



Title: Mechanical Designer

Education: Bachelor of Science ➤ Mechanical Engineering ➤ University of Nevada, Reno.

Professional Affiliations: American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE), American Society of Mechanical Engineers (ASME)

Experience & Qualifications: Before joining Ainsworth Associates Mechanical Engineers, Anthony worked as a project manager in construction at a large mechanical contractor in California. He gained valuable on-site experience that has aided in his ability to design HVAC and plumbing systems with field constructability and cost implications in mind.

As a Mechanical Designer, Anthony works directly with Architects, Electrical Engineers, contractors, and facility owners to design new or replacement mechanical and plumbing systems specific to the project needs. He is also responsible for load calculations, specification writing, and construction administration on the project's that he helps lead.

Anthony's education includes energy-balance and thermal sciences coursework consisting of Heat Transfer, Fluid Mechanics, Thermodynamics, and Intermediate Thermodynamics. He is versed in design software including AutoCAD, Revit, HAP, BIM360, and Bluebeam Revu.

ANTHONY HAS
OVER FIVE YEARS
OF EXPERIENCE IN
THE CONSTRUCTION
AND MECHANICAL
ENGINEERING
INDUSTRY.

PROJECTS:

RENOWN REGIONAL MEDICAL CENTER FLOORS 5 & 9 T.I.

Anthony assisted with a redesign of Renown's HVAC and plumbing systems for the 2-level tenant improvement build-out. Anthony aided in the sizing, layout, and engineering design of the ductwork and diffusers and also managed the space pressurization and air-change-rate calculations for a post-pandemic healthcare environment. Via coordination with the owner in an effort to help minimize the risk associated with airborne infections, the design exceeded the minimum requirements set forth by ASHRAE 170 and the FGI Design Guidelines.

ELY STATE PRISON BOILER REPLACEMENT

Anthony assisted with significant mechanical design efforts for the replacement of Ely State Prison's central high temperature hot water boiler plant and the culinary/laundry steam boiler plant. Anthony worked closely with the using agency and the State Public Works Division to help deliver engineering solutions for degraded and aged boilers, piping, and pumping equipment while maintaining a critical focus of keeping the facility online during construction due to a minimum 48-hour shower downtime regulation.

FIRST NATIONAL BANK OF ELY

Anthony was the lead designer for an HVAC and plumbing renovation at the First National Bank of Ely. Anthony utilized his knowledge of duct sizing and layout while coordinating the project with the consultant team live via the Building Information Modeling (BIM) process. The old stick-framed building provided significant challenges regarding structure and installation access and the design effectively provided a 5-zone VAV system for ultimate occupant comfort, energy savings, and zoning versatility.