


MEMORANDUM

TO Eric Boatright, Utile
FROM Ioana N. Pieleanu, Acentech
DATE February 10, 2017
PROJECT Belmont Day School
SUBJECT Community Noise (Updated Report)
PROJECT NO 627634

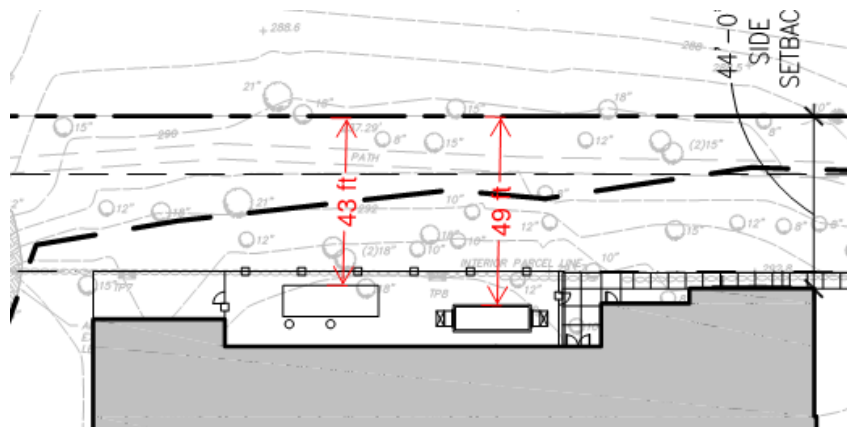
As part of the New Barn project at Belmont Day School, two air handling units (AHUs) are proposed to be located outdoors, 43 to 49 feet away from the school's property line. The selected equipment consists of two Valent units model VPRC. At this time the equipment was re-selected, and it emits the following sound power levels:

Frequency band (Hz)	63	125	250	500	1,000	2,000	4,000
AHU Casing noise (dB)	93	93	95	91	90	89	82

We understand that an open space/cemetery sub-district extends beyond this property line and, consequently, the noise levels at this property line should not exceed the following dBA levels, according to the Belmont Noise Ordinance:

- 55 dBA during daytime (7:00 AM to 10:00 PM)
- 45 dBA during nighttime (10:00 PM to 7:00 AM)

The equipment is at an elevation of about 294 feet, while the property line is at an elevation of 290 feet. The sound barrier planned in front of the equipment will be a couple of feet taller than the top of the equipment.



Location of AHUs relative to the School's property line

Under these conditions, we anticipate that the noise levels at the property line will be about 55 dBA, meeting the daytime ordinance, but not the nighttime. Nevertheless, we understand that this equipment will not operate at nighttime.

Feel free to contact me at 617-499-8069 or ipieleanu@acentech.com if you have any questions about the information above.

*** End of Memorandum ***