

John Rengepis, PE

Senior Electrical Engineer

EDUCATION

MBA, Business Administration, Rutgers University; (2002)

BSEE, Electrical Engineering; Drexel University (1991)

PROFESSIONAL REGISTRATIONS

Professional Engineer: PA (#077024, exp. 9-30-27)

Professional Engineer: NJ

(#24GE06019200, exp. 4/30/26)

Professional Engineer: WA (#51880, exp. 12/15/26)

Professional Engineer: DC (#PE922614, exp. 8-31-26)

Professional Engineer: TX (#139153, exp. 9-30-26)

Professional Engineer: KY (#36859, exp. 6-30-26)

Professional Engineer: FL (#91697, exp. 2-28-27)

Professional Engineer: AZ (#73347, exp. 6-30-27)

Professional Engineer: MA (#57773, exp. 6-30-26)

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers

EXPERIENCE SUMMARY

Mr. Rengepis serves as a Senior Electrical Engineer in our MEP Division with more than 30 years of experience in the consulting and design engineering field. His expertise includes electrical power distribution, lighting, utility and distributed generation, substations, relay protection, power grid modernization, and fire alarm. Mr. Rengepis has experience developing power and lighting designs, performing building and site condition assessments, providing equipment evaluations, and managing large multi-disciplinary projects.

REPRESENTATIVE PROJECTS

Concord Township Lighting Reviews - Concord Township, PA

Township Lighting Engineer Reviewer – Pennoni is the township engineer for Concord Township. Work performed includes the review of submitted plans to the township for conformance with the township lighting ordinances, including lighting levels, fixture design and installation, glare, color temperature, and cutoff.

Temple University – Geasey Field Lighting, Philadelphia, PA

Electrical Discipline Lead – Responsible for Project Management of multidiscipline tasks and electrical oversight of a new Musco field lighting system for the Geasey multi-sports field. The project included surveys and geotechnical analysis by others. The electrical design included a new 300KVA 13.2kV-480/277 main transformer, a renovated electrical vault with new equipment, a new heater and room louver, electrical distribution, and lighting panels. Load calculations were performed, and the design included an interface with Musco design documents, a review of vendor photometric, a design of underground conduit and cable routing, and voltage drop calculations. Specifications were prepared for the construction set. 50% and 100% probable costs were provided with the design. Zoning plans were prepared for city approval. Construction administration included a pre-bid meeting and responses to bidder questions.

Burget & Associates, New Bloomfield, PA

Responsible the development of glare analysis studies using ForgeSolar software for various PV installations in Pennsylvania. The studies evaluated the potential level of glare on receptor points and roadways. The studies included the use of obstructions to eliminate or reduce potential glare.

AMTRAK – ADA Platform Upgrades, Plattsburgh, NY

Electrical Discipline Lead – Development of new platform lighting per Amtrak specifications and to preserve the architectural elements of the existing building. The platform included a new covered ramp and upgraded platform. I directed the preparation of photometric calculations and reviewed them against the specifications. Interfaced with the local utility to identify a new power source and prepared designs for a medium voltage 500KVA 480/277V transformer to be powered from a vault across the tracks. The design included lighting, lighting controls, and a platform snow melt system. Derate and voltage calculations were performed, and boring, routing, and equipment arrangements were prepared. The design included a sequencing plan to initially provide lighting from the existing building source to future re-powering from the new source.



John Rengepis, PE

Senior Electrical Engineer

Aston Township - Concord Rd Street Lights, MTF, Aston, PA

Electrical Discipline Lead – Provided QA/QC oversight of the street lighting design for State Road 3007 (Concord Road), installing decorative lighting along a 3,751-ft roadway. Work included review of photometric analysis, Highway Occupancy Permit (HOP) plans, and design specifications per PennDOT standards.

Narberth Borough - N. Narberth Ave. Bridge Replacement, Narberth, PA

Electrical Discipline Lead - Provided oversight of plans and specifications for the lighting of the Narberth Bridge running over Amtrak tracks. Project included specialty lighting for the bridge, coordination with architect and civil disciplines.

PennDOT/DRWC Penn's Landing Park Expansion, PA

Engineer of Record/Electrical Discipline Lead – Responsible for all electrical services for a new café and pavilion, bridge park electrical expansion, and park power and lighting design. Coordination was a key effort in the design which included MEP/FP disciplines, architectural, landscape, civil, structural, and bridge engineers. The project includes a highway cap over a stretch of Interstate 95 in Philadelphia. The cap covers nearly 12 acres of parkland and connects Old City to the Delaware River waterfront at Penn's Landing. Park power facilities design includes 13.2KV service switchgear for main and fire pump power, 480/277V and 208/120V distribution power for buildings, park and a seasonal ice rink and amphitheater.

Philadelphia School District New Thomas Holme School, Philadelphia, PA

Electrical Discipline Lead - Responsible for the technical direction of electrical, lighting and fire alarm systems for a new school. The designs included a medium voltage service, HVAC and local system power, generator, lighting, and fire alarm systems. Responsibilities included design support, QA/QC, and submittal reviews.

REBUILD - Kinsgessing Library and Recreation Center Design, Philadelphia, PA

Electrical Discipline Lead - Responsible for the technical direction of electrical, lighting and fire alarm systems for modernization of the library and recreation center. The designs included modified and new services, HVAC and local system power, lighting, and fire alarm systems. Responsibilities included design support, QA/QC, and submittal reviews.

Hinchliffe Stadium – Restoration and Rehabilitation, Paterson, NJ

Electrical Discipline Lead – Responsible for the design and QA/QC of electrical system upgrades, including service, lighting, and power distribution for a new restaurant and stadium building. The stadium is a 10,000-seat historic stadium venue originally built in 1932.

Ciocca Dealerships - 1400 and 1450 S. 33rd Street Subaru, Philadelphia, PA

Electrical Discipline Lead - Responsible for the technical direction of electrical systems for a new car dealership with showroom and service buildings. The design includes a new service feed, fire pump, HVAC systems, lighting, and fire alarm systems. Responsibilities included QA/QC and code compliance.

Berwind Corp. Executive Hangar, PHL Airport, Philadelphia, PA

Electrical Discipline Lead – Responsible for QA-QC of the electrical and fire alarm design. The design included upgrades to the electrical service and building distribution to accommodate a 8,000 sqft hangar addition including office space fit-out. The design included providing a new natural gas generator, electrical distribution, lighting and fire alarm expansion.

Confidential MLB Ballpark Field Electrical and Lighting Assessment

Performed a site survey to evaluate the overall condition of major electrical systems. This assessment consisted of discussions with facilities personnel related to condition of equipment as well as a visual inspection. Major equipment surveyed included electrical services, back-up power generation, facility lighting, power metering, concession power, field lighting and scoreboard.