

Lam TUX Expansion Environmental Noise Model

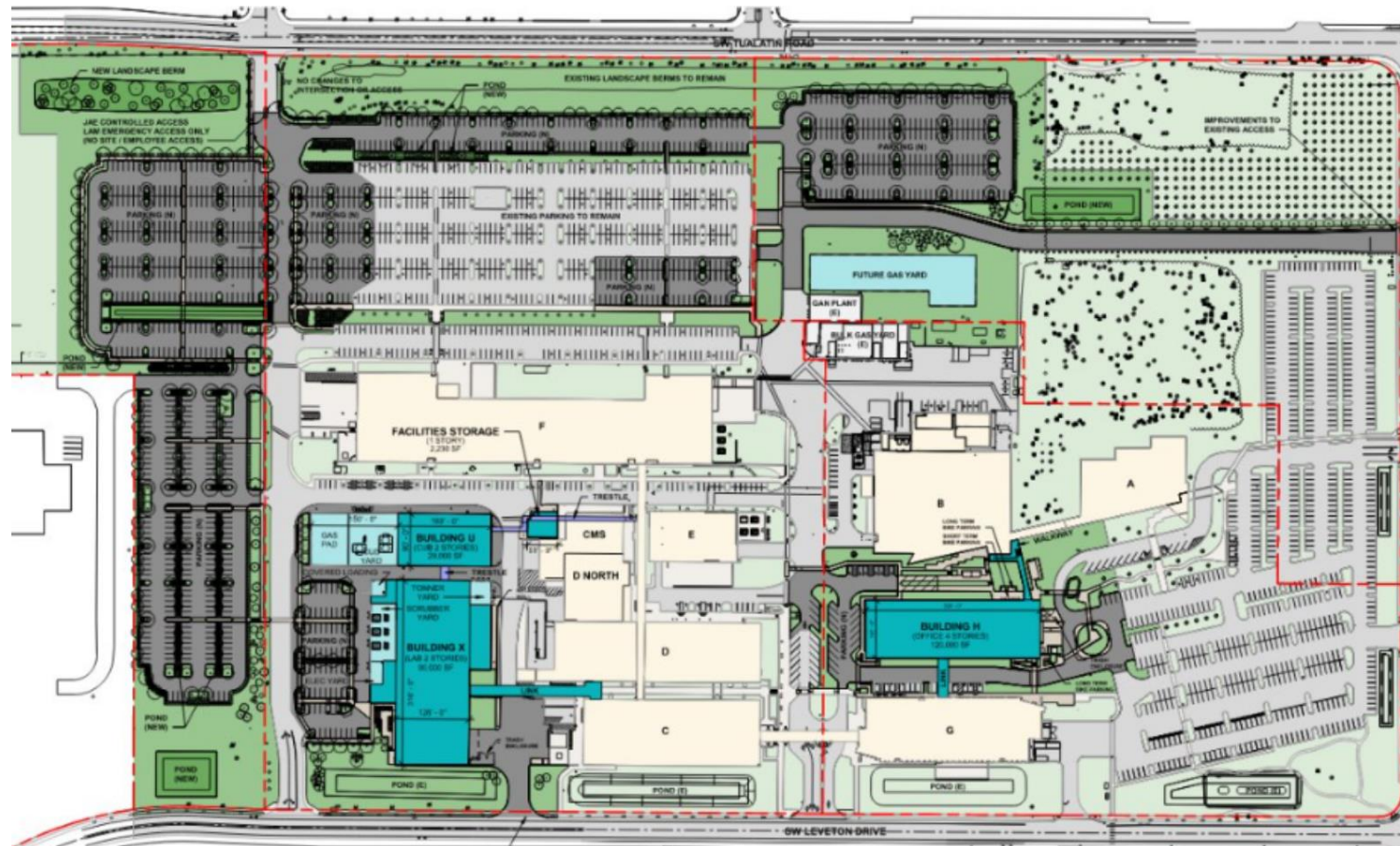
Presented to Mackenzie

CGA Project P25171

10 September 2025

A preliminary environmental noise model was constructed to evaluate the noise impact from major exterior noise sources associated with the new Building X and U facilities on the Lam Tualatin campus.

The noise impacts were evaluated using a computer noise model of the Lam campus, based on layout and information on proposed new major exterior mechanical equipment provided by the design team. Noise modeling was conducted per ISO 9613-2, the industry standard for calculating noise propagation from industrial sources such as these.



