

ORDINANCE NO. _____

1 AN ORDINANCE amending Chapter 20.10 of the Lincoln Municipal Code (“LMC”),
2 known as the Lincoln Residential Building Code, by amending Section 20.10.010 to adopt, except
3 as provided by specific amendment, the 2006 edition of the International Residential Code (“IRC”);
4 amending Section 20.10.020 relating to title, scope and purpose; adding a new Section 20.10.025
5 to amend IRC Section R102.1 relating to applicability; amending Section 20.10.040 relating to work
6 exempt from permit; adding a new Section 20.10.045 to add Section R105.4.1 to the IRC relating
7 to orders not stayed; amending Section 20.10.070 relating to fees; amending Section 20.10.080 to
8 increase reinspection fees; amending Section 20.10.100 relating to withholding of permits for lack
9 of inspections; amending Section 20.10.140 relating to certificates of occupancy; amending Section
10 20.10.160 relating to the Building Code Board of Appeals; adding a new Section 20.10.165 to
11 amend IRC Section R113.3 relating to prosecution of violations and failure to abate; adding a new
12 Section 20.10.175 to amend IRC Section R114 relating to failure to comply with stop work orders;
13 amending Section 20.10.180 relating to demolition of buildings; amending Section 20.10.190
14 relating to definitions; amending Section 20.10.200 to revise IRC Table R301.2(1), Climatic and
15 Geographic Design Criteria; amending Section 20.10.210 to renumber the IRC section and to revise
16 the Table relating to Minimum Uniformly Distributed Live Loads; amending Section 20.10.220 to
17 amend the IRC section number; amending Section 20.10.230 relating to exterior walls; adding a new
18 Section 20.10.235 to amend IRC Table R302.1 relating to exterior walls; amending Section
19 20.10.250 relating to ventilation of bathrooms; adding a new Section 20.10.253 to delete IRC

1 Sections R303.4, R303.4.1 and R303.4.2 relating to opening location; adding a new Section
2 20.10.255 to delete IRC Section R303.5 relating to opening protection; amending Section 20.10.260
3 relating to ceiling heights; adding a new Section 20.10.265 to amend IRC Section R306.2 relating
4 to kitchens; amending Section 20.10.270 to amend the IRC section number and to revise Figure
5 R307.1 relating to minimum fixture clearances; adding a new Section 20.10.273 to add Section
6 R307.3 to the IRC relating to access to whirlpool pumps; adding a new Section 20.10.275 to delete
7 IRC Sections R309.1.1 and R309.1.2 relating to duct penetration of garages; amending Section
8 20.10.280 relating to garage separation requirements; amending Section 20.10.290 relating to garage
9 headroom clearance; amending Section 20.10.300 relating to emergency escape and rescue
10 requirements; adding a new Section 20.10.315 to add Section R310.1.5 to the IRC relating to double
11 hung egress windows; amending Section 20.10.330 relating to landings at doors; amending Section
12 20.10.340 relating to stairways; repealing Section 20.10.350 relating to handrails; adding a new
13 Section 20.10.355 to amend IRC Section R312 relating to requirements for porch, balcony, ramp
14 or raised floor surface guards; amending Section 20.10.360 to amend the IRC section number;
15 amending Section 20.10.370 relating to two-family dwellings; amending Sections 20.10.380,
16 20.10.390, and 20.10.400 to amend the IRC section numbers; amending Section 20.10.410 relating
17 to moisture control; amending Section 20.10.420 relating to protection from decay; adding a new
18 Section 20.10.425 to delete IRC Section R319.1.2 relating to wood in contact with ground;
19 amending Section 20.10.430 relating to wood columns; amending Section 20.10.440 relating to
20 premises identification; amending Sections 20.10.450 and 20.10.460 to amend the IRC section
21 numbers; adding a new Section 20.10.462 to amend IRC Table R401.4.1 relating to load bearing
22 values; adding a new Section 20.10.464 to amend IRC Section R402.1.1 relating to minimum
23 footing sizes; adding a new Section 20.10.466 to amend IRC Table R403.1 relating to minimum

