



A/P \_\_\_\_\_ Plan Examiner \_\_\_\_\_

Reference: **2018** International Residential Code (IRC) as amended by NCC under Chapter 6  
2012 International Energy Conservation Code (IECC) as amended by NCC under Chapter 6

**Footing**

- \_\_\_\_\_ 2000 psf allowable soil bearing pressure (T401.4.1 & soil class per Ch.6)
- \_\_\_\_\_ Concrete footer to be 2500 psi minimum (T301.2(1) **per Ch.6 & T402.2**)
- \_\_\_\_\_ Footing sizes adequate for loads (**T401.4.1, 403.1.1 & T403.1 per Ch.6**)
- \_\_\_\_\_ 8” minimum footing thickness (**T403.1** per Ch.6)
- \_\_\_\_\_ Min. 32” footing depth below grade (**T301.2(1) per Ch.6 & 403.1.4**)

**Foundation – Crawl Space** (if applicable)

- \_\_\_\_\_ Masonry, concrete, retaining walls & p/c concrete construction (**404.1.2, 404.1.3, 404.4 & 404.5**)
- \_\_\_\_\_ Concrete strength: 3000 psi minimum (**T301.2(1) per Ch.6 & T402.2**)
- \_\_\_\_\_ Dampproofing for masonry, concrete, & p/c concrete walls (406.1 & 406.4)
- \_\_\_\_\_ Backfill placement (404.1.7)
- \_\_\_\_\_ Foundation anchorage – bolts or straps (403.1.6)
- \_\_\_\_\_ Sill plate size, min. 2x4 nominal lumber, **anchored to foundation & pressure treated** (404.3, 403.1.6 & 317.1)
- \_\_\_\_\_ 6” minimum height above grade or \_\_\_\_\_ 4” min. if masonry veneer installed (404.1.6)
- \_\_\_\_\_ Foundation vents: 1 sq. ft. for each 150 sq. ft. (408.1)
- \_\_\_\_\_ Foundation access: min. 18” x 24” opening (408.4)
- \_\_\_\_\_ Surface drainage away from foundation (401.3)

**Foundation – Basement** (if applicable)

- \_\_\_\_\_ Masonry, concrete, p/c concrete, & retaining wall construction (**404.1.2, 404.1.3, 404.4 & 404.5**)
- \_\_\_\_\_ Concrete strength: 3000 psi min. (T402.2 & **T301.2(1) per Ch.6**)
- \_\_\_\_\_ Dampproofing & waterproofing for masonry and concrete wall (406.1 & **406.4**)
- \_\_\_\_\_ Foundation anchorage – bolts or straps (403.1.6)
- \_\_\_\_\_ Sill plate size, min. 2x4 nominal lumber, **anchored to foundation & pressure treated** (404.3, 403.1.6 & 317.1)
- \_\_\_\_\_ 6” minimum height above grade or \_\_\_\_\_ 4” min. if masonry veneer installed (404.1.6)
- \_\_\_\_\_ Perimeter foundation drain & sump (405.1 per Ch. 6)
- \_\_\_\_\_ Surface drainage away from foundation (401.3)

**Concrete Floor – On Ground**

- \_\_\_\_\_ Slab thickness: 3 1/2” min. (506.1)
- \_\_\_\_\_ Concrete strength: 2500 psi min. (T402.2)
- \_\_\_\_\_ 6 mil polyethylene vapor **retarder** (506.2.3)
- \_\_\_\_\_ Base course: min. 4” crushed stone or **other approved material wherever slab is below finished grade** (506.2.2)

**Column & Beams** (if applicable)

- \_\_\_\_\_ Protected from decay and corrosion (407.1 & 407.2)
- \_\_\_\_\_ Prevent lateral displacement at top & bottom ends (407.3 per Ch.6) **except bottom of interior column <48” in ht.**
- \_\_\_\_\_ Wood columns - min. 4” square; steel columns min. 3” dia. **Schedule 40 or approved equal** (407.3)

**Wood Floor** (connecting to existing cantilevered floor framing is prohibited without engineer approval)

- \_\_\_\_\_ Joists size and spacing noted on plans (502.2 & **T502.3**)
- \_\_\_\_\_ Joists adequate for loads (T301.5, T502.3.1, **502.3**)
- \_\_\_\_\_ Girder and header spans noted on plans (502.5, 602.7, **T602.7**)

**Wall Construction – Wood** (show location of all framing members, per 06.03.013 of Chapter 6)

- \_\_\_\_\_ Stud sizes and spacing depicted on plans (**602.1**, 602.2 & 602.3)
- \_\_\_\_\_ Girder and header spans sized properly (502.5 & 602.7) \_\_\_\_\_ **Strucalc used to verify or Tables under 602.7**
- \_\_\_\_\_ Exterior wall sheathing (**602.3**, 604 & 605) & \_\_\_\_\_ Wall bracing methods & locations depicted on plans (602.10)
- \_\_\_\_\_ Window/Door Installation (**flushed, caulked & operational**) & **Window Fall Protection – (703.4 & 312.2)**

