

ZONA | TECHNICAL ENGINEERING



www.zonamep.com

MEP Engineers for Long Term Solutions



INTRODUCTION

Zona Technical Engineering:

- Services for All Building Types
 - ➔ Mechanical, Electrical, and Plumbing (MEP) Design
 - ➔ Energy Assessment and Energy Modeling

WHAT MAKES US DIFFERENT?

- Heavy principal/engineer involvement
- Flexibility to meet your needs
- Award winning services - recipient of Cornerstone's "Design Consultant of the Year" Award
- Tech-savvy employees that cover all MEP services!

WE SPECIALIZE IN...

- Full Service MEP Design
- HVAC and Plumbing Systems Design
- Electrical Design and Arc Flash Studies
- Energy Assessment and Energy Modeling

MEP Engineers for Long Term Solutions



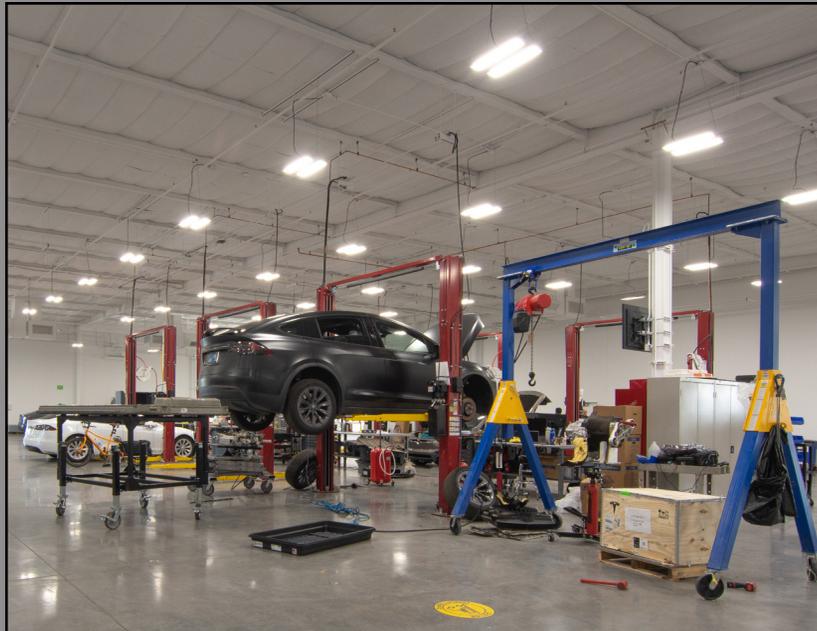
OUR EXPERIENCE

We have a vast amount of experience with many different building types:

- Medical facilities
- Governmental agencies
- Educational facilities
- High-rise buildings
- Laboratories and clean rooms
- Resorts and hospitality
- Warehouses and manufacturing
- Religious facilities
- Mixed-use properties

We design for:

- New construction
- Renovations
- Remodels
- Tenant improvements
- Equipment and systems upgrades



Experienced Engineers for All Your MEP Needs



Full MEP Services

Zona is a full service consulting engineering firm that provides in-depth design for Mechanical, Electrical, and Plumbing (MEP) aspects of any type of commercial project.

- Experts in MEP consulting with decades of experience
- Fully coordinated and designed in house to provide the best product for our clients
- Green build projects, renovations, tenant improvements, and equipment replacements
- Your long term partner, supporting the project past final completion
- Design-Build, Design-Bid-Build, and Construction Manager at Risk (CMAR)
- Committed to exceed expectations
- Design services tailored to meet your needs



Full MEP Services for All Building Types



MECHANICAL DESIGN

Mechanical system designs are essential to occupant comfort and process functions.

- Heating, Ventilation, and Air Conditioning (HVAC) Systems
- Air-Cooled and Water-Cooled Chilled Water Plants
- Medium and High Temperature Heating Water Plants
- Energy Management and Control System (EMCS)
- Air Handling Units with Humidity Control
- Mission Critical and Data Rooms
- Low and High Pressure Steam Plants
- Air and Water-Side Economizers
- Clean Rooms – Site Built and Modular
- Laboratory and Hazardous Exhaust Systems
- Kitchen Exhaust and Make-Up Air
- Demand Controlled Ventilation
- Hybrid Heating and Domestic Hot Water Plants
- Cogeneration Plants



PLUMBING DESIGN

We design systems that bring water into the building for human use, and we remove wastewater of various types to keep the building clean.

- Domestic Water Supply and Distribution Systems
- Waste, Vent, and Rainwater Conveyance
- Fuel Gas Piping
- Low-Flow, High-Efficiency Plumbing Fixtures
- High-Efficiency Water Heaters and Domestic Boilers
- Medical Gas Systems per NFPA 99
- Commercial Kitchen and Laundry Design
- Solar Thermal Domestic Water Heating Systems
- Booster Pump Stations
- Process Gas and Water Systems
- Compressed Natural Gas (CNG) System

ZONA

ELECTRICAL DESIGN

Electrical systems are essential to each project and help enhance all other disciplines.