1 width of footings; adding a new Section 20.10.467 to amend IRC Figures 403.1(1), 403.1(2) and
2 403.1(3) relating to footings; adding a new Section 20.10.468 to amend IRC Section 403.1.4.1
3 relating to frost protection; amending Section 20.10.470 relating to foundation anchorage; adding
4 a new Section 20.10.475 to replace IRC Table R404.1.1(5) with IRC Figure R404.1.1(5) relating
5 to minimum reinforcement of residential poured walls; adding a new Section 20.10.476 to add
6 Figure R404.1.1(6) to the IRC relating to minimum concrete foundation corner detail; adding a new
7 Section 20.10.477 to add Figure R404.1.1(7) to the IRC relating to permanent masonry foundation
8 basement walls; amending Section 20.10.480 to revise the IRC section number; adding a new
9 Section 20.10.485 to add Section R502.2.3 to the IRC relating to fastener spacing recommendations;
10 amending Section 20.10.490 relating to allowable joint spans; adding a new Section 20.10.535 to
11 delete IRC Sections R702.3.8 and R702.3.8.1 relating to water-resistant gypsum backing board;
12 adding a new Section 20.10.537 to amend IRC Section R702.4.2 relating to gypsum backer board;
13 adding a new Section 20.10.545 to amend IRC Section R703.2 relating to water resistive barriers;
14 amending Section 20.10.550 to amend the IRC section number; amending Section 20.10.580 relating
15 to air space between sheathing and veneer; amending Section 20.10.620 relating to flashing;
16 amending Section 20.10.640 relating to weather protection for foot decks; amending Section
17 20.10.660 relating to reroofing; amending Section 20.10.670 relating to flue lining of masonry
18 chimneys; amending Sections 20.10.680 and 20.10.690 to amend the IRC section numbers; adding
19 a new Section 20.10.695 to delete IRC Section R1004 relating to factory built fireplaces; amending
20 Section 20.10.700 relating to the Energy Code; and repealing Sections 20.10.010, 20.10.020,
21 20.10.040, 20.10.070, 20.10.080, 20.10.100, 20.10.140, 20.10.160, 20.10.180, 20.10.190, 20.10.200,
22 20.10.210.. 20.10.220, 20.10.230, 20.10.250, 20.10.260, 20.10.270, 20.10.280, 20.10.290, 20.10.300,
23 20.10.330, 20.10.340, 20.10.360, 20.10.370, 20.10.380, 20.10.390, 20.10.400, 20.10.410, 20.10.420,

1 20.10.430, 20.10.440, 20.10.450, 20.10.460, 20.10.470, 20.10.480, 20.10.480, 20.10.550, 20.10.580,
2 20.10.620, 20.10.640, 20.10.660, 20.10.670, 20.10.680, 20.10.690, 20.10.700 of the Lincoln
3 Municipal Code as hitherto existing.

4 BE IT ORDAINED by the City Council of the City of Lincoln, Nebraska:

5 Section 1. That Section 20.10.010 of the Lincoln Municipal Code be amended to read
6 as follows:

7 **20.10.010 Adoption of ~~2000~~ 2006 International Residential Code.**

8 Except as hereinafter provided by specific amendment, the International Residential Code
9 for One-and Two-Family Dwellings, ~~2000~~ 2006 Edition (~~Second~~ First Printing), hereinafter referred
10 to as the International Residential Code is hereby adopted and incorporated into Title 20 of the
11 Lincoln Municipal Code.

12 One printed copy of the above publication has been filed in the office of the City Clerk for
13 use of and examination by the public.

14 Section 2. That Section 20.10.020 of the Lincoln Municipal Code be amended to read
15 as follows:

16 **20.10.020 Section R101 Amended; Title, Scope and Purpose.**

17 Section R101 of the International Residential Code is amended to read as follows:

18 **R101.1 Title.** These provisions shall be known as the Residential Code for One- and Two-
19 Family Dwellings of the City of Lincoln, Lancaster County, Nebraska, and shall be cited as such and
20 will be referred to herein as “this code.”

21 **R101.2 Scope.** The provisions of the *International Residential Code for One- and Two-*
22 *Family Dwellings* shall apply to the construction, alteration, movement, enlargement, replacement,
23 repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-
24 family dwellings and multiple single-family dwellings (townhouses) not more than three stories
25 above grade in height with a separate means of egress and their accessory structures with the city
26 or within three miles of the corporate limits of the city and outside of any other organized city or
27 village not more than three stores in height with a separate means of egress and their accessory
28 structures.

1 **R101.3 Purpose.** The purpose of this code is to provide minimum standards to safeguard
2 life or limb, health, property, and public welfare by regulating and controlling the design,
3 construction, quality of materials, use and occupancy, location, and maintenance of all buildings and
4 structures within the city and within three miles of the corporate limits of the city and outside of any
5 other organized city or village, and regulating certain equipment specified herein.

6 The purpose of this code is not to create or otherwise establish or designate any particular
7 case or group of persons who will or should be especially protected or benefitted by the terms of this
8 code.

9 Section 3. That Chapter 20.10 of the Lincoln Municipal Code be amended by adding
10 a new section numbered 20.10.025 to read as follows:

11 **20.10.025 Section R102.1 Amended; Applicability; General.**

12 Section R102.1 of the International Residential Code is amended to read as follows:

13 **R102.1 General.** Where, in any specific case, different sections of this code specify
14 different materials, methods of construction or other requirements, the most restrictive shall govern.
15 Where there is a conflict between a general requirement and a specific requirement, the specific
16 requirement shall be applicable. Where there is a conflict between the International Residential
17 Code, as adopted or amended, any other section of the Lincoln Municipal Code, or recommendation
18 or requirement from a manufacturer, the most restrictive shall govern.

19 Section 4. That Section 20.10.040 of the Lincoln Municipal Code be amended to read
20 as follows:

21 **20.10.040 Section R105.2 Amended; Work Exempt From Permit.**

22 Section R105.2 of the International Residential Code is amended to read as follows:

23 **R105.2 Work exempt from permit.** Permits shall not be required for the following.
24 Exemption from the permit requirements of this code shall not be deemed to grant authorization for
25 any work to be done in any manner in violation of the provisions of this code or any other laws or
26 ordinances of this jurisdiction.

27 Building:

- 28 1. Fences not over 6 feet 4 inches high.
29 2. Retaining walls that are not over 4 feet in height measured from the bottom of the
30 footing to the top of the wall, unless supporting a surcharge.

