OWEN FERGUSON HEALTH

SOP PRIVATE HOSPITAL LIFT SERVICES DA REPORT

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Lift DA Report

Introduction

General Description of the Project

The SOP Private Hospital is a new six storey building with basement and roof top plant room.

The basement will comprise a Kitchen, car park, stores and plant rooms.

The Ground floor level will comprise Administration, Hydrotherapy pool, Gymnasium, Main reception and Medical imaging

The first and second floors are both consultant rooms with some admin provisions on the second floor.

The third and forth floors are wards with an ICU ward on the forth level.

The fifth floor is operating theatres, recovery and CSSD.

Guidelines and Standards

The lift services shall be design and constructed in accordance with the requirements of the Building Code of Australia, Australian Standards AS1735 and the NSW Health Department Engineering Services Guidelines TS11.

Occupational Health & Safety (OH&S)

Adequate space will be provided for servicing of equipment and parts in plant rooms and the general areas. Equipment will be installed to ensure adequate serviceability without the need for unsafe work practices. Reference will be made to:

- Manufacturer's installation instructions
- Workcover requirements
- Australian Standards

Equipment

Standardisation of plant equipment shall be provided to reduce maintenance and numbers of different spare parts. Adequate space and access shall be provided to all plant equipment to avoid difficulties in servicing and replacing plant components.
Therefore, where possible, new plant for all sites will be of similar configuration, component manufacture and control sequence.

Objectives

The objective of this document is to outline the lift services requirements. Within health care facilities the objective of the lift system is to link the individual floors of the building to satisfy the functional requirements of the Hospital.

The lift system should provide work efficiency between floors and provide an acceptable level of reliability and service to the traffic loads and demands.

Services Description

Two bed passenger lift and two passenger stretcher lifts will be provided.

Bed Passenger Lifts

Bed / Passenger lifts shall be Orthopedic capacity type having a minimum clear size of 1800mm wide x 2600mm deep x 2500mm high and be provided with timber handrail all round and a skirting as specified in section 22 of the lift Code AS1735 Part 2.

Passenger Lifts

Passenger lifts shall have a minimum clear size of 1500mm wide x 1950mm deep x 2500mm high and be provided with timber handrail all round and a skirting as specified in section 22 of the lift Code AS1735 Part 2.

All lifts shall be provided with fire service control provisions.

LIFT SERVICES – SPACIAL REQUIREMENTS

The proposed lift services infrastructure will comprise four lifts with two lifts located at each end of the building all lifts will serve all floors.

The passenger lifts and the bed/passenger lift will have either roof top motor rooms or in shaft motors with the lift shafts going through to the plant room level.

Lift equipment schedules -

	Orthopaedic Passenger bed	**Standard Passenger lift**
Classification	Passenger / Bed	Passenger / Bed
Quantity	Two	Two
Type	Electric Traction	Electric Traction
Rated Capacity	2500kg (33 persons)	1350kg (18 persons)
Speed	1.6 m/s.	1.6 m/s.
Shaft Size	3000mm Wide 3100mm Deep	2600mm Wide 2400mm Deep
Minimum Car Size	1800mm Wide 2600mm Deep 2500mm High	1500mm Wide 1950mm Deep 2500mm High
Lift Car Ventilation	Yes.	Yes.
Protective Blankets for all walls	Yes.	Yes.
Door Opening	Four leaf	Four leaf

	1600mm Wide 2100mm High	1300mm Wide 2100mm High
Passenger Door Protection	Multiple Infrared Light Beam	Multiple Infrared Light Beam
Ceiling Boot for Transport of Goods	No	No
Overrun	5100mm internal ± 50mm	4600mm internal ± 50mm
Pit Depth	2050mm	1800mm
Travel	27500mm	27500mm
Floor Served Single Sided	B1 - 6	B1 - 6
Levelling Accuracy	± 6mm	± 6mm
Lift Motor Room	Required above the lift shaft or located within lift shaft.	Required above the lift shaft or located within lift shaft.
Controls	Microprocessor based, generic.	Microprocessor based, generic.
Car Control Panel	Two off located on the side walls 500 from front wall.	Two off located on the side walls 500 from front wall.
Motor System Rated Starts	Minimum 180 Starts per hour.	Minimum 180 Starts per hour.

Estimated Order of Costs

Vertical Transportation
The following costs have been forwarded onto the Quantity Surveyor.
Lift No1 and 2, two 33 passenger lifts serving level ground to 5. Order of cost - $780,000.00 plus GST

Lift No3 and 4, two 18 passenger lifts serving level basement to 5. Order of cost - $420,000.00 plus GST