

Construction Vibration

Effects

- **Non-Blasting Operations –No Effects anticipated**
 - Vibration Impact Zone during typical operation of a vibratory pile driver is 22 ft.
 - Vibration Impact Zone during operation of a hoe ram is 15 ft.(The closest buildings are outside of the above distances)
- **Blasting Operations**
 - Construction vibration would be perceptible adjacent to construction activities, but would not damage buildings

Mitigation

- Use of impact and drilling equipment and blasting would be prohibited between 9:00 PM and 7:00 AM.
- Direct contractor to use pre-auguring equipment to reduce the duration of impact or vibratory pile driving when reasonable.
- Develop a blasting program that accounts for distances to buildings and their existing conditions.
- Conduct pre- and post-construction vibration inspections on structures within a defined distance from vibration-producing operations. This distance would be defined during final design. Damages attributable to vibrations from blasting, if any, would be addressed by the contractor.



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