

Emsworth Dental Surgery, 30 High Street, Emsworth

NOISE ASSESSMENT & MITIGATION SCHEME

Summary of proposals

First and Second Floor Spaces to be converted from Residential (C3) to additional space for Dental Surgery (E), with internal alterations.

Introduction

Helyer Davies Architects have been appointed by Emsworth Dental Surgery to design the conversion of the first and second floor spaces from residential to additional space for the Dental Surgery at 30 High Street, Emsworth.

As there is such high demand for their services, the Dental Surgery have already extended their opening hours, and are now using their current facilities to full capacity. The proposals are therefore to provide 2 additional Surgery Rooms, and additional staff rooms.

The following drawings accompany the application:

- 22073-01 Existing
- 22073-02 Proposed

Noise Assessment

Use Class

The Use Class will be limited to E(e) which has a significantly lower noise impact compared to other potential Use Classes e.g., restaurant, light industrial.

Noise In Use

When in use, the proposed new dental surgery rooms on the first floor level will generate reasonable amounts of internal noise due to drilling and other surgical machinery. The proposed works intend to mitigate such internal air-borne and structural-borne noise through increased insulation to the ceiling and walls.

There are no new dental surgery rooms on the second floor level, and due to the fact that the neighbouring buildings at no.s 28 & 32, are both lower than the site at no. 30 (i.e. neither of these buildings have a second floor), there would be no additional noise transmission from the use of the second floor.



Area of the High Street circled on Aerial Map of Emsworth (from Google Maps)



30 High Street on Aerial Map of High Street Area in Emsworth (from Google Maps)

Noise Assessment (Continued)

Noise of Construction

Any proposed building works are to be carried out during standard working hours, thus causing minimal disturbance to the adjoining residential properties. Due to the limited scale of the proposed development, noise due to construction works will be minimal and no heavy machinery will be required.

Noise from Plant

The new surgery rooms will utilise the existing air handling system, therefore causing no additional noise impact to the neighbouring properties.

