter:	Licence No:	Work / Mobile Number:	Fax (To be used if no customer fax)
Mark Marley	L 6839	0419278223	02.9437-1025

Conditions of Connection of Service

- Installation is subject to the availability of gas mains. Availability must be confirmed prior to commencement of installation.
- A path valve is required from a point 225mm outside the street property alignment.
- The customer is responsible for the accuracy of the information provided on this application.
- AGL Retail Energy Limited will facilitate your connection to natural gas through Agility Management Pty Ltd as soon as possible.

Office Use / Contract No.	Digs No.	Offer Number	Customer ID	Inquiry No.
Only				

Section 50 Application for Water & Sewer services to Hunter Water Corp.



APPLICATION FOR DEVELOPER SERVICES 2008-09

YOU MUST COMPLETE THESE FIELDS

HUNTER WATER CORPORATION
 PO BOX 5171 HUNTSVILLE NSW 2310
 36 HONEYSUCKLE DRIVE NEWCASTLE
 TEL: 1300 057 667 ABN: 46 228 513 446
www.hunterwater.com.au

APPLICANT/OWNER DETAILS PLEASE PRINT CLEARLY IN CAPITAL LETTERS:

OWNER NAME: Healthscope Ltd

APPLICANT: Erbas & Associates Pty Ltd

ADDRESS: Level 1, 15 Atchison Street
St. Leonards NSW POSTCODE 2

CONTACT NAME: Mark Hanley REF: EA 1281

TELEPHONE: BUS 02-9437-1022 FAX 9437 1025

EMAIL: mark@erbas.com.au

RECEIVING DETAILS

FILE NO:

CUST NO:

PAY TO UDS 4006072

DESCRIPTION OF LAND

LOT NO: PART LOT 2 SECTION: DP DP: 1080386

HOUSE NO: 14 STREET: LOOKOUT ROAD

SUBURB: NEW LAMBTON HEIGHTS COUNCIL AREA: NEWCASTLE

DESCRIPTION OF EXISTING DEVELOPMENT: EXTENSION TO EXISTING NEWCASTLE PRIVATE HOSPITAL - KINGSTON BUILDING. NO BEDROOMS IF AN EXISTING DEVELOPMENT

DESCRIPTION OF PROPOSED DEVELOPMENT

TORRENS TITLE SUBDIVISION: LOTS EXISTING: INTD: NO/D STAGE: OF

AND/OR DEVELOPMENT:

PROCESSING OF THIS APPLICATION MAY BE DELAYED IF ALL RELEVANT INFORMATION IS NOT PROVIDED - PROVIDE ADDITIONAL DETAILS ON A SEPARATE SHEET. A DIAGRAM DETAILING ALL RELEVANT INFORMATION SHOULD BE ATTACHED - PLANS SHOULD BE IN A FORMAT NO LARGER THAN A3 IN SIZE.

HUNTER WATER CORPORATION SERVICE / APPROVAL REQUIRED	YES <input checked="" type="checkbox"/>	FEE
COMPLIANCE CERTIFICATE UNDER SECTION 50 ACT	<input checked="" type="checkbox"/>	\$375
REVISION OF NOTICE OF REQUIREMENTS	<input type="checkbox"/>	\$316
PRELIMINARY SERVICING ADVICE	<input type="checkbox"/>	\$375
INDICATIVE DEVELOPER CHARGE	<input type="checkbox"/>	\$248
STATEMENT OF AVAILABLE PRESSURE NOMINATE 3 REQUIRED FIRE FLOWS: <u>20, 40, 60 L/S</u>	<input checked="" type="checkbox"/>	\$306
ADDITIONAL SEWER CONNECTION NOMINATE LOCATION ON PLAN	<input type="checkbox"/>	\$282
CONNECT TO CORPORATION STORMWATER CHANNEL	<input type="checkbox"/>	\$282
LARGE WATERMAIN CONNECTION - TEE & VALVE SIZE:	<input type="checkbox"/>	\$163
WATER / SEWERMAIN EXTENSION NOMINATE LOCATION ON PLAN	<input type="checkbox"/>	\$375
HYDRAULIC DESIGN ASSESSMENT < 80MM	<input type="checkbox"/>	\$268
HYDRAULIC DESIGN ASSESSMENT > 80MM	<input type="checkbox"/>	\$357
BOND ASSESSMENT & LODGEMENT FEE	<input type="checkbox"/>	\$1226
REMOTE FROM SERVICES CERTIFICATE	<input type="checkbox"/>	\$226
OTHER:	<input type="checkbox"/>	

APPLICANT SIGNATURE: Mark Hanley

DATE: 11.2.09

DELIVER TO: HUNTER WATER CORPORATION
 CUSTOMERS & COMMERCIAL DEVELOPMENT
 36 HONEYSUCKLE DRIVE NEWCASTLE

POST TO: HUNTER WATER CORPORATION
 CUSTOMERS & COMMERCIAL DEVELOPMENT
 PO BOX 5171 HUNTSVILLE NSW 2310

ENQUIRIES: bw_d_enquiry@hunterwater.com.au

PAYMENTS: see details on other side

CHARGES EFFECTIVE FROM 1 JULY 2008 TO 30 JUNE 2009 - GST DOES NOT APPLY TO THE ABOVE FEES.

CS3006.02008