

From the Essex County Open Space & Recreation Advisory Board Meeting
MEETING MINUTES July 8, 2019

\$600,000.00 for Design Services for the New Amphitheater at Turtle Back Zoo

Kate Hartwyk discussed with the Board the new amphitheater at the Turtle Back Zoo. The design services will include the following:

- The amphitheater must adhere to all federal, state and local laws (i.e. U.S.D.A. and U.S. Fish & Wildlife regulations, N.J.D.E.P. standards, local building codes, etc.) and meet or exceed standards set forth by the Association of Zoos and Aquariums (A.Z.A.), Zoological Association of America (Z.A.A.), and American Humane.
- The consultant shall design an amphitheater stage with a main pool to be approximately 150,000 gallons. The front wall of the pool shall be acrylic window facing the seating. The amphitheater shall comfortably seat 300 guests. There shall be a roof structure covering the seating as well as the pool and stage.
- The stage structure shall be engineered to safely accommodate rigging for lighting and sound.
- Stage set shall include but not limited to LED panel screens with artistic design, various entry points for access, various themed props, custom theatrical sound and lighting package.
- A control booth will be located at the back of the amphitheater that shall be designed to control all aspects of lighting, sound, and special effects. The booth shall have adequate HVAC for heating and cooling.
- Four additional elevated stage platforms will be located throughout the amphitheater connected by a chute system and include a stage lift in each.
- There shall be a 5,000 sq. ft. animal support building consisting of various animal habitats that may include but not limited to aquatic and terrestrial environment, indoor/outdoor yards, food preparation space, office, garage with loading dock, sky lights, interactive guest space, crate storage, walk in freezer and cooler, restroom/scuba locker room.
- HVAC system within animal support building shall provide 10 air changes per hour and will be adjustable within the various habitats to accommodate particular species.
- Two additional outdoor above ground circular pools will be connected to the animal support building. They shall be covered with shade structure and include adequate animal separation and housing. Each pool will hold approximately 40,000 gallons.
- A qualified sub consultant will design life support systems and have at least 5 years verifiable experience.
- Animal support building as well as life support systems will be connected to a generator that will adequately power all systems if there is a loss of power.
- Life Support Systems (LSS) may include but not be limited to sand filtration, protein fractionation; ozone disinfection, pool chiller and heater and will be housed in a separate room.
- A sound engineer shall provide all required to ensure that the amphitheater is adequately engineered for vocal and musical performances to maximize the listening experiencing for the audience.
- A theatrical design sub consultant will design lighting, special effects, and sound coordination for performance.
- The consultant shall include the necessary provision for the demolition and/or removal any exhibit within the new construction site.