

# CASE STUDY

Recording Studio

## Silvercreek Recording Studio

Nashville, TN

The studio owner wanted to expand and renovate an existing recording studio facility into a state of the art recording studio with control room, studio, isolation booths, editing suites, tape room, lounge, and supporting spaces. Puckett Engineering's solutions began with an assessment of the existing electrical service and power distribution and potential electrical interference from nearby power lines outside of the building. Puckett Engineering's solutions for the studio's electrical systems included the following:

- Complete replacement and upgrade of the electrical service and power distribution to accommodate the studio's loads.
- Shielding of the tape room as a precaution against power line interference.
- Surge protection for the electrical service and "Tech" power system.
- Power conditioner for the "Tech" power system.
- Voltage sensing controller to protect the "Tech" power system from repetitive power outages.
- Special single-point grounding for the "Tech" power system to prevent noise on the audio systems.
- Lighting in control room, studio, and other recording spaces and in general spaces.
- Dimming controls for control room, studio and other recording spaces utilizing autotransformer type dimmer controls to prevent electrical interference with audio systems.



### PROBLEM OR NEED

Specialized Electrical Systems for Record Studio.

### PUCKETT SOLUTIONS

Electrical Service.

Power Conditioning.

Surge Protection.

Special Grounding for Audio Systems

Shielding for Tape Room.

Studio Lighting and Dimming Controls.