1 3. Water tanks supported directly upon grade if the capacity does not exceed 5,000
2 gallons and the ratio of height to diameter or width does not exceed 2 to 1.

3 4. Shingling and residing.

4 5. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.

5 6. Prefabricated, temporary, frameless, softside swimming pools that ~~are less than 24~~
6 ~~inches deep~~ have a depth of 48 inches or less. Swimming pools are further regulated by Lincoln
7 Municipal Code Chapters 8.36 and 8.38.

8 7. Swings and other playground equipment accessory to a one- or two-family dwelling.

9 8. Window awnings supported by an exterior wall.

10 Note: Replacement windows are not exempted from permits. Permits and
11 inspections are necessary to determine if egress and tempered glass requirements have
12 been met.

13 **R105.2.1 Emergency repairs.** Where equipment replacements and repairs must be
14 performed in an emergency situation, the permit application shall be submitted within the next
15 working business day to the building official.

16 **R105.2.2 Repairs; Deleted.**

17 **R105.2.3 Public service agencies; Deleted.**

18 Section 5. That Chapter 20.10 of the Lincoln Municipal Code be amended by adding
19 a new section numbered 20.10.045 to read as follows:

20 **20.10.045 Section R105.4.1 Added; Orders Not Stayed.**

21 Section R105.4.1 is added to the International Residential Code to read as follows:

22 **R105.4.1 Orders not stayed.** Orders, deadlines, provisions and/or penalties established
23 by the Building Official or any other officer or other designated authority with the City of Lincoln
24 charged with the administration and enforcement of any code or ordinance under the Lincoln
25 Municipal Code shall not be stayed or nullified because of the issuance or granting of a building
26 permit.

27 Section 6. That Section 20.10.070 of the Lincoln Municipal Code be amended to read
28 as follows:

1 **20.10.070 Section R108 Amended; Fees.**

2 Section R108 of the International Residential Code is amended to read as follows:

3 **SECTION R108 - FEES**

4 **R108.1 General.** Fees shall be assessed in accordance with the provisions of this section
5 or shall be as set forth in the fee schedule adopted in the following sections.

6 **R108.2 Permit fees.** The fee for each permit shall be as set forth in Table No. 1A.

7 The determination of value or valuation to be used in computing the building permit and
8 building plan review fees shall be the total value of all construction work for which the permit is
9 issued, as well as all finish work, painting, roofing, electrical, plumbing, heating, air conditioning,
10 elevators, fire extinguishing systems and any other permanent equipment. The building official may
11 determine valuation by applying the ~~I.C.B.O.~~ I.C.C. valuation or other recognized method of
12 estimating building construction project cost.

13 The value or valuation used by the building official in computing the building permit and
14 plan review fees is only an estimate and is not intended to be used as conclusive evidence of the
15 actual value of all construction work for which the permit is issued as well as all finish work,
16 painting, roofing, electrical, plumbing, heating, air conditioning, elevators, fire extinguishing
17 systems and any other permanent equipment for purposes of determining whether said value exceeds
18 a certain percentage of the fair market value of the building in question.

19 **R108.3 Plan review fees.** When a plan or other data are required to be submitted by Section
20 R105.3, a plan review fee shall be paid at the time of submitting plans and specifications for review.
21 Said plan review fee shall be an amount equal to ~~20%~~ 30% of the building permit fee shown in
22 Table 1A, for residential buildings of one and two dwelling units. At time of submittal for an
23 application for a building permit for residential buildings of one- and two-family dwelling units, a
24 permit deposit of \$100.00 shall be made by the applicant.

25 The plan review fees in this subsection are separate from and in addition to the permit fees
26 specified in Section R108.2 and shall not be credited to the total building permit fee if such permit
27 is issued. There shall be no refund for plan review after any plan review has been completed by the
28 Department of Building and Safety, even if the application is withdrawn.

29 One additional plan review of corrections made on the original plans after the initial plan
30 review shall be performed at no cost to the applicant; however, where plans require further

1 corrections, are incomplete, or are changed necessitating additional plan review, an additional plan
2 review fee shall be charged at the rate of ten percent of the total permit fee or \$50.00, whichever is
3 greater, for each additional review. Limited permit applications will be subject to additional plan
4 review fees as specified in this section.

5 Single-family and duplex limited permit reviews will be subject to an additional plan review
6 fee at the rate of ten percent of the total building permit fee or \$100.00, whichever is greater.

7 ~~**R108.4 Thermal insulation fees.** A fee for each building or structure which is required to
8 provide thermal design and insulation in accordance with the provisions of Chapter 13 of this code
9 shall be paid to the building official. The permit fee shall be equal to ten percent of the building
10 permit fee set forth elsewhere herein for accessory buildings, apartments, and residential buildings
11 of one- and two-dwelling units.~~

12 **R108.54 Development permit fees.**

13 **R108.54.1** A fee shall be assessed for any flood plain development permit applied for under
14 Lincoln Municipal Code Chapters 27.52 and 27.53 ~~27.55~~ and shall be paid at the time of application
15 therefor. The fee for each permit shall be as follows:

16 (1) ~~For all development involving the new construction of buildings or other
17 structures and substantial improvements thereto, except accessory buildings associated with single-
18 and two-family dwellings, an amount equal to ten percent of the building permit fee as established
19 under this code or as the same may be amended, with a minimum fee of \$150.00.~~

20 ~~—————(2) Mobile home placement and construction of accessory buildings associated with
21 single- and two-family dwellings - \$50.00.~~

22 ~~—————(3) All other development permits - \$100.00.~~

23 **Flood Plain Development Permit Fees**

24	<u>Flood Plain Permit</u>	<u>15% of Building Fee (\$250.00 Minimum)</u>
25	<u>Flood Plain - All other Development</u>	
26	<u>(roads, trails, pipelines)</u>	<u>\$250.00</u>
27	<u>Flood Plain Permit – Fill</u>	<u>\$250.00</u>
28		<u>+ \$50.00 per acre (\$2,500.00 Maximum)</u>
29	<u>Flood Plain – Mobile Home Placement</u>	<u>\$50.00</u>
30	<u>Floodplain – Accessory Buildings</u>	<u>\$50.00</u>
31	<u>Flood Plain – Residential</u>	
32	<u>Non-substantial Improvement</u>	<u>\$100.00</u>

1 **R108.54.2** In those cases where a development permit is required for a structure, but a
2 building permit is not required, the value of construction as determined by Section R108.2 of this
3 code shall be used to calculate the development permit fee.

4 **R108.54.3** Any work requiring a development permit commenced prior to the issuance of
5 the permit shall result in the assessment of an investigation fee in accordance with Section R108.76
6 of this code, which investigation fee shall be in addition to the development permit fee.

7 **R108.54.4** The building official may refund not more than two-thirds of the development
8 permit fee when an application for which such fee has been paid is withdrawn or canceled prior to
9 commencement of plan review.

10 **R108.65 Expiration of plan review.** Applications for which no permit is issued within 180
11 days following the date of application shall expire by limitation, and plans and other data submitted
12 for review may thereafter be returned to the applicant or destroyed by the building official. The
13 building official may extend the time for action by the applicant for a period not exceeding 180 days
14 on request by the applicant prior to the expiration date showing that circumstances beyond the
15 control of the applicant have prevented action from being taken. No application shall be extended
16 more than once. In order to renew action on an application after expiration, the applicant shall
17 resubmit plans and pay ~~a new plan review fee~~ all new Building and Safety Department permit fees.

18 **R108.76 Investigation fees.** Work without a permit.

19 **R108.76.1 Investigation.** Whenever any work for which a permit is required by this code
20 has been commenced without first obtaining said permit, a special investigation shall be made before
21 a permit may be issued for such work.

22 **R108.76.2 Fee.** An investigation fee, in addition to the permit fee, shall be collected
23 whether or not a permit is then or subsequently issued. The investigation fee shall be equal to the
24 amount of the permit fee required by this code. The minimum investigation fee shall be the same
25 as the minimum fee set forth in Table 1-A. The payment of such investigation fee shall not exempt
26 any person from compliance with all other provisions of this code nor from any penalty prescribed
27 by law.

28 **R108.87 Fee refunds.** There shall be no refunds or credits given on permits or applications
29 regulated by this chapter which have expired. Permit holders returning an unused permit prior to
30 the expiration date of the permit shall be limited to a maximum refund amounting to two-thirds of

1 the total building permit ~~and insulation~~ fee, with the remaining one-third to be used to pay ~~in part~~
2 the cost of processing the permit. The building official may authorize refunding of not more than
3 two-thirds of the plan review fee or permit deposit paid when an application for a permit for which
4 such fee has been paid is withdrawn or canceled before any plan reviewing is done.

5 No refund shall be issued on a permit deposit or plan review fee, flood plain development
6 fee, demolition fee, or any other fee collected by the department, where the refund amount is less
7 than ~~\$30.00~~ \$50.00. Where a fee has been collected in error, the building official may authorize a
8 100% refund.

9 Section 7. That Section 20.10.080 of the Lincoln Municipal Code be amended to
10 read as follows:

11 **20.10.080 Table No. 1-A Added; Building Permit Fees.**

12 Table No. 1-A is added to the International Residential Code to read as follows:

13 **TABLE 1-A – BUILDING PERMIT FEES**

Total Valuation	Fee
\$0 to and including \$1,000	\$30.00
Each additional \$1,000 or fraction thereof in excess of \$1,000	\$ 2.00
Reinspection fee (wrong address, work does not pass inspection, work not complete, etc.)	\$35.00 <u>\$50.00</u>

20 Section 8. That Section 20.10.100 of the Lincoln Municipal Code be amended to
21 read as follows:

22 **20.10.100 Section R109.1 Amended; Types of Inspections.**

23 Section R109.1 of the International Residential Code is amended to read as follows:

24 **R109.1 Types of inspections.** All construction or work for which a permit is required shall
25 be subject to inspection by the building official and all such construction work shall remain
26 accessible and exposed for inspection purposes until approved by the building official.

27 Approval as a result of an inspection shall not be construed to be an approval of a violation
28 of the provisions of this code or of other ordinances of the city. Inspections presuming to give

1 authority to violate or cancel the provisions of this code or of other ordinances of the city shall not
2 be valid.