Noise Sources Included in the Model

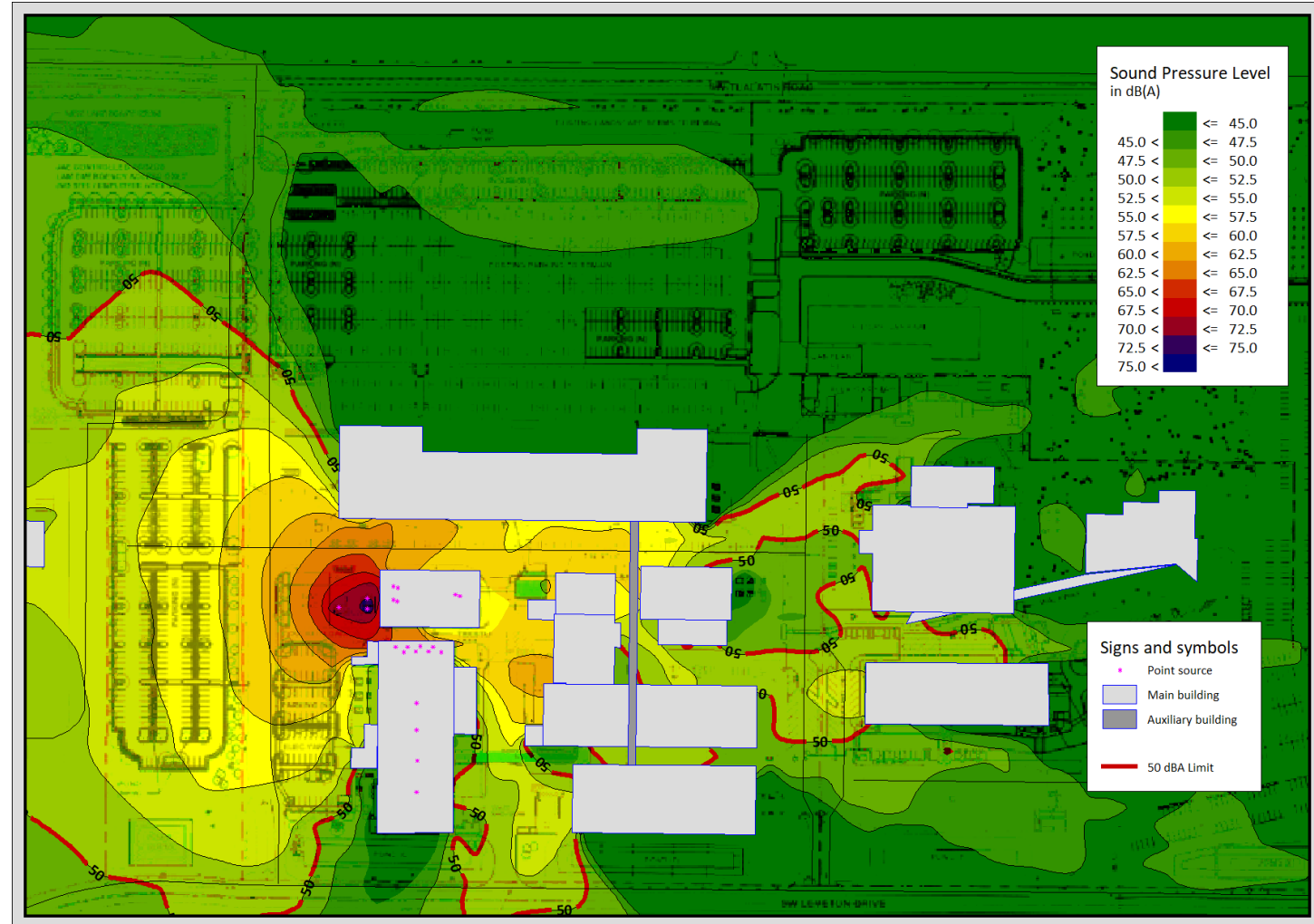
Only the following sources associated with Buildings U and X are included in the model.

