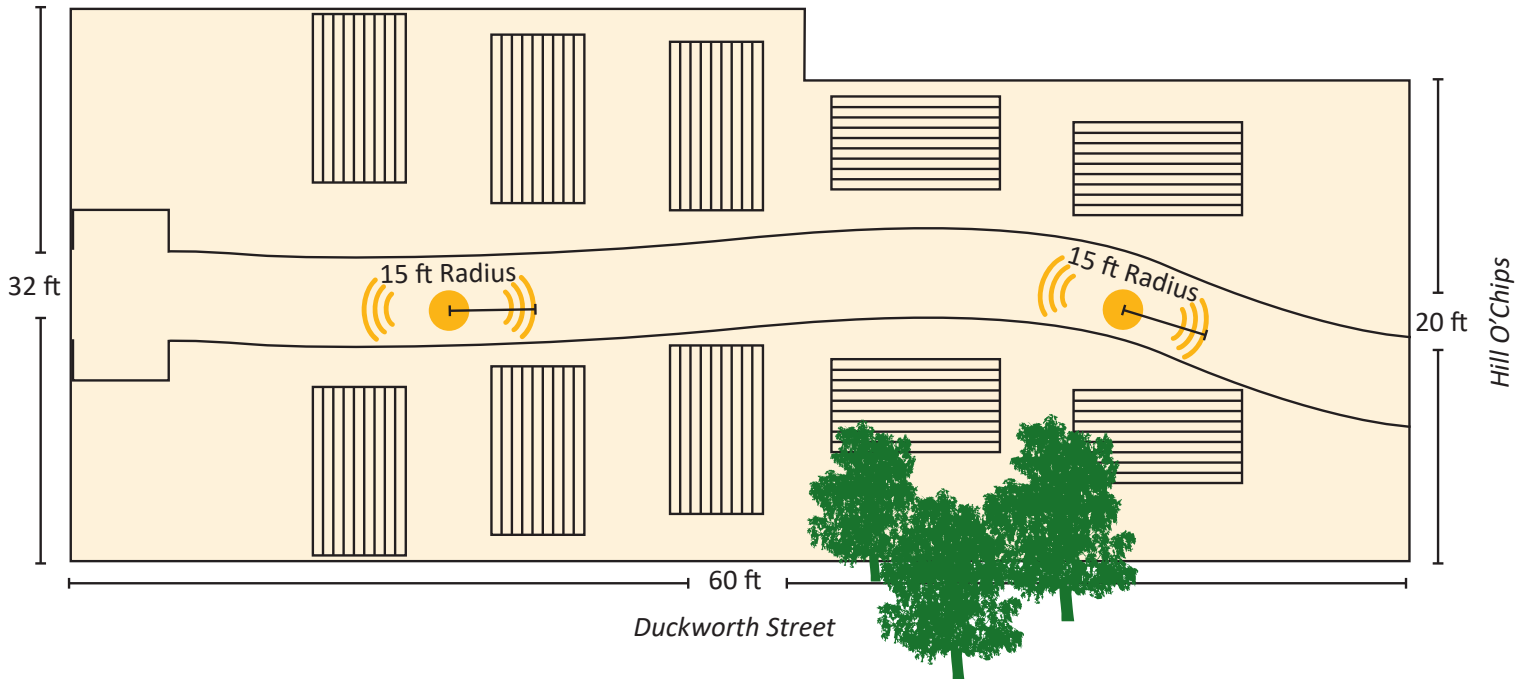


BREWDOCK OUTDOOR SPEAKERS

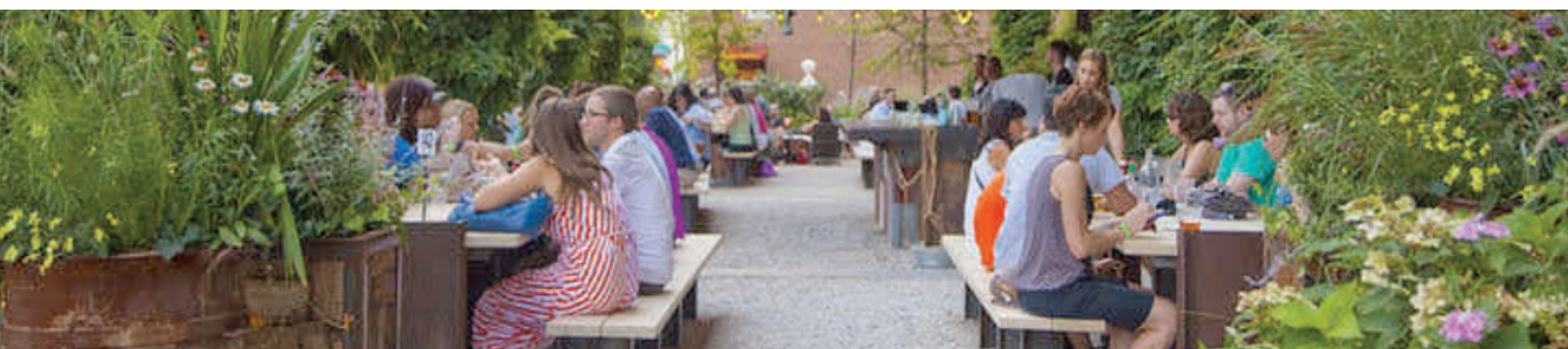


GOAL

Zero noise pollution from outdoor speakers

BEER GARDEN INFORMATION

- Beer Garden to be used ~45 days of the year, weather dependent. Speakers will only be turned on while Beer Garden is in use.
- Speaker placement is ~115 feet from nearest resident
- Beer Garden is sunken into Duckworth St. with a 6' fence to be erected around perimeter to further enclose the area
- Beer Garden will utilize smaller, less powerful speakers



PLAN

Speaker volume to be kept to 70db or less

- Quiet library is ~45db
- Quiet office is ~50db
- Normal conversation is ~60db
- Busy street/alarm clock is ~70db
- A shower is ~70db
- A toilet flushing is ~75db
- A Motorcycle is ~100db
- A Live rock concert is ~110db

Minimize travel distance from speakers to furthest patron to minimize decibel levels

- Length of Beer Garden is 60 feet. Two speakers to be used, each will cover a 15-foot radius.

Downfacing speakers with dispersion angles kept inside Beer Garden perimeter

- Speakers to be hung from pergola, facing downwards
- Horizontal dispersion of proposed speakers is 80-110 ° which does not exceed beer garden perimeter

Sound dampening will take place through various factors

- Ground (speakers facing downwards)
- Foliage, embankment, and fencing
- Brewdock building
- Quality Hotel
- Street traffic (Duckworth St. is located between Beer Garden and closest residents)
- A. Harvey Marine Base (noise pollution from dock)

DIFFERENCES FROM EXISTING ESTABLISHMENTS

Bannerman Brewing:

- Large garage door connects tap room to outdoor space, meaning indoor music is easily projected outdoors
- Speakers are ~30 feet from furthest patron
- Outdoor space is located ~35 feet from nearest residence
- Garage door is regularly open, even when deck is unable to be used, with no ability to control the level of sound that escapes to nearby residents. Brewdock's Beer Garden will only have music during the days that it is open.
- Bannerman has powerful indoor speakers

CONTROLLING NOISE POLLUTION

We understand the concern of the neighboring residents regarding the sound levels given the previous businesses that have occupied 85 Duckworth Street. Please take the time to review the points below that have been incorporated in our noise pollution plan:

- Loud music and bright lighting are against what Brewdock represents. The primary reason for choosing the east end of Duckworth as Brewdock's location is because it is a more mature area. We want to create an inviting and relaxing space for people to enjoy while being outside.