3 A survey of the lot or lots upon which permitted work for additions, alterations, or repairs
4 are being accomplished shall be provided by a duly licensed surveyor of the State of Nebraska
5 before plans and specifications shall be accepted by the building official to verify compliance of the
6 construction or work with building line setback requirements of the Lincoln Municipal Code. All
7 boundary corners of a lot or lots with permanent survey monuments shall be marked in the field by
8 a duly licensed surveyor of the State of Nebraska.

9 It shall be the duty of the permit applicant to cause the work to remain accessible and
10 exposed for inspection purposes. Neither the building official nor the city shall be liable for expense
11 entailed in the removal or replacement of any material required to allow inspection.

12 In the event any permit holder or permit holder's agent shall fail to request required
13 inspections as herein provided or in the event any permit holder or permit holder's agent shall have
14 a backlog of one or more permits with no final inspections completed, the building official is
15 authorized to withhold further issuance of any permit or perform any further inspections under this
16 code to said permit holder or the permit holder's agent until required inspections have been
17 completed as provided by this code.

18 Section 9. That Section 20.10.140 of the Lincoln Municipal Code be amended to
19 read as follows:

20 **20.10.140 Section R110 Amended; Certificate of Occupancy.**

21 Section R110 of the International Residential Code is amended to read as follows:

22 **SECTION R110 – CERTIFICATE OF OCCUPANCY**

23 **R110.1 Use or and occupancy.** No building or structure other than Group U occupancies,
24 shall be used or occupied, and no change in the existing use or occupancy classification of a building
25 or structure or portion thereof shall be made until the building official has issued a certificate of
26 occupancy therefor, as provided in Chapter 27.77 of the Lincoln Municipal Code.

27 It shall be the responsibility of a permit holder or the permit holder's agent to call for all
28 required inspections, including the final inspection, of all additions, alterations, or repairs performed
29 under a plumbing, mechanical, electrical or building permit. Final inspection shall be called for by
30 the permit holder or the permit holder's agent prior to occupancy of the building or structure or

1 portion thereof. In the event any permit holder or permit holder's agent shall fail to call for ~~final~~
2 required inspections as herein provided or in the event any permit holder or permit holder's agent
3 shall have a backlog of one or more permits with no final inspections completed, the building
4 official is authorized to withhold further issuance of any permit or perform any further inspections
5 under this code to said permit holder or the permit holder's agent until ~~final~~ required inspections
6 have been completed as provided by this code. Written notice shall be given to the permit holder by
7 the Building Official.

8 **R110.2 Change in use.** Changes in the character or use of a building shall not be made
9 except as specified in Section ~~3405~~ 3406 of the International Building Code.

10 **R110.3 Certificate issued.** After the Building Official performs a final inspection and
11 observes that the required sidewalks along the frontage of any residential zoned single-family or
12 two-family lot abutting upon a local or collector street have been installed, a certificate of occupancy
13 shall be issued when it is found that the building or structure complies with requirements of issuance
14 set forth in Chapter 27.77 of the Lincoln Municipal Code.

15 **R110.4 Temporary certificate.** If the Building Official finds that no substantial hazard will
16 result from occupancy of any building or portion thereof before the same is completed, a temporary
17 certificate of occupancy may be issued for the use of a portion or portions of a building or structure
18 prior to the completion of the entire building or structure and issuance of the certificate of
19 occupancy. If the temporary certificate of occupancy is issued for a single- or two-family dwelling
20 located upon a single- or two-family lot abutting upon a local or collector street, the temporary
21 certificate of occupancy shall be conditioned upon the sidewalks along the frontage of said lot being
22 constructed during the same or next construction season.

23 **R110.4.1 Temporary certificate limitations.** Each temporary certificate of
24 occupancy shall be limited to a term to be determined by the building official.

25 **R110.5 Revocation.** The building official may, in writing, suspend or revoke a certificate
26 of occupancy issued under the provisions of this code whenever the certificate is issued in error, or
27 on the basis of incorrect information supplied, or when it is determined that the building or structure
28 or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code.

29 Section 10. That Section 20.10.160 of the Lincoln Municipal Code be amended to
30 read as follows:

1 **20.10.160 Section R112 Amended; Board of Appeals.**

2 Section R112 of the International Residential Code is amended to read as follows:

3 **SECTION R112 – BOARD OF APPEALS**

4 **R112.1 Building Code Board of Appeals.** The appeals board adopted under Lincoln
5 Municipal Code ~~§20.08.140~~ Section 20.08.150 pursuant to Section 112 of the International Building
6 Code as amended by the City of Lincoln, shall serve as the appeals board for this code.

7 **R112.2 Limitations on authority - Deleted.**

8 **R112.2.1 Determination of substantial improvement in acres prone to flooding -**
9 **Deleted.**

10 **R112.2.2 Criteria for issuance of a variance for areas prone to flooding - Deleted.**

11 **R112.3 Qualifications - Deleted.**

12 **R112.4 Administration - Deleted.**

13 Section 11. That Chapter 20.10 of the Lincoln Municipal Code be amended by
14 adding a new section numbered 20.10.165 to read as follows:

15 **20.10.165 Section R113.3 Amended; Prosecution of Violation.**

16 Section R113.3 of the International Residential Code is amended to read as follows:

17 **R113.3 Prosecution of Violation.** If the notice of violation is not complied with and the
18 abatement or correction of the violation is not completed within the time frame given in the notice
19 of violation, the Building Official may withhold issuance of any further building permits and may
20 withhold any further inspection pending compliance with the order of abatement or correction and
21 the Building Official is authorized to request the legal counsel of the jurisdiction to institute the
22 appropriate proceeding at law or in equity to restrain, correct, or abate such violation, or to require
23 the removal or termination of the unlawful occupancy of the building or structure in violation of the
24 provisions of this code or of the order or direction made pursuant thereto.

