

Received Date _____

Town of Estes Park

Permit Number _____

Received By _____

Application for Building Permit

Department of Building Safety 170 MacGregor Avenue P.O. Box 1200 Estes Park, CO 80517

General Information (970) 577-3726 • FAX (970) 586-0249 • www.estes.org

Job Address: _____		Lot Size: _____ sf/ac	
Lot: ___	Block: ___	Subdivision: _____	Parcel #: _____
Owner Name: _____		Phone: _____	
Address: _____			
(Street)	(City)	(State)	(Zip Code)
Contractor: _____		Town License #: _____	Phone: _____
Address: _____			
(Street)	(City)	(State)	(Zip Code)

Approval on non Town entities is the responsibility of the permit applicant. Please obtain the appropriate approval(s) of the following authorities, as advised/highlighted by the Building Official. Each authority will have its own requirements, policies and procedures, and fees which are distinct and separate from Municipal requirements and fees. Permits will not be issued prior to obtaining required approvals.

1. SANITATION DISTRICTS

- Upper Thompson Sanitation District
- Estes Park Sanitation
- New Construction
- Adding, Relocating or Vacating Plumbing Fixtures
- Adding Square Footage to Existing Building Footprint
- Adding or Vacating Septic System
- Sand/Oil Interceptor / Grease Interceptor

SANITATION COMMENTS: _____

Note: New Interior Grease Traps are prohibited by the Building Department and the Health Department.

Approved Date

2. LARIMER COUNTY HEALTH DEPARTMENT

- Commercial Food / Drink Preparation
- Alcohol Sales (On Premise)
- Day Care (6 Or More Children Under Age 18)
- Septic System
- Sewer Lift Stations
- Public Swimming Pools / Spas / Hot Tubs

HEALTH DEPT. COMMENTS: _____

Approved Date

3. ESTES VALLEY FIRE PROTECTION DISTRICT

- _____
- _____
- _____
- _____

FIRE DISTRICT COMMENTS:: _____

Approved Date



**ESTES PARK
COLORADO**

THE TOWN OF ESTES PARK
MINIMUM SUBMITTAL CHECKLIST FOR RESIDENTIAL
CONSTRUCTION PLANS- 2009 IRC
 General Information (970) 577-3726 • Fax (970)586-0249 • www.estes.org
 Division of Building Safety 170 MacGregor Avenue P.O. Box 1200 Estes Park, CO 80517

Required information must be provided and verified by checking the appropriate review box. Incomplete submittals will not be accepted unless specifically approved by Town Staff.

Plans that have been marked in red will not be accepted.

Properties within Town Boundaries: For 1 & 2 Family Dwellings provide 5 identical Plot Plans and 2 identical sets of construction plans. For Multi-Family projects provide 6 Plot Plans and 4 construction plans.

See Plot Plan Specifications for minimum plot plan submittal requirements.

The following information is required on construction plan submittals:	Applicant Review	Staff Review
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Design Criteria:

A. Provide design method and design criteria used in design of structure.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Stamped Engineering <input type="checkbox"/> 120mph / Exp B WFCM (AFPA) <input type="checkbox"/> ICC 600 Town of Estes Park locally adopted design criteria: <ul style="list-style-type: none"> • Wind Speed: 140 mph, 3 second gust, Exposure C (Default, site specific by Arch/Eng for B) • Ground Snow Load: By elevation, 45 psf for <8000 feet, 55 psf for > 8000 feet, 70 psf >9000 • Seismic Design Category: B • Floor Load (all floors): 40 psf • Deck Load: 60 psf; Hot Tub Deck = 100 psf minimum • Frost line depth: 30 inches (Can be shown on Foundation Plan) 		

Foundation Plan:

A. Show footing size, depth and location, pad sizes and location, foundation wall detail (size & heights), cross section include reinforcing size, grade & spacing. Show SOG locations and thickness. Dimension all elements.	<input type="checkbox"/>	<input type="checkbox"/>
B. If decks are proposed, show pier size and spacing dimensions.	<input type="checkbox"/>	<input type="checkbox"/>
C. Foundation walls over 9 feet in height from top of footing to top of wall require a Colorado Registered Design Professional (Architect or Engineer) stamp on the plans.	<input type="checkbox"/>	<input type="checkbox"/>
D. Show location of all hold downs, special connectors or fasteners and anchor bolt size & spacing.	<input type="checkbox"/>	<input type="checkbox"/>
E. Identify graphic scale used (Scale must be 1/4"=1' or larger). Maximum paper size accepted 24" x 36", Directional Arrow – North.	<input type="checkbox"/>	<input type="checkbox"/>

