Daniela Saldate

Daniela leverages her construction experience in her HVAC/Plumbing designs

Title: Mechanical Designer

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

Experience & Qualifications: Daniela has over three years' experience with project management in the construction industry and leverages this experience in her HVAC/Plumbing designs. Before joining AAME, Daniela worked as a construction project engineer. She gained experience in supervising the scope of work of subcontractors and was responsible for tracking and identifying potential constructability conflicts. She was actively engaged in coordination meetings with the client, architects, consultants, and subcontractors to ensure and provide effective construction directions.

As a mechanical designer, Daniela performs tasks that include designing various mechanical and plumbing systems involving heating, ventilating, cooling, and refrigeration. During the design process, with her construction experience in mind, she utilizes tools such as Autodesk's Revit software to accurately design the project at hand.

Daniela's education includes coursework in the mechanical engineering sciences consisting of Heat Transfer, Fluid Mechanics, Thermodynamics, and Mechanical Design. She is proficient in and continues to educate herself in design software such as AutoCAD, Revit, BIM360, and Bluebeam Revu.

PROJECTS:

Renown Rheumatology Remodel

Daniela helped with the calculations and design on this outpatient medical remodel. Air change rate and pressure differential calculations were performed per standards developed by FGI Guidelines and used to redistribute air as required for a safe indoor environment. Daniela also assisted in load calculations, terminal unit selections, and duct renovation design + plumbing modifications as required.

WCSD Echo Loder Elementary School Replacement

Daniela was part of the design team for the new 100,500 sq ft Echo Loder Elementary school. The project's scope is to design a modern school with an energy efficient mechanical system to replace the existing school that is past its useful life. Daniela was involved with the plumbing design of the storm drain system as well as developing a heat pump system riser diagram using Autodesk's Revit software.

UNR Planetarium Dome Renovation

This project seeks to replace and enhance the Planetarium's indoor theater experience by replacing an old projector and screen with wrap-around LED screens for a modern and high-tech viewing experience. AAME's role is to ensure a comfortable viewing experience by removing the heat produced by the screens. Daniela assisted in routing refrigeration piping to cool the LED screen server equipment. Special care was given to respecting the existing tight conditions and developing creative approaches to connect all required HVAC equipment.