



May 31, 2023

Monica Striker
Capital Design Services
2101 4th Avenue E, Suite 202
Olympia, WA 98506

Re: Acoustical Report – AT&T PS25 Camas School Relo
Site: 706 NE 14th Avenue, Camas, WA 98607

Dear Monica,

This report presents a noise survey performed in the immediate vicinity of the proposed AT&T telecommunications facility at 706 NE 14th Avenue in Camas, Washington. This noise survey extends from the proposed equipment to the nearest properties. The purpose of this report is to document the existing conditions and the impacts of the acoustical changes due to the proposed equipment. This report contains data on the existing and predicted noise environments, impact criteria and an evaluation of the predicted sound levels as they relate to the criteria.

Code Requirements

The site is located within the City of Camas zoning jurisdiction on property with an R-7.5 zoning designation in use as a church. The nearest receiving properties, to the north and west, are zoned R-7.5 and are in Residential use. The nearest receiving property to the south is zoned DC and is in use as a church. WAC 173-60-030 identifies churches as Class B EDNA and residences as Class A EDNA.

The proposed new equipment consists of condensing units, which are expected to run 24 hours a day.

Under WAC 173-60-040, noise from equipment on a Class B EDNA property is limited as follows:

Class A EDNA Receiver: Noise is limited to 57 dBA during daytime hours. During nighttime, defined as the hours between 10 p.m. and 7 a.m., maximum sound levels are reduced by 10 dBA for receiving properties within Class A EDNA's. Since the condensing units are expected to operate 24 hours a day, they must meet the 47 dBA nighttime limit.

Class B EDNA Receiver: Noise is limited to 60 dBA 24 hours a day.

Ambient Conditions

Existing ambient noise levels were measured on site with a Svantek 971 sound level meter on May 30, 2023. Measurements were conducted as close to the proposed location as possible and the property lines in accordance with the State of Washington code for Maximum Environmental Noise Levels WAC 173-60-020. The average ambient noise level was 52 dBA.

Predicted Equipment Sound Levels

24-Hour Operation Equipment

The following table presents a summary of the equipment and their associated noise levels:

Table 1: Equipment Noise Levels

Equipment	dBA (each)	Quantity	Combined dBA @ 3.3 ft
Mitsubishi PUZ-HA36NHA5 Condensing Unit	53 dBA @ 3.3 ft	2	56
Total dBA (All cabinets combined)			56

Methods established by AHRI Standard 275-2010 and ASHRAE were used in predicting equipment noise levels to the receiving properties. Application factors such as location, height, and reflective surfaces are accounted for in the calculations.

The condensing units will be located at grade and approximately 6'-0" above grade on the south side of the proposed new tower. The nearest Class A EDNA receiving property is approximately 110 feet north of the equipment, and the nearest Class B EDNA receiving property is approximately 111 feet south of the equipment. The following table presents the predicted sound levels at the nearest receiving properties:

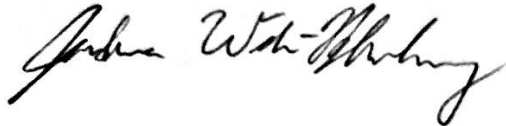
Table 2: Predicted Noise Levels: Proposed Equipment Cabinets

Line	Application Factor	Class A EDNA N	Class B EDNA S
1	Sound Pressure Level at 3.3 ft (dBA), Lp1	56	56
2	Noise Amplification – Equipment Near Reflective Surfaces	+3	+3
3	Noise Reduction – Proposed New Tower	-18	0
4	Distance Factor (DF) Inverse-Square Law (Free Field): $DF = 20 \cdot \log(d1/d2)$ (110 ft)	-30 (110 ft)	-31 (111 ft)
5	New Equipment Sound Pressure Level at Receiver, Lpr (Add lines 1 through 4)	11	28

As shown in Table 2, the sound pressure level from the proposed equipment is predicted to be 11 dBA at the nearest Class A EDNA receiving property to the north which meets the 47 dBA code limit. The sound pressure level from the proposed equipment is predicted to be 28 dBA at the nearest Class B EDNA receiving property to the south which meets the 60 dBA code limit. Noise levels at other receiving properties, which are further away, will be lower and within code limits.

Please let us know if you have questions or need further information.

Sincerely,
SSA Acoustics, LLP



Joshua Wah-Blumberg
Technician

Reviewed by:



Steven Hedback
Acoustical Consultant

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