25 Section 12. That Chapter 20.10 of the Lincoln Municipal Code be amended by
26 adding a new section numbered 20.10.175 to read as follows:

27 **20.10.175 Section R114 Amended; Stop Work Order.**

28 Section R114 of the International Residential Code is amended to read as follows:

29 **R114.1 Notice to owner.** Upon notice from the Building Official that work on any
30 building or structure is being prosecuted contrary to the provisions of this code or in an unsafe and

1 dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing
2 and shall be given to the owner of the property involved, or to the owner's agent, or to the person
3 doing the work, and shall state the conditions under which work shall be permitted to resume. If the
4 owner or owner's agent fails to comply with the stop work order or fails to correct any violations
5 or unsafe and dangerous work practices ordered to be abated or corrected within thirty days or the
6 time frame given in the stop work order, the Building Official shall withhold issuance of any further
7 building permits and withhold any further inspections pending compliance with the stop work order
8 and abatement or correction of any violations or unsafe and dangerous work practices.

9 **R114.2 Unlawful continuance.** Any person who shall continue any work in or about the
10 structure after having been served with a stop work order, except such work as that person is
11 directed to perform to remove a violation or unsafe condition, shall be subject to penalties as
12 prescribed by law.

13 **R114.3 Time to correct violations.** The International Residential Code violations or any
14 other Lincoln Municipal Code violations stated in the stop work order shall be abated within thirty
15 days, unless directed otherwise by the Building Official, or be subject to penalties as prescribed in
16 this code.

17 Section 13. That Section 20.10.180 of the Lincoln Municipal Code be amended to
18 read as follows:

19 **20.10.180 Section R115 Added; Demolition of Buildings.**

20 Section R115 is added to the International Residential Code to read as follows:

21 **SECTION R115 – DEMOLITION OF BUILDINGS**

22 **R115.1 General.** Demolition of buildings shall comply with Section 3303 of the
23 International Building Code as adopted by the City of Lincoln in the Lincoln Municipal Code.
24 Demolition ~~permits~~ must start within thirty days and be completed in sixty days after the date the
25 permit was issued. ~~with~~The Building Official ~~having the ability to~~ may extend a demolition permit
26 an additional thirty days. Applications for demolition permits shall expire 180 days after the
27 application date.

28 Section 14. That Section 20.10.190 of the Lincoln Municipal Code be amended to
29 read as follows:

1 **20.10.190 Section R202 Amended; Definitions.**

2 Section R202 of the International Residential Code is amended to read as follows:

3 **SECTION R202 – DEFINITIONS**

4 Other than the following, all definitions are adopted as printed in the 2006 International
5 Residential Code:

6 **ACCESSORY STRUCTURE.** A structure not greater than 1,800 square feet in floor area,
7 the use of which is customarily accessory to and incidental to that of the dwelling(s) and which is
8 located on the same lot.

9 **KITCHEN.** A facility for cooking, storing, and preparing food. A kitchen shall include a
10 stove, refrigerator, sink, and a minimum of 4 lineal feet of counter space.

11 ~~—— **ACCESSIBLE.** Signifies access that requires the removal of an access panel or similar~~
12 ~~removable obstruction:~~

13 ~~—— **ACCESSIBLE, READILY.** Signifies access without the necessity for removing a panel or~~
14 ~~similar obstruction:~~

15 ~~—— **ACCESSORY STRUCTURE.** In one- and two-family dwellings not more than three stories~~
16 ~~high with separate means of egress, a building, the use of which is incidental to that of the main~~
17 ~~building and which is located on the same lot.~~

18 ~~—— **ADDITION.** An extension or increase in floor area or height of a building or structure.~~

19 ~~—— **ALTERATION.** Any construction or renovation to an existing structure other than repair~~
20 ~~or addition that requires a permit. Also, a change in a mechanical system that involves an extension,~~
21 ~~addition or change to the arrangement, type or purpose of the original installation that requires a~~
22 ~~permit.~~

23 ~~—— **ANCHORS.** See “Supports.”~~

24 ~~—— **APPLIANCE.** A device or apparatus that is manufactured and designed to utilize energy~~
25 ~~and for which this code provides specific requirements:~~

26 ~~—— **APPROVED.** Approved refers to approval by the building official as the result of~~
27 ~~investigation and tests conducted by him or her, or by reason of accepted principles or tests by~~
28 ~~nationally recognized organizations.~~

29 ~~—— **APPROVED AGENCY.** An established and recognized agency regularly engaged in~~
30 ~~conducting tests or furnishing inspection services, when such agency has been approved by the~~
31 ~~building official:~~

32 ~~—— **ATTIC.** The unfinished space between the ceiling joists of the top story and the roof rafters.~~

33 ~~—— **BALCONY, EXTERIOR.** An exterior floor projecting from and supported by a structure~~
34 ~~without additional independent supports:~~

35 ~~—— **BASEMENT.** That portion of a building that is partly or completely below grade (see “Story~~
36 ~~above grade”).~~

37 ~~—— **BASEMENT WALL.** The opaque portion of a wall that encloses one side of a basement and~~
38 ~~has an average below grade wall area that is 50 percent or more of the total opaque and non-opaque~~
39 ~~area of that enclosing side.~~

1 ~~————~~ **BASIC WIND SPEED.** Three-second gust speed at 33 feet (10 058 mm) above the ground
2 in Exposure C (see Section R301.2.1) as given in Figure R301.2(4).

