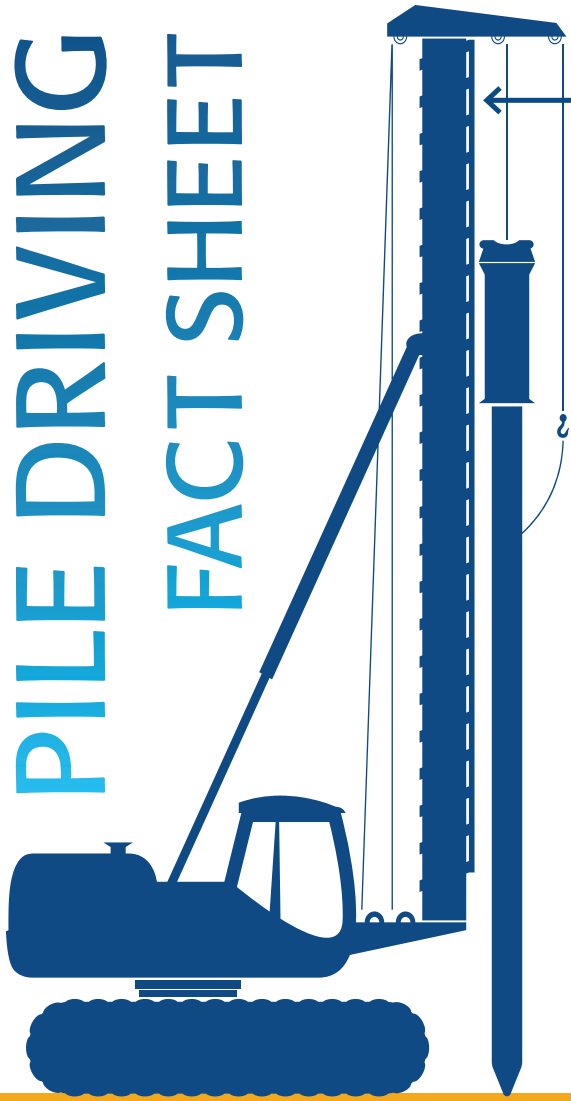


# PILE DRIVING FACT SHEET



A pile driver is a device used to drive piles (poles) into soil to provide foundation support for buildings or other structures.

## PERMITTED PILE DRIVING HOURS

**MONDAY – FRIDAY  
7AM – 6PM**

The NYC Noise Code defines the hours when construction may occur. A New York City Department of Environmental Protection (NYCDEP) General

Construction Noise Mitigation Plan for typical daytime work is posted on site at all times. While most construction activity occurs on weekdays during the hours of 7AM-6PM, emergency work necessary for public safety, or work that cannot be performed during normal work hours, may occur after hours or on weekends. Construction noise limits for this project during weeknights and anytime on the weekends were adopted from the NYCDEP noise code regulation and the Federal Highway Administration.

## NOISE MITIGATION PLANS

Contractors must develop a noise mitigation plan prior to the start of work and every construction site must have a noise mitigation plan on location. Specific mitigation plans for the redevelopment program include:



- Reducing the impact sound of the ram hitting the pile cap by placing a resilient pad (pile cap cushion) in the anvil chamber
- Pre-augering the pile holes to loosen the soil, which reduces noise by requiring less force and fewer impacts to install the pile
- Using a smaller pile driver if feasible, preferably hydraulic rather than diesel
- Utilizing temporary noise barriers whenever necessary
- Routing trucking and delivery vehicles away from sensitive neighborhoods
- Notifying the public of the construction schedule and operations

If noise complaints are received, an inspector will ensure the contractor has posted the plan and that it is being followed. This will determine whether or not the plan needs modification.

## VIBRATION

Vibration monitors are set up at the required locations at the start of work. A monitoring technician is present at the site at all times during the vibration-producing activity and can move the monitors as required as work locations change. The technician keeps a log of the vibration producing activities and can provide real-time data to the equipment operators.

Pile Driving vibration monitoring and construction vibration monitoring provides assurance to the contractor and the owner that pile driving operations are executed within acceptable levels of vibration. This makes sure that risk is minimized and damages to adjacent structures or equipment can be avoided.



## Construction vibration limits for this project were adopted from three relevant sources:

1. U.S. Bureau of Mines (USBM) guideline intended to avoid minor structural damages.
2. Federal Transit Administration (FTA) guideline also intended to avoid minor structural damages.
3. FTA guideline intended to avoid human annoyance.

## CONTACT US

Questions or concerns about noise and vibration impacts or if you believe you have airport construction related damage to your property, please contact Shanel Thomas-Henry at 718-533-3626 or [ssthenry@panynj.gov](mailto:ssthenry@panynj.gov).