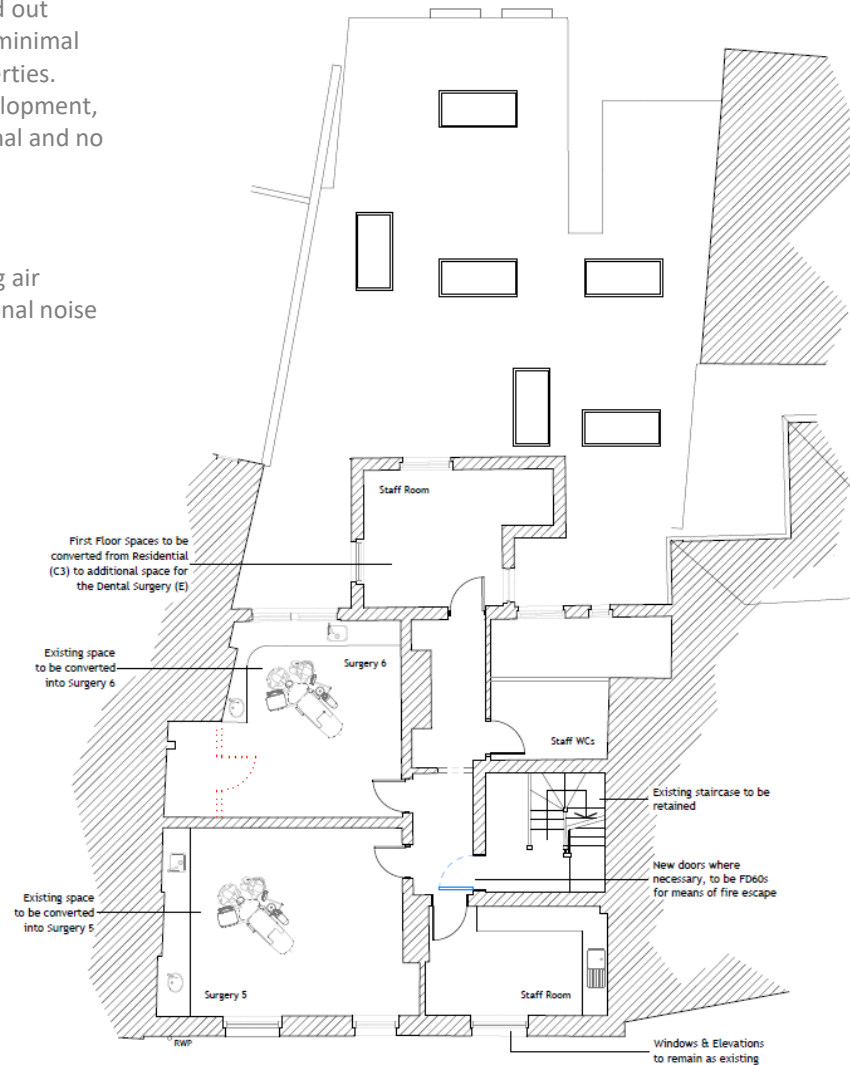
Mitigation Scheme

Days and hours of use

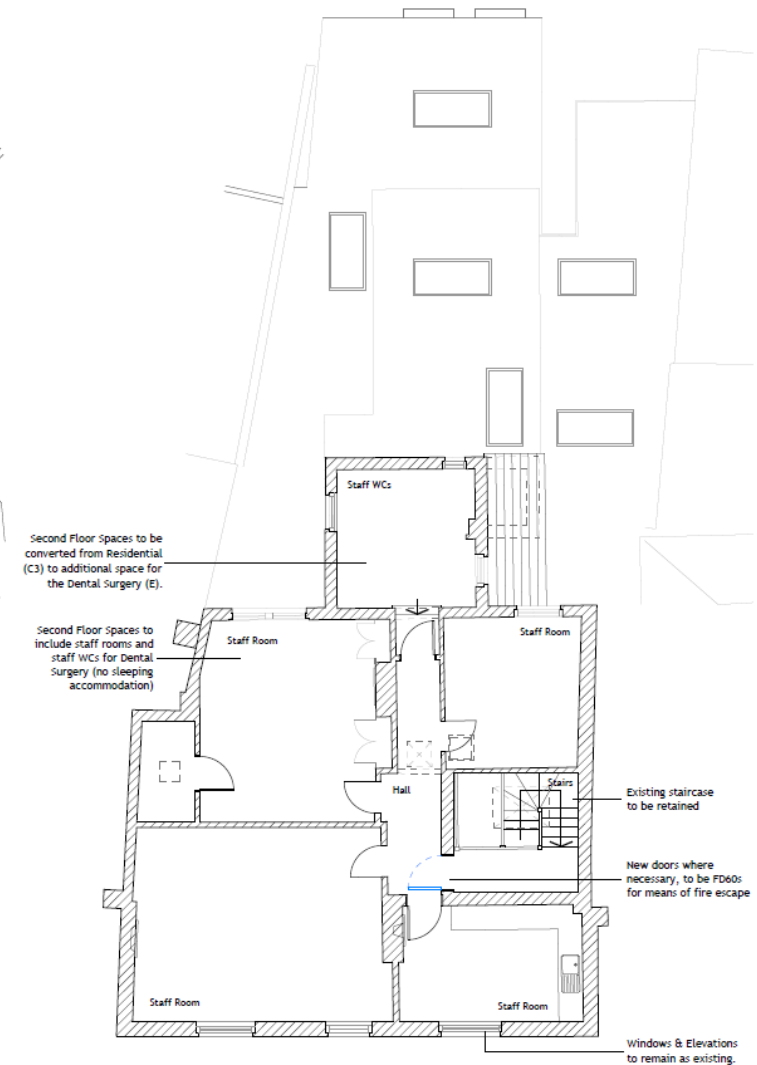
The proposed new surgical spaces on the first floor are to be used only within standard opening hours of the working week in line with the use of the existing surgery on the ground floor.

This means that any potential noise impact to the adjacent residential spaces will occur only at reasonable times of the day.

22073-02 Proposed Plans (dated August 2023)