3 ~~————~~ **BOND BEAM.** A horizontal grouted element within masonry in which reinforcement is
4 embedded.

5 ~~————~~ **BRACED WALL LINE.** A series of braced wall panels constructed in accordance with
6 Section R602.10 for wood framing or Section R603.7 or R603.8.1.2 for cold-formed steel
7 framing to resist racking from seismic and wind forces.

8 ~~————~~ **BRACED WALL PANEL.** A section of a braced wall line constructed in accordance with
9 Section R602.10 for wood framing or Section R603.7 or R603.8.1.2 for cold-formed steel
10 framing, which extend the full height of the wall.

11 ~~————~~ **BUILDING.** Building shall mean any one- and two-family dwelling or portion thereof,
12 including townhouses, that is used, or designed or intended to be used for human habitation, for
13 living, sleeping, cooking or eating purposes, or any combination thereof, and shall include accessory
14 structures thereto.

15 ~~————~~ **BUILDING DRAIN.** The lowest piping that collects the discharge from all other drainage
16 piping inside the house and conveys it to the building sewer 30 inches (762 mm) outside the building
17 wall.

18 ~~————~~ **BUILDING, EXISTING.** Existing building is a building erected prior to the adoption of
19 this code, or one for which a legal building permit has been issued.

20 ~~————~~ **BUILDING LINE.** The line established by law, beyond which a building shall not extend,
21 except as specifically provided by law.

22 ~~————~~ **BUILDING OFFICIAL.** The officer or other designated authority charged with the
23 administration and enforcement of this code.

24 ~~————~~ **BUILDING SEWER.** That part of the drainage system that extends from the end of the
25 building drain and conveys its discharge to a public sewer, private sewer, individual sewage-disposal
26 system or other point of disposal.

27 ~~————~~ **BUILDING THERMAL ENVELOPE.** The basement walls, exterior walls, floor, roof and
28 any other building element that enclose conditioned spaces.

29 ~~————~~ **BUILT-UP ROOF COVERING.** Two or more layers of felt cemented together and
30 surfaced with a cap sheet, mineral aggregate, smooth coating or similar surfacing material.

31 ~~————~~ **CEILING HEIGHT.** The clear vertical distance from the finished floor to the finished
32 ceiling.

33 ~~————~~ **CHIMNEY.** A primary vertical structure containing one or more flues, for the purpose of
34 carrying gaseous products of combustion and air from a fuel-burning appliance to the outside
35 atmosphere.

36 ~~————~~ **CHIMNEY CONNECTOR.** A pipe that connects a fuel-burning appliance to a chimney.

37 ~~————~~ **CHIMNEY TYPES. Residential-type appliance.** An approved chimney for removing the
38 products of combustion from fuel-burning, residential-type appliances producing combustion gases
39 not in excess of 1,000°F (538°C) under normal operating conditions, but capable of producing
40 combustion gases of 1,400°F (760°C) during intermittent forces firing for periods up to 1 hour. All
41 temperatures shall be measured at the appliance flue outlet. Residential-type appliance chimneys
42 include masonry and factory-built types.

43 ~~————~~ **CLADDING.** The exterior materials that cover the surface of the building envelope that is
44 directly loaded by the wind.

45 ~~————~~ **CLOSET.** A small room or chamber used for storage.

1 ~~————~~ **COMBUSTIBLE MATERIAL.** Any material not defined as noncombustible.

2 ~~————~~ **CONDITIONED SPACE.** For energy purposes, space within a building that is provided

3 with heating and/or cooling equipment or systems capable of maintaining, through design or heat

4 loss/gain, 50°F (10°C) during the heating season and 85°F (29°C) during the cooling season, or

5 communicates directly with a conditioned space. For mechanical purposes, an area, room or space

6 being heated or cooled by any equipment or appliance.

7 ~~————~~ **CONSTRUCTION DOCUMENTS.** Written, graphic and pictorial documents prepared or

8 assembled for describing the design, location and physical characteristics of the elements of a project

9 necessary for obtaining a building permit. Construction drawings shall be drawn to an appropriate

10 scale.

11 ~~————~~ **CORROSION RESISTANT.** Any nonferrous metal or any metal having an unbroken

12 surfacing of nonferrous metal, or steel with not less than 10-percent chromium or with not less than

13 0.20-percent copper.

14 ~~————~~ **COURT.** A space, open and unobstructed to the sky, located at or above grade level on a lot

15 and bounded on three or more sides by walls or a building.

16 ~~————~~ **CROSS CONNECTION.** Any connection between two otherwise separate piping systems

17 whereby there may be a flow from one system to the other.