- Brewdock has been consulting with Tucker's Electronics to ensure there is no noise pollution to nearby residents. We will be using directional speakers with a dispersion rate of 80-110° in the Beer Garden. These strategically positioned speakers do not have a high output as sound is only pushed in the direction they are facing. Each speaker will be less than 15 feet from the furthest patron to minimize the sound level necessary to reach that patron. All speakers will be in a downfacing position so only our customers will be able to hear ambient music which will be used for background purposes only.
- The positioning of Brewdock's Beer Garden will limit noise pollution from Duckworth and any adjacent streets. The garden is positioned on a sunken lot from Duckworth. Our immediate surroundings will include the Brewdock building, the Quality Hotel, as well as a 6-foot fence installed along Duckworth Street for us to comply with NLC regulations.
- The Beer Garden will be open ~45 days during the warmer months, weather dependent. Music will only be present in the Beer Garden during days when it is open.
- Our application initially stated that speakers would be operational until 11pm. This was never our intent and was only provided as part of the application due to 11pm being the noise by-law. The Beer Garden will close each night by 9pm with all outdoor speakers being shut down at or before that time.

FINANCIAL IMPACT

Brewdock is built on the concept of supporting local. Because of this, our input costs are ~2.5-5x greater than if we were to use macro suppliers. To compensate for the reduced margins, due to our higher input costs, we must sell volume. The Beer Garden affords us the opportunity to increase our capacity, therefore increasing the volume of sales. A major piece of our image is the uniqueness of our Beer Garden. A major factor in the success of the Beer Garden is its atmosphere, and a critical input to the success of the atmosphere is music. Outdoor speakers may seem like a small item, but the effect they could have on the success or failure of our business is profound. The residents of the east end of Duckworth St. come first. We believe that the proposed restrictions below protect the residents from all possible speaker noise pollution.

PROPOSED SPEAKER RESTRICTIONS

- Speakers to not exceed 70db
- Speakers to be turned off by 9pm
- Speakers only to be turned on when Beer Garden is in use
- Speakers are to be downfacing, towards patrons
- Speaker disbursement angle is not to exceed Beer Garden perimeter
- Speakers are not to be more than 15 feet from the furthest patron