Floor Plans:

A. Label use of each room and show window sizes and type, door swings and sizes, plumbing fixture placement, kitchen cabinets, appliances, stairways, fireplaces, water heater and furnace location, etc.	<input type="checkbox"/>	<input type="checkbox"/>
B. Provide separate plan for each level.	<input type="checkbox"/>	<input type="checkbox"/>
C. If decks are proposed, show size (dimensions) and location.	<input type="checkbox"/>	<input type="checkbox"/>
D. Identify graphic scale used (Scale must be 1/4"=1' or larger). Maximum paper size accepted 24" x 36", Directional Arrow – North.	<input type="checkbox"/>	<input type="checkbox"/>

MINIMUM PLOT PLAN SPECIFICATIONS
(FOR PROPERTY IN THE ESTES VALLEY)

Required information must be provided and verified by checking the appropriate review box. Incomplete submittals will not be accepted and will delay the review process unless specifically waived by Town Staff. Plans that have been marked in red will not be accepted. Properties within Town Boundaries: Town Staff requires 5 identical Plot Plans and 2 identical sets of Building Plans for residential submittals, 6 Plot Plans and 4 Building Plans for commercial submittals.

The following information is required on plot plan submittals:	Applicant Review	Staff Review	Staff Waiver
A. Legal Description if Subdivision, PID (Parcel Identification) number if Metes & Bounds. Also include Vicinity Map if new Commercial construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Identify graphic scale used (Scale must be 1"=20' or larger). Legible Plan. Maximum paper size accepted 24" x 36", Directional Arrow – North.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Property line distances & bearings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Minimum required setbacks established in EVDC or platted building envelopes. Proposed setbacks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Other required setbacks as applicable (wetlands, rivers, and streams).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Show location & dimensions of all buildings, including any decks or porches on lot. Include eaves if they encroach into property line setbacks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Show existing and proposed easements (e.g. utility, access, drainage).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Identify location of all utilities & proposed service taps. (electric, gas, water, sewer) Include pipe materials used for water and sewer lines. Examples: Water- Type K Cu, Sewer- SDR35 Note: Utility connections within a street shall be close enough together to create only one patch, yet meet the minimum separation per utility. Existing streets will be cut at a 90-degree angle for connections & road patch. Applicant shall acquire a Public Works Right-of-Way permit and meet all construction guidelines. If questions, please contact the Public Works office at 577-3586.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Names of all adjacent roads.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. Existing driveways and changes to existing driveways.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Show proposed driveways, including the street connection with 10-foot radius on each side. State maximum driveway slope and driveway slope within twenty feet of street intersections. Note existing roadside drainage conditions and show cross-pans, culverts or swales as needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L. Drainage arrows showing proposed drainage direction(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The following information may be required on plot plan submittals:			
M. Note original grades & finished grade with elevations at building corners and finished floor elevations of all floors.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N. Structures over 25 feet in height from existing grade must provide existing & proposed two foot contours. Structures over 25 feet in height	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

must also show an overlay roof plan on the site plan with the height of each ridge noted, as measured from existing grade.

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|---|--------------------------|--------------------------|--------------------------|
| O. A detailed grading and drainage plan is required for multi-family and nonresidential (commercial development), single-family and on lots created after February 1, 2000; single-family homes in ridgeline protection areas; single-family homes in geologic hazard areas, e.g., sites with twenty percent or greater slopes; single-family homes in areas that include significant historic drainage channels/ravines. Refer to applicable Grading and Drainage Checklist for required information. Note: Public Works may require detailed drainage plans at any time, on any lot regardless of inception date. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P. Applicants must refer to Section 7.7 of the Estes Valley Development Code for submittal requirements in geologic and wildfire hazard areas. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Q. Single-family homes built on a debris fan require a stamped foundation plan. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| R. Condominium additions will require approval from the Condominium Board of Directors or unit owners and may require attorney review of the approval documents. Refer to applicable Condominium Terms handout and Building Permits for Condominium Additions handout for required information. If questions, please contact Town Planning Staff at 577-3720 or 577-3729. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| S. Any significant trees and shrubs with a diameter of 8" or more at breast height must be shown on lots created, i.e. recorded, after February 1, 2000. Diameter at Breast Height (DBH) shall mean tree trunk diameter measured in inches at a height of four and one-half (4.5) feet from the ground or, in the case of a tree that is divided into multiple trunks below four and one-half (4.5) feet, as measured at the most narrow point beneath the point of division. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| T. For development in the A, A-1, CD, CO, O, CH, I-1, and RM zoning districts: the percentage of impervious coverage may be required. If questions, please contact Town Planning Staff at 577-3720 or 577-3729. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| U. For development in the A-1, CD, CO, O, CH, I-1 and RM zoning districts: the floor area ratio may be required. If questions, please contact Town Planning Staff at 577-3720 or 577-3729. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| V. Activity in a floodplain requires a Floodplain Development Permit to be submitted with Permit Application. If questions, please call 577-3728. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| W. For multi-family and nonresidential: Depending on the scale of development, staff may require submittals of some or all of the information found in the Estes Valley Development Code. See Appendix B-III- "Development Plan Submittal Requirements." If questions, please contact Town Planning Staff at 577-3720 or 577-3729. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

