

## TECHNICAL NOTE

Prepared on behalf of Legal & General  
Affordable Homes

**ARDENT**  
CONSULTING ENGINEERS

AN EMPLOYEE OWNED COMPANY

<b>Project Name</b>	Hart Road, Thundersley
<b>Client</b>	Legal & General Affordable Homes
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## DOCUMENT CONTROL

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### Introduction

Ardent Consulting Engineers (Ardent) prepared a noise assessment<sup>1</sup> to support the planning application<sup>2</sup> for development of 46 dwellings (subsequently amended to 44 dwellings) on land to the rear of 248 Hart Road, Thundersley.

Subsequently, a planning application at the adjacent Cedar Hill School was submitted<sup>3</sup> for the construction of a new two-storey teaching block and removal of existing temporary classrooms plus associated works.

The noise assessment for the proposed residential development considered noise sources in the existing acoustic environment which comprised road traffic and activity at the school. Noise from the school was most significant around drop-off and pick-up times and when children were on the school playgrounds and fields. School activity noise was clearly audible at the western boundary of the site but was not particularly dominant above road traffic noise.

Ardent has been appointed to consider the potential impacts of the school plans in the context of the existing acoustic environment and the conclusions of the noise assessment.

### Assessment

Ardent has reviewed the school proposals for the new classrooms. The classrooms will be located to the south of the temporary buildings that are to be removed. The footprint of the temporary classrooms is shown restored as a grassed area on the plans. The new buildings appear to utilise part of the existing outdoor space at the school and whilst this is being re-provided in part on the footprint of the temporary classrooms the space is smaller, appears slightly more removed from the main playground area and is no closer to the boundary than the existing grassed areas. It is considered likely that the buildings will provide some acoustic screening benefit to the proposed residential properties although this is not assumed in the assessment or conclusions.

The excerpt plans below show the existing classroom layout on the left and new layout on the right, both shaded red. It is clear that the new building line is slightly further removed from the shared boundary than the existing temporary buildings.

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<sup>1</sup> Report reference 2200170-01, Noise Assessment Report, February 2022

<sup>2</sup> Castle Point planning reference: 21/1137/FUL

<sup>3</sup> ECC planning reference: CC/CPT/52/22

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A plant area and covered vehicle area are indicated on the proposed school plans. These could have the potential to generate noise at the closest properties to the east, however they are adjacent, and closer to noise sensitive teaching spaces and a library than they are to the proposed residential dwellings. The Castle Point Environmental Health Officer commented<sup>4</sup> on the school application and noted '*...there should not be any noise and vibration effects from mechanical plant no further consideration for this is taken*'. Taking these factors into account it is considered unlikely that noise would be a concern from the closest activities at the school.

### Conclusions

Ardent has reviewed the plans for Cedar Hall School and potential noise impacts. From the plans it appears that the school buildings are moving slightly further away and the location of the building is removing part of the playing field that is closest to the shared boundary. In addition there may be some screening benefit provided by the buildings.

Therefore the conclusions of the original noise assessment remain valid. Noise from Cedar Hall School will have a low impact on the new sensitive residential receptors.

<sup>4</sup> Castle Point EHO, Mrs J M Parker-East, 11/07/22