- Building X Rooftop Scrubbed Exhaust Fans
 - Noise radiating from fan casing and exiting the top of the exhaust stack
- Building X 50 kcfm Makeup Air Handling Units
- Building U Exhaust Fans
- Building U Cooling Towers

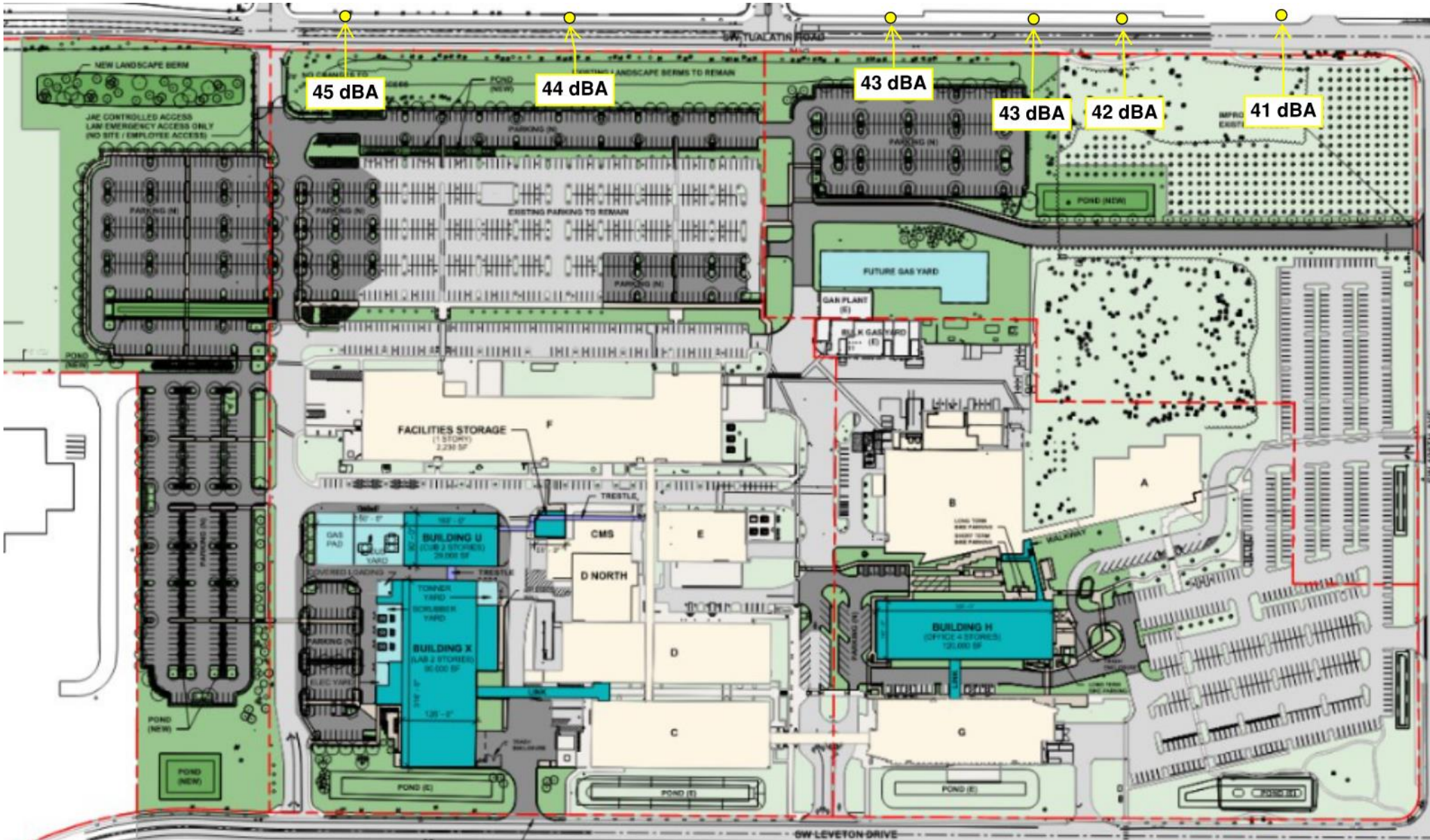
No existing sources, other sources that may be planned for TUX, or sources associated with other planned developments are included in the predictive model. Noise from traffic, construction, and other transient noise is also not included.

Predicted Noise Contours From New Equipment

- The contour map shows the predicted noise levels that will be generated by the new TUX sources. Predicted contours are generated at 5 feet above ground level
- The City of Tualatin Ordinance Limit of 50 dBA, which is applicable at noise-sensitive property lines, is shown as a bold contour.
- The noise levels due to the new sources are predicted to be well below 50 dBA at all points along the north property line.



Predicted Noise Levels from New Equipment



Predicted Total Overall Noise Levels

(Predicted Levels + Current levels per CGA's 9/4/25 Survey, incl. cricket noise)

