

Featured Project

Lucky 7 Casino

Smith River Rancheria
Smith River, California



Located on the majestic, redwood-studded coastline of the beautiful, wild, and scenic Pacific Ocean, the Lucky 7 Casino was originally established in 1996 as an enterprise of the Tolowa Indians of the Smith River Rancheria. In 2001, Lucky 7 was relocated to a new, larger facility. In 2008, the Rancheria commissioned an expansion to the existing Casino, to accommodate continued growth and the need for additional space.

For this expansion, ArcSine partnered with Phillippe Lapotre, a renowned local architect, to design the renovation. ArcSine Engineering prepared electrical design documents for a 7,477-square-foot restaurant and casino, a 14,744-square-foot bingo hall, and a 9,676-square-foot administration/security office.

ArcSine Engineering's services included:

- Detailed field investigation.
- Coordination with casino maintenance staff, security, and General Manager.
- Designed in-floor walker duct in casino area.
- Designed a geothermal heat pump system utilizing VFDs.
- Coordinated custom light fixture locations and requirements with interior designers.
- Designed a 1-megawatt, 480V, 3-phase standby generator and automatic transfer switch.
- Coordinated power requirements with commercial kitchen vendor.
- Designed lighting for the restaurant, administration area, kitchen, bingo hall, support areas, casino, building exterior, and site lighting.
- Prepared photometric plot files and AGI 32 (lighting design software) renderings for the casino, bingo hall, and restaurant.
- Designed a 200A company switch and provisions for the performance venues in bingo hall.

Electrical
Lighting
Power Distribution
Construction Services

