Cherokee Film Dubbing/Mixing Studio Owner’s Project Requirement

January 25th 2024

1. **Overview and Scope**
   1. Executive Summary
      1. Cherokee Nation Cultural and Economic Development, LLC – Cherokee Film is constructing a Dubbing/Mixing Studio within the existing Owasso Studio. This audio studio will be used to dub various projects in the Cherokee Language in collaboration with the CN Language Department.
   2. Objectives
      1. To design and construct a state-of-the-art dubbing studio and Dolby Atmos mix stage that meets the highest standards of audio production, The facility should be equipped with advanced technology to support a wide range of audio post-production services, including voice-over recording, sound editing, sound mixing, and Dolby Atmos mixing. The project aims to create an environment that fosters creativity, ensures optimal acoustic performance, and delivers superior sound quality that enhances the audience’s auditory experience and meets the evolving demands of the industry.
      2. Ensure a seamless integration with the existing property to maintain operational efficiency.
   3. Key Requirements
      1. Sound Lock Room
         1. The sound lock room is designed to buffer audio sensitive zones from non-audio sensitive zones. The control room will serve as a buffer with a sound lock installed between the control room and the tracking room. Sound lock rooms must avoid proximity to any areas that are generally noisy, i.e., breakrooms, lobbies, restrooms, etc..
         2. While the purpose of the sound lock room is to provide a sound barrier from one area to another, it also serves as a transitional space, and must be designed to efficiently accommodate the expected traffic flow, ensuring smooth and uninterrupted passage.
         3. One (1) sound lock room will be positioned as the access point to the studio area. While a singular (externa)l entrance may be sufficient, the transitional space must consist of 2 separate entrances; one to access the control room and one to access the mixing stage.
         4. One (1) sound lock room must be constructed between the control room and the tracking room.
      2. Control Room
         1. The control room is where the Audio Engineer, Director and various other personnel will be located during recording sessions.
         2. A window must be included between the control room and the tracking room, allowing visibility of talent during (tracking) audio recording.
         3. This room must accommodate a minimum of 6 (six) people, approximately 150 ft2 (minus the space devoted to the sound lock room).
      3. Tracking Room
         1. The Tracking room is where audio is recorded.
         2. This room is approximately 150 ft2 (minus the space devoted to the sound lock room).
      4. Mixing Room/Stage
         1. The mix stage is where editing and mixing of audio tracks is performed by the sound mixing engineer.
         2. The mixing room must meet all Dolby Atmos requirements, adhering to the “Dolby Atmos Mix Room Design Guidelines” and “Dolby Atmos Studio Technical Guidelines”.
         3. This room is approximately 575 ft2 (minus the space devoted to the sound lock room).
         4. The mixing stage must pass the Dolby Certification process.
   4. Budget Considerations and Limitations
      1. Design Budget
         1. Not defined at this time
      2. Construction Budget
         1. Not defined at this time
      3. Equipment Budget
         1. Not defined at this time
   5. Project Team and Role
      1. Jennifer Loren - Owner
      2. Timothy Rogers – Post-Production Manager
      3. Jeremy Grodhaus – Sound Engineer
      4. Austin Parker – Video Production Manager
      5. JoDawn Goodman – CED Strategic Operations Manager
      6. Zach Thomas – Project Manager
      7. James Carter – Sr Project Manager
2. **General Requirements**
   1. Construction
      1. Construction of the walls, ceilings and floors must be executed with meticulous attention to sound optimization, tailored to the unique purpose of each room’s intended function, preventing sound from escaping the room but also ensuring outside noise does not interfere with the sound inside the room.
      2. All rooms must contain high, slanted ceilings, asymmetrical walls and multiple irregular surfaces to ensure optimal sound ratings.
      3. Wall and ceiling construction must be sturdy and capable of accepting additional soundproofing features while maintaining optimal space requirements.
      4. In wall insulation and air gaps between two walls are recommended to acquire a 3 PFC.
      5. Natural materials are recommended; the thicker and denser the material, the more sound it will absorb.
      6. Proper stud placement must be considered based on sound optimization.
      7. Ideally, the walls will be filled with damping compound and acoustical caulk will be used to fill any cracks or seams.
      8. The fully constructed rooms with acoustical treatment installed must maintain the optimal ceiling height of 11-13 ft.
      9. A sound measuring software approved by Cherokee Film must be utilized to measure the sound rating.
      10. All rooms must have an ambient decibel rating of 26-30.
3. **Space Plan and Functional Uses**
   1. Location
      1. Cherokee Film Studio - Owasso 16990 E 116th St North, Owasso OK, 74055
      2. Dubbing Studio to be constructed on the mezzanine, in an allocated space of approximately 35’x25’
         1. Mezzanine is constructed out of structural steel, metal decking and concrete slab
4. **Design Process**
   1. N/A at this Time
5. **Heating, Ventilating and Air Conditioning**
   1. Ducting and mechanical systems will need sound mitigating qualities.
6. **Electrical Systems**
   1. Equipment will need to take in noise and interference mitigation that may be required by the studio equipment.
7. **Commissioning**
   1. Dolby Atmos Certification?
8. **Sustainability**
   1. Will need to determine and identify if there are requirements or certification that need met to be considered a state, nation or industry standard dubbing studio.
9. **Building Envelope**
   1. N/A at this time.
10. **Plumbing Systems**
    1. N/A at this time
11. **Fire Protection and Alarm**
    1. Note defined at this time
12. **Data and Communications**
    1. Will provide CNB IT Standards during design
13. **Security, Access and Surveillance**
    1. Will provide CNB Security/Surveillance Standards during design.