

MEP Engineering Services

Educational Facilities

Elementary Schools
Middle Schools
High Schools
Colleges & Universities
Sports Facilities
Administrative Buildings

Mechanical Engineering

Electrical Engineering

Plumbing Engineering

Process Piping Engineering

Integrated Technology Engineering

Educational facilities can be a school, a sports field, a campus, an auditorium, dormitories, an office building, the full range of facility usage is represented. MEP systems in educational buildings have increased in complexity over the last decade.

Many of these facilities require that the engineering and construction work be completed without disrupting those executing their work in that building. Access needs to be maintained as well as any security systems in place throughout the process.

Alternately, it may be that engineering needs to be completed to allow for all construction to be accomplished during a typical summer shutdown period.

In either instance the building use time frame requires coordination and communication to make it a project that comes in on time, and on budget, to meet the needs of the student and faculty schedules. Plant Engineering Consultants is well aware of, and highly capable in meeting these needs.

OUR PROVEN PROCESS

Communication: This is throughout the process from initial contact to occupancy.

Collaboration: Working with the design team (Architect, Owner, Engineering) to integrate intent, use concepts, reliability, maintenance, limitations, and restrictions, to achieve a cohesive, coordinated solution.

Commitment: Plant commits to every project we take on. We communicate and collaborate throughout the project. Dedicated teams work from start to finish.

Creativity: We enjoy the challenge - this is where we shine! We originate and suggest creative ways to meet the needs of the project.

Competence: Understanding the client's intent, construction norms, and the governing codes, our designs integrate the function with the form.



Bringing Reliable, Affordable, High Fidelity Engineering to Educational Facilities



NOTABLE RECENT PROJECTS

- Edison SD 54JT Jr/Sr High School
- Widefield SD 3, Grand Mountain School - 115,000 SF New Construction PreK-8th Grade
- Colorado School for the Deaf and Blind - Gottlieb, Palmer & Jones Halls Renovations
- Fountain-Fort Carson SD 8 High School - HVAC, Hydronics, Plumbing, Power Upgrades
- Cherry Creek SD 5 - Elementary Schools (4) Electrical Service Upgrades, Arc Flash Analysis
- TCA - Multiple North and Rampart campus projects, PreK-12
- Pueblo Community College - HALC Building, LC at St. Mary Corwin Renovations
- UC Boulder - Guggenheim, Litman, Ekley Electrical Service & Switchboard Upgrades
- Lamar Community College – Pipe & Pump Upgrades, Campus Solar Walk way Lighting
- Adams State Planetarium Remodel
- Otero Junior College

MECHANICAL ENGINEERING

- HVAC Systems
- Central Plants
- Chilled and Heating Water Systems
- Steam Piping Systems
- Cooling Towers
- Exhaust & Ventilation Systems
- Clean Rooms

ELECTRICAL ENGINEERING

- Service & Distribution Systems
- Essential Electrical Systems
- Power Quality
- Generator and UPS Systems
- Selective Coordination & Arc Flash Hazard Analyses
- Interior/Exterior Photometric Analyses
- Interior/Exterior Lighting Systems

INTEGRATED TECHNOLOGY ENGINEERING

- Fire Alarm & Detection Systems
- Access Control Systems
- Video Surveillance Systems
- Audio/Video Systems
- General Communication Systems

PLUMBING/PROCESS PIPING ENGINEERING

- Domestic Hot & Cold Water Systems
- Sanitary & Venting Systems
- Fire Protection Systems
- Natural Gas Piping Systems
- Chemical Storage and Distribution
- Process Gases Storage and Distribution
- Acid Drain Systems

ADDITIONAL ENGINEERING CAPABILITIES

- LEED™ & Sustainable Engineering
- Energy Conservation Consulting
- Fundamental Energy Modeling
- Code Consulting
- Fundamental Commissioning
- Engineering Studies
- Facility As-Building
- Power Monitoring
- Circuit Tracing
- Bidding and Construction Phase Services

WHY PLANT ENGINEERING CONSULTANTS?

- Value and quality through character and competence.
- We've been engineering building systems since 1993!
- Your single source for full MEP engineering.
- Because communication and collaboration are key to high fidelity engineering.
- We are committed to creativity and competence as we complete challenging designs.

PLANT
ENGINEERING CONSULTANTS

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