Since electrical design is an integral part of the functionality of a building, it requires precise coordination with other trades and disciplines. The Zona team takes great pride in this coordination.

- Power Design
- Lighting Design
- Special Systems Design
- Electrical One-Lines
- Panel Schedules
- Generator Sizing (legally required and optional Standby)
- Emergency Systems
- Photometric Calculations
- Arc Flash, Arc Fault, and Coordination Studies
- Energy Code Compliance



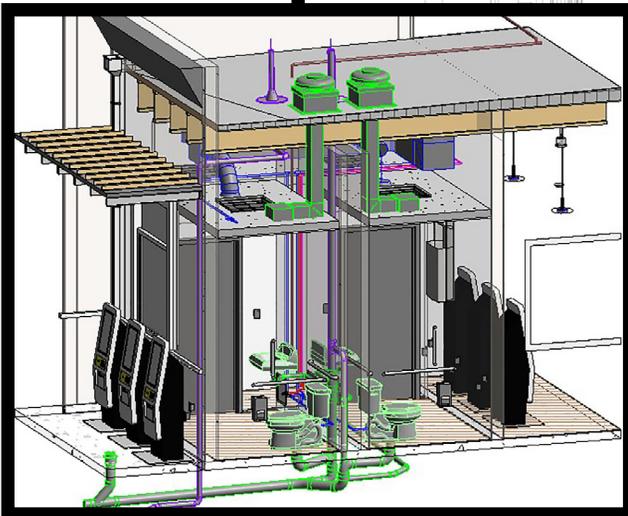
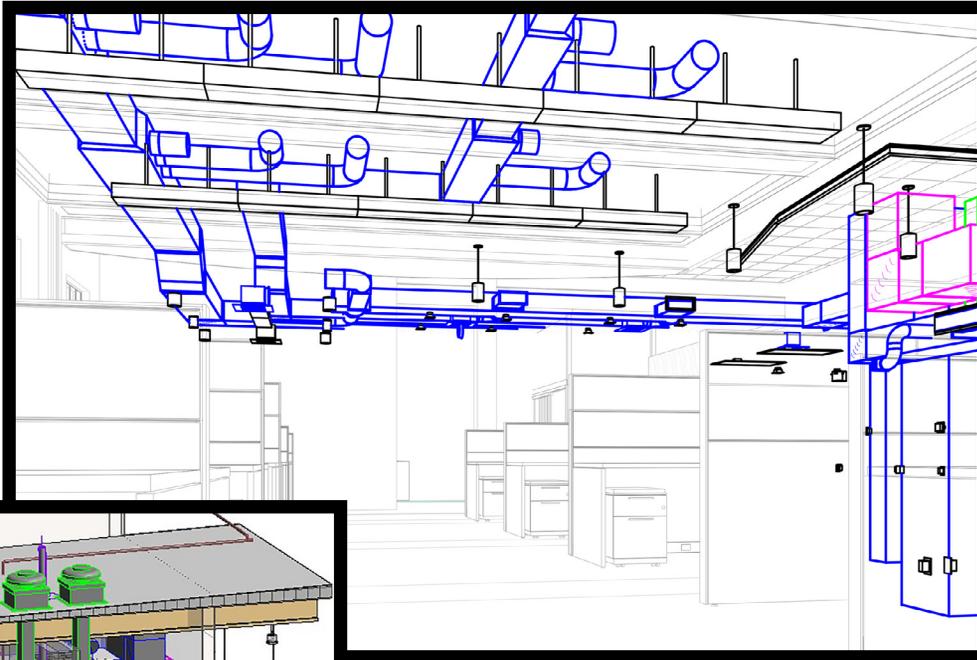
REVIT AND BIM

We use Autodesk Design Suite and have the ability to leverage the use of parametric 3D modeling software:

- ▶ Revit MEP
- ▶ BIM 360 (Document Management / Design Collaboration Platform / AutoDesk Docs)

Engineering Benefits:

- Communicate our design intent
- Collaborate with the project design/ construction teams more effectively
- Enables our clients to visualize what the finished product will look like before construction is even started
- Creates an intelligent 3D design model of the MEP systems coordination
- Helps make critical cost and timesaving decisions during the design phase
- Produces higher quality work by identifying potential problems during the design process
- Identify key challenges and reduces the amount of RFI's during construction



ZONA | TECHNICAL ENGINEERING



**Contact us today so we can
assist with your next project!**

www.zonamep.com

**520-200-2612
info@zonamep.com**