

MICROELECTRONICS – Computer Peripherals

Headway Technologies Alcatel Cleanroom Expansion



OVERVIEW

As a prime consultant, IES provided overall project engineering management, MEP design and Hazmat consulting, Class-100 Cleanroom with comprehensive engineering responsibility from project preplanning phase through design, permitting, construction, commissioning and operation.

PROJECT DETAILS

- Retrofit an existing 7,000 sq.ft. office space into:
 - Class-100 Bay & Chase Cleanroom with Central Makeup and Recirculation Air Handlers
 - 4,000 sq.ft. 2-Story Central Utilities Plant
- Mechanical Systems design included central Chilled Water plant, Heating Hot Water Plant, Makeup Air Handler and Central Recirculating Air Handling systems.
- Industrial Ventilation General Exhaust System
- Process Systems design included central PCW and CDA Systems; and Process Piping Distribution.
- 12-KV/480 Volt Power Distribution System and Emergency Power Distribution System.

IES SOLUTIONS

- Roof top central recirculating air handling systems mounted on free standing moment frames through roof structure.
- Two story central utilities plant avoided accounting for the second level mezzanine as occupied space by providing steel grating catwalk system around all 2nd level mechanical equipment.
- Central facility chilled water plant by consolidating existing and new chilled water systems.
- Partial roof framing structural upgrade to support roof supported ductwork, pipe racks and electrical conduits without having to conduct complete roof system structural

LOCATION

Milpitas, California

TEAM (PARTNERS)

Architect- WHL Architects
 Structural- MSI Consultants
 General Contractor-Adacon
 Mechanical Contractor-Therma
 Electrical Contractor-Cupertino Elec

PROJECT DURATION

Design & Permit - 4 months
 Construction – 7 months

PROJECT VALUATION

>\$13,000,000

ABOUT IES

Integrated Engineering Services (IES) is an established firm providing innovative and cost-effective solutions to meet your complex engineering, design and operational needs.

When experience, knowledge and innovation matter most.