Proposed First Floor *(not to scale)*



Proposed Second Floor *(not to scale)*

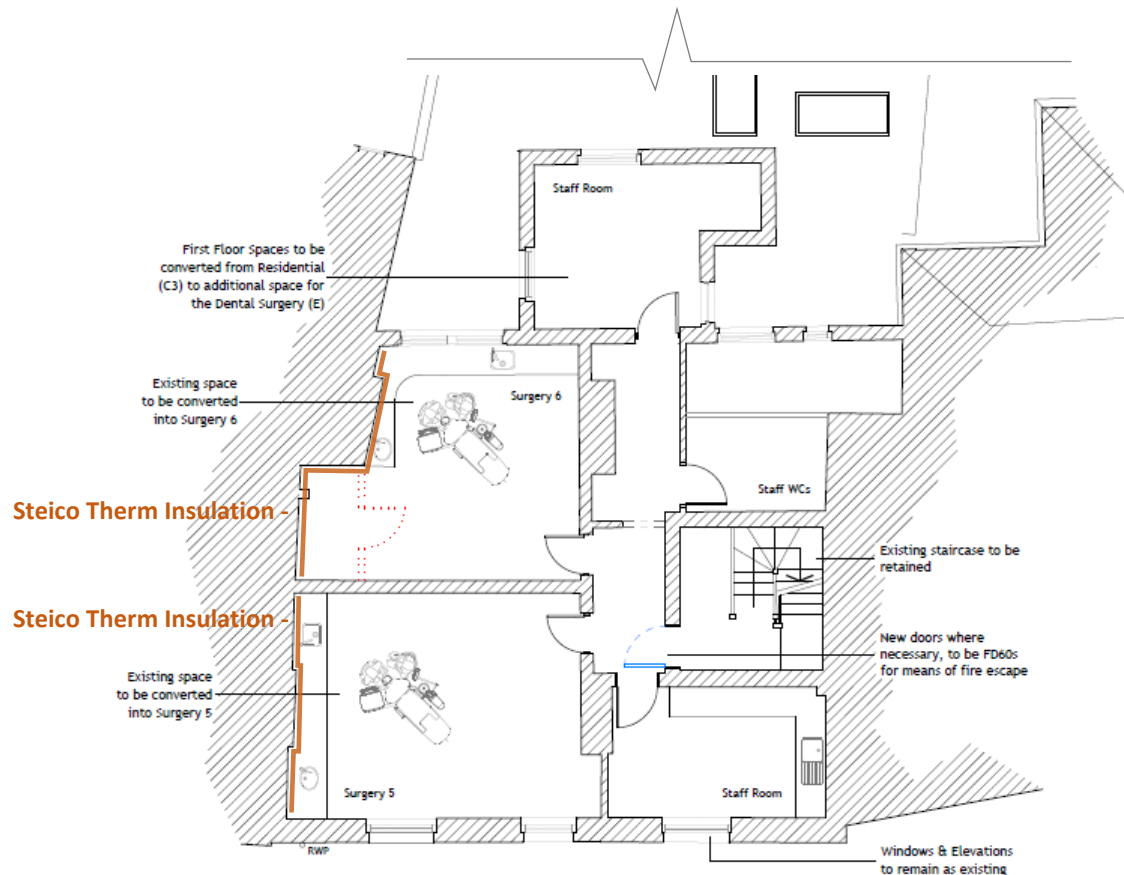
Mitigation Scheme (Continued)

Sound Insulation

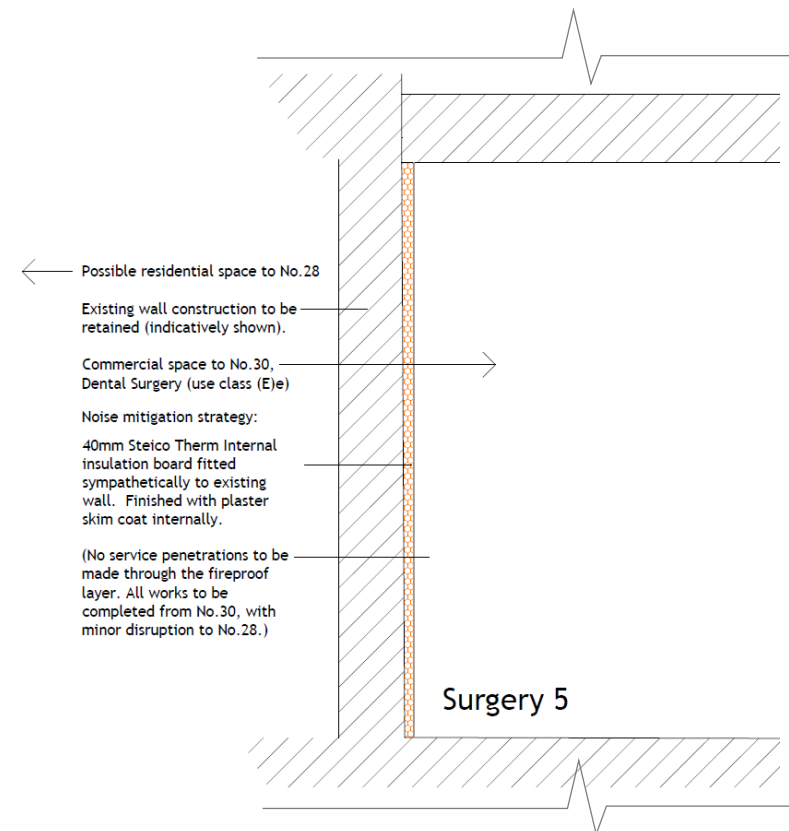
As shown In the example detail drawing A, the existing walls between the proposed new commercial spaces at first floor level of no. 30 and possible residential spaces on the first floor levels of no. 28 will be fitted with increase amounts of insulation in line with Approved Document E of the Building Regulations.

With consideration to the listed building, this will be 40mm of Steico Therm Internal insulation (wood-fibre board insulation), which is to be fitted sympathetically to the existing wall, to be fire resistant, and breathable.

22073-03 Proposed Plans & Detail A (November 2023)



Proposed First Floor (not to scale)



Residential / Commercial Lining Detail A (not to scale)