GENERAL MECHANICAL PLAN REVIEW REQUIREMENTS FOR COMMERCIAL BUILDINGS

Equipment:
- Show an equipment schedule including the manufacturer, model number, heating and cooling input and output, CFH, outside air requirements and a description of the equipment.
- Show that the required distances from intake to exhaust are being met.
- Show all required calculations for Type “1” and Type “2” hoods including air velocity with a minimum of 500’ per minute and a maximum of 2500’ per minute. Show all required clearances from combustibles, property lines, etc.
- Show detailed construction drawings.
- Show an air balance schedule on the plans.

Ducts:
- Show a material schedule listing the manufacturer, model number (if applicable) and a description for registers, ducting, etc.
- Show a diagrammatic drawing for the duct system. Show all supply and return ducts and their locations in the building.
- Show all duct sizes including mains, segments and branches.
- Show the Cubic Feet per Minute (CFM) of air at each supply and return register.
- Show the balance of outside air and return air for each system.
- Show adequate ventilation for each space per the 2016 CMC Table 402.1 or the 2016 CEC Table 120.1-A whichever is more restrictive.
- Show fire/smoke dampers for fire rated construction as required.

General Information:
- Show mandatory Title-24 energy mechanical requirements on the plans.
- If the building is new, you are adding new square footage or altering the duct system in an existing building you must provide complete Title-24 energy documentation for compliance and acceptance. Show Title-24 energy for spaces that are being converted from unconditioned to conditioned space. If replacing equipment or duct systems provide Title-24 for the new work.
- Show the required Title-24 energy sheets copied onto the plans and wet sign in the required signature block(s) for the author and designer.
- Show a designers stamp and wet signature. Unlicensed individuals may not design or sign mechanical systems. Mechanical systems must be designed and signed by appropriately licensed or registered professionals, or appropriately licensed contractors as allowed by the Professional Engineers Act. (Ref.: Business and Professions Code Sections 5537.2, 5537.4 and 6737.4.)

The above are general requirements for mechanical systems. There may be additional plan review requirements for your project. Not all of the above requirements may pertain to your specific project.