**Wall Covering – Exterior Veneer** (if applicable)

- \_\_\_\_\_ Water-resistant sheathing paper (703.2, **703.3 & 703.4**)
- \_\_\_\_\_ Stone and Masonry veneer design (703.8 & Fig. 703.8) & treated wood in contact with masonry - 317.1(6)
- \_\_\_\_\_ Steel lintels sized adequately for openings (703.8.3)
- \_\_\_\_\_ Veneer ties: min. 32” o/c horz. & min. 24” o/c vert. and support 2.67 s.f. or less per tie (703.8.4)
- \_\_\_\_\_ Flashing noted accordingly (703.7.5)
- \_\_\_\_\_ Weep holes: max. 33” o/c: min. 3/16” dia. (703.7.6)
- \_\_\_\_\_ Exterior Plaster design (**703.7** per Ch. 6)
- \_\_\_\_\_ Weep screed installed at foundation plate (703.7.2.1)
- \_\_\_\_\_ Water-resistive barrier **for stucco** (703.7.3 per Ch. 6)

**Roof-Ceiling Construction** (connecting to existing cantilevered rafters is prohibited without engineer approval)

- \_\_\_\_\_ Wood trusses specified on plans (if applicable)
- \_\_\_\_\_ Truss design with tie-downs (802.10) & \_\_\_\_\_ Truss drawing submittal (802.10.2 & 06.03.013 of Chapter 6)
- \_\_\_\_\_ Rafters adequate for loads (**301.4**, T301.5, & **T802.4.1**)
- \_\_\_\_\_ Structural members supporting rafters  $\leq 3/12$  pitch, designed as beams (802.3 & **802.4.4**)
- \_\_\_\_\_ Ceiling joists adequate for loads, **limited attic storage, or living space** (**301.4**, T301.5, & 503.3.1 & **T802.5**)
- \_\_\_\_\_ Collar ties in upper third of attic space - spaced at max. 48” o/c (**802.4.6**)
- \_\_\_\_\_ Ridge beam depicted on plans, if applicable (802.3)
- \_\_\_\_\_ Roof sheathing depicted on plans (T503.2.1.1(1); 803.1; 803.2)
- \_\_\_\_\_ Roof ventilation noted on plans, screened to code, and with insulation baffle boards as necessary (806.1)
- \_\_\_\_\_ Attic access depicted on plans, **if attic meets min. height & area requirements**: min. 22”x 30” (807.1)

**Roof Assemblies**

- \_\_\_\_\_ Weather protection and covering, including underlayment & flashing (903,904, & 905)
- \_\_\_\_\_ Double underlayment noted on roofs, **if pitch between 2:12 and 4:12 (905.2.2 & T905.1.1(2), where applicable)**

**Fire Separation, Sprinklers, & Garage Door Openers**

- \_\_\_\_\_ No opening between garage & sleeping room (302.5.1) – or fire sprinkler protection
- \_\_\_\_\_ ½” Gypsum separating living area and garage (302.6 & Table 302.6 per Ch.6) - or fire sprinkler protection
- \_\_\_\_\_ Two (2) layers 5/8” Type X gypsum board or equivalent **on garage side of all** walls, posts, & floor-ceiling assembly, if habitable room above garage (Table 302.6 per Ch.6) or fire sprinkler protection
- \_\_\_\_\_ Door from living area to garage – minimum 20-min. fire-rating (302.5.1) - or fire sprinkler protection
- \_\_\_\_\_ Fire sprinklers (309.5 & 302.1(2) per Ch. 6)
- \_\_\_\_\_ Automatic garage door openers – listed & labeled per UL325 (309.4)
- \_\_\_\_\_ Exterior wall separation (**T302.1(1) & T302.1(2) & Exception for detached garage (302.1(3) per Ch.6**)

**Means of Egress**

- \_\_\_\_\_ Emergency egress shown for bedrooms, habitable attics, & finished basements (310.1)
- \_\_\_\_\_ Stairway design: min. 36” wide (**311.7**)
- \_\_\_\_\_ Risers 8” max. (311.7.5.1 per Ch.6); Treads 9” min., plus a 1” nosing (**311.7.5.2**)
- \_\_\_\_\_ Headroom 6’-8” min. from nosing or floor to sloped plane (311.7.2)
- \_\_\_\_\_ Handrail on one side @ 34” to 38” height (311.7.8)
- \_\_\_\_\_ Guardrails on raised floor surfaces above 30” (**312**) \_\_\_\_\_ Guard not less than 36” in height (**312.1.1**)

**Smoke or Fire Alarms & Carbon Monoxide Alarm**

- \_\_\_\_\_ Alarm locations shown on plans (314 per Ch.6); \_\_\_\_\_ Battery operated, if applicable (314.2.2 per Ch. 6)
- \_\_\_\_\_ Carbon monoxide alarm (**315 per Ch.6**); \_\_\_\_\_ Battery operated, if applicable (315.2.2 per Ch.6)

**Strucalc or Verification of Structural Members via ICC Table**

- \_\_\_\_\_ Wood floor joists (T502.3.1(1) & T502.3.1(2)) \_\_\_\_\_ Girder, Beam and Header (T602.7.1, .2, & .3)
- \_\_\_\_\_ Wood wall construction (T602.3(5)) \_\_\_\_\_ Wood ceiling joists (**T802.5.1(1)** & (2))
- \_\_\_\_\_ Wood rafters (**T802.4.1(1)** & (2))