18 ~~————~~ **DALLE GLASS.** A decorative composite glazing material made of individual pieces of

19 glass that are embedded in a cast matrix of concrete or epoxy.

20 ~~————~~ **DEAD LOADS.** The weight of all materials of construction incorporated into the building,

21 including but not limited to walls, floors, roofs, ceilings, stairways, built-in partitions, finishes,

22 cladding, and other similarly incorporated architectural and structural items, and fixed service

23 equipment.

24 ~~————~~ **DECK.** An exterior floor system supported on at least two opposing sides by an adjoining

25 structure and/or posts, piers, or other independent supports.

26 ~~————~~ **DECORATIVE GLASS.** A carved, leaded or Dalle glass or glazing material whose purpose

27 is decorative or artistic, not functional, whose coloring, texture or other design qualities or

28 components cannot be removed without destroying the glazing material, and whose surface, or

29 assembly into which it is incorporated, is divided into segments.

30 ~~————~~ **DESIGN PROFESSIONAL.** See definition of “Registered design professional.”

31 ~~————~~ **DIAMETER.** Unless specifically stated, the term “diameter” is the nominal diameter as

32 designated by the approved material standard.

33 ~~————~~ **DIAPHRAGM.** A horizontal or nearly horizontal system acting to transmit lateral forces

34 to the vertical resisting elements. When the term “diaphragm” is used, it includes horizontal bracing

35 systems.

36 ~~————~~ **DRAFT STOP.** A material, device or construction installed to restrict the movement of air

37 within open spaces of concealed areas of building components such as crawl spaces, floor-ceiling

38 assemblies, roof-ceiling assemblies and attics.

39 ~~————~~ **DUCT SYSTEM.** A continuous passageway for the transmission of air which, in addition

40 to ducts, includes duct fittings, dampers, plenums, fans and accessory air-handling equipment and

41 appliances.

42 ~~————~~ **DWELLING.** Any building that contains one or two dwelling units used, intended, or

43 designed to be built, used, rented, leased, let or hired out to be occupied, or that are occupied for

44 living purposes.

1 ~~————~~ **DWELLING UNIT.** A single unit providing complete independent living facilities for one
2 or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

3 ~~————~~ **EMERGENCY ESCAPE AND RESCUE OPENING.** An operable window, door or
4 similar device that provides for a means of escape and access for rescue in the event of an
5 emergency.

6 ~~————~~ **EQUIPMENT.** All piping, ducts, vents, control devices and other components of systems
7 other than appliances that are permanently installed and integrated to provide control of
8 environmental conditions for buildings. This definition shall also include other systems specifically
9 regulated in this code.

10 ~~————~~ **EXTERIOR INSULATION FINISH SYSTEMS (EIFS).** Synthetic stucco cladding
11 systems typically consisting of five layers: adhesive, insulation board, base coat into which
12 fiberglass reinforcing mesh is embedded, and a finish coat in the desired color.

13 ~~————~~ **EXTERIOR WALL.** An above-grade wall enclosing conditioned space. Includes between
14 floor spandrels, peripheral edges of floors, roof and basement knee walls, dormer walls, gable end
15 walls, walls enclosing a mansard roof, and basement walls with an average below grade wall area
16 that is less than 50 percent of the total opaque and nonopaque area of that enclosing side.

17 ~~————~~ **FACTORY-BUILT CHIMNEY.** A listed and labeled chimney composed of factory-made
18 components assembled in the field in accordance with the manufacturer's instructions and the
19 conditions of the listing.

20 ~~————~~ **FENESTRATION.** Skylights, roof windows, vertical windows (whether fixed or moveable);
21 opaque doors; glazed doors; glass block; and combination opaque/glazed doors.

22 ~~————~~ **FIRE BLOCKING.** Building materials installed to resist the free passage of flame to other
23 areas of the building through concealed spaces.

24 ~~————~~ **FIREPLACE.** An assembly consisting of a hearth and fire chamber of noncombustible
25 material and provided with a chimney, for use with solid fuels.

26 ~~————~~ **Factory-built fireplace.** A listed and labeled fireplace and chimney system composed of
27 factory-made components, and assembled in the field in accordance with manufacturer's
28 instructions and the conditions of the listing.

29 ~~————~~ **Masonry chimney.** A field-constructed chimney composed of solid masonry units, bricks,
30 stones or concrete.

31 ~~————~~ **Masonry fireplace.** A field-constructed fireplace composed of solid masonry units, bricks,
32 stones or concrete.

33 ~~————~~ **FIREPLACE STOVE.** A free-standing, chimney-connected solid-fuel-burning heater
34 designed to be operated with the fire chamber doors in either the open or closed position.

35 ~~————~~ **FIREPLACE THROAT.** The opening between the top of the firebox and the smoke
36 chamber.

37 ~~————~~ **FIRE SEPARATION DISTANCE.** The distance measured from the building face to the
38 closest interior lot line, to the centerline of a street, alley or public way, or to an imaginary line
39 between two buildings on the property. The distance shall be measured at right angles from the lot
40 line.

41 ~~————~~ **FLAME SPREAD.** The propagation of flame over a surface.

42 ~~————~~ **FLAME SPREAD INDEX.** