

# PUEBLO REGIONAL BUILDING DEPARTMENT

## NEW SINGLE FAMILY RESIDENCE PLAN SUBMITTAL

**Two (2) complete sets of plans:** Plans should be of sufficient detail to allow construction without any further information being required from the Designer. Plans shall be drawn to an acceptable, approved, architectural scale, dimensioned & consisting of but not limited to the following:

**Site Plan:** Need legal description. Show plot of land with all dimensions, streets, roads, and right-aways. Show site of all buildings on property with dimensions from all property lines and detached buildings.

Title Block, on first page, consisting of:  
Address of job  
Name of owner

**Engineered Footing and Foundation Plans:** (shall require original Colorado Engineer's or Architect's stamp)

**Engineered Soils Report:** (shall require original Colorado Engineer's or Architect's stamp)  
*When a Colorado Architect or Engineer stamp is required, it must be an original seal and signature dated and must appear on each sheet of design drawings and all other documents submitted. Copies are not accepted*

Include plan view, sections, note location, and sizes of all openings: (windows, doors, vents, beams, posts, joist, rafters, headers, trusses, etc.)

**Floor Plans should provide the following information:**

Room usage, location and size of windows and doors, location of smoke detectors, and safety glazing. Basements should show locations of above items plus location of windows, stairs, crawl space access, including sizes of windows and doors.

**Elevations:**

Four (4) views of structures, shall show dimensions, grade levels, windows, doors, roof coverings, identification of exterior materials, guardrails, steps, stairs, basement lines, decks, patio covers, and porches.

**Building and wall sections:**

Section through building showing framing details, flooring, decking, basement walls, insulation, U-factors, R-values, floor and foundation. A typical wall section should note all pertinent information and extend from foundation to roof.

**Stair detail:**

Cross section of each type of stair used showing the rise and run, headroom clearance from nose of tread and handrail and baluster details.

**Misc. details:**

If special conditions occur such as narrow wall bracing, then detail drawings are required on plans.

**Energy Calculations:**

Prescriptive per Chapter 11 of the 2009 IRC  
UA Alternative per the 2009 IRC/Rescheck  
Performance per section 405 of the 2009 IECC

## **MECHANICAL PLAN REVIEW REQUIREMENTS:**

### **On the drawings:**

Provide an HVAC layout with equipment locations; air distribution ductwork and sizes; air intake and exhaust locations; gas and refrigerant piping layout; gas meter location; fan and pump type and location; control diagram indicating type of HVAC control and the unit(s) it controls.

Provide Water Heater information on the drawings. Provide a service water heating system layout with equipment locations; gas and water piping diagram and gas meter location.

### **In schedules:**

List heating and cooling equipment capacity; types; sizes and efficiency; fan horsepower and airflow capacity; outside air volume; duct insulation R-values; pipe insulation thickness and k-values (thermal conductivity per inch).

### **Through notes and callouts:**

Note that the building owner is to be given operation and maintenance literature, and that control systems are to be tested to ensure that elements are calibrated and in good working order.

### **Through supplementary worksheets:**

Provide load calculations and duct design calculations specific to the building.

## **BEFORE FINAL INSPECTION:**

Section 401.3 Certificate I.E.C.C.

A permanent certificate shall be posted on or in the electrical distribution panel. It shall list:

Predominant R-values of insulation installed in or on ceiling/roof, walls, foundation and ducts outside conditioned spaces.

List the types and efficiencies of heating, cooling and service water heating equipment.