Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/16/14

Exhibit F

Sound Pressure Levels

Moonlighting Production Services LL

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Date: March 11, 2014

To: Chris Thompson
Forefront Partners

Re: Forefront Concert Venue Sound Pressure Levels

The following data is intended to present expected sound pressure levels at various points on and adjacent to the proposed Forefront property resulting from concerts held at the outdoor amphitheater. Significant variables (including, but not limited to) stage placement, venue acoustics, weather conditions (wind, temperature, humidity) and temperature gradients, are not factored into these equations.
The base line for these calculations is concerts with 100dB, 95dB and 90dB (A-weighted) measured SPL at the FOH mix position 75' from stage. These measurements are typical for a "moderately loud" outdoor concert. The mathematical model used is Inverse Square Law:

20*log(D2/D1)= X where "D1" represents distance from center stage to FOH Mix, "D2" represents distance from center stage to perimeter location and "X" represents the reduction in dBspl from "D1" to "D2".

Using inverse square law calculations one can expect the following resulting SPL in each given location/distance from a concert measuring 100dBA at the FOH mix position:

Location (dist.)	**Resulting SPL**
Railroad Tracks (1100')	80.9 dBA
Bus/Train Terminal (1500')	74.0 dBA
Existing Hotel (2150')	62.7 dBA
Sewall Street (1850')	67.9 dBA
Fore River Parkway Entrance (1750')	69.6 dBA
North End of Property (1750')	69.6 dBA
Nearest Residential Property (2140')	62.9 dBA

Using inverse square law calculations one can expect the following resulting SPL in each given location/distance from a concert measuring 95dBA at the FOH mix position:

Location (dist.)	**Resulting SPL**
Railroad Tracks (1100')	75.9 dBA
Bus/Train Terminal (1500')	69.0 dBA
Existing Hotel (2150')	57.7 dBA
Sewall Street (1850')	62.9 dBA
Fore River Parkway Entrance (1750')	64.6 dBA
North End of Parking Lot (1750')	64.6 dBA
Nearest Residential Property (2140')	57.9 dBA

Continued

Using inverse square law calculations one can expect the following resulting SPL in each given location/distance from a concert measuring 90dBA at the FOH mix position:

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Location (dist.)	**Resulting SPL**
Railroad Tracks (1100’)	70.9 dBA
Bus/Train Terminal (1500’)	64.0 dBA
Existing Hotel (2150’)	52.7 dBA
Sewall Street (1850’)	57.9 dBA
Fore River Parkway Entrance (1750’)	59.6 dBA
North End of Parking Lot (1750’)	59.6 dBA
Nearest Residential Property (2140’)	52.9 dBA

**Attention to sound system, architectural and landscape design will likely result in significantly lower “real-world” measurements at each location.