CHAPTER 4

RESIDENTIAL ENERGY EFFICIENCY

SECTION 401 GENERAL

401.1 Scope. This chapter applies to residential buildings.

401.2 Compliance. Projects shall comply with Sections 401, 402.4, 402.5, and 403.1, 403.2.2, 403.2.3, and 403.3 through 403.9 (referred to as the mandatory provisions) and either:

1. Sections 402.1 through 402.3, 403.2.1 and 404.1 (prescriptive); or
2. Section 405 (performance).

401.3 Certificate. A permanent certificate shall be posted on or in the electrical distribution panel. The certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominant *R*-values of insulation installed in or on ceiling/roof, walls, foundation (slab, *basement wall*, crawlspace wall and/or floor) and ducts outside conditioned spaces; *U*-factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficien-

cies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be *listed* for gas-fired unvented room heaters, electric furnaces or electric baseboard heaters.

SECTION 402 BUILDING THERMAL ENVELOPE

402.1 General (Prescriptive).

402.1.1 Insulation and fenestration criteria. The *building thermal envelope* shall meet the requirements of Table 402.1.1 based on the *climate zone* specified in Chapter 3.

402.1.2 *R*-value computation. Insulation material used in layers, such as framing cavity insulation and insulating sheathing, shall be summed to compute the component *R*-value. The manufacturer's settled *R*-value shall be used for blown insulation. Computed *R*-values shall not include an *R*-value for other building materials or air films.

**TABLE 402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
1	1.2	0.75	0.30	30	13	3/4	13	0	0	0
2	0.65 ^j	0.75	0.30	30	13	4/6	13	0	0	0
3	0.50 ^j	0.65	0.30	30	13	5/8	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.60	NR	38	13	5/10	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.35	0.60	NR	38	20 or 13+5 ^h	13/17	30 ^g	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	20 or 13+5 ^h	15/19	30 ^g	15/19	10, 4 ft	10/13
7 and 8	0.35	0.60	NR	49	21	19/21	38 ^g	15/19	10, 4 ft	10/13

For SI: 1 foot = 304.8 mm.

- a. *R*-values are minimums. *U*-factors and SHGC are maximums. *R*-19 batts compressed into a nominal 2 × 6 framing cavity such that the *R*-value is reduced by *R*-1 or more shall be marked with the compressed batt *R*-value in addition to the full thickness *R*-value.
- b. The fenestration *U*-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- c. "15/19" means *R*-15 continuous insulated sheathing on the interior or exterior of the home or *R*-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with *R*-13 cavity insulation on the interior of the basement wall plus *R*-5 continuous insulated sheathing on the interior or exterior of the home. "10/13" means *R*-10 continuous insulated sheathing on the interior or exterior of the home or *R*-13 cavity insulation at the interior of the basement wall.
- d. *R*-5 shall be added to the required slab edge *R*-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Zones 1 through 3 for heated slabs.
- e. There are no SHGC requirements in the Marine Zone.
- f. Basement wall insulation is not required in warm-humid locations as defined by Figure 301.1 and Table 301.1.
- g. Or insulation sufficient to fill the framing cavity, *R*-19 minimum.
- h. "13+5" means *R*-13 cavity insulation plus *R*-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least *R*-2.
- i. The second *R*-value applies when more than half the insulation is on the interior of the mass wall.
- j. For impact rated fenestration complying with Section R301.2.1.2 of the *International Residential Code* or Section 1608.1.2 of the *International Building Code*, the maximum *U*-factor shall be 0.75 in Zone 2 and 0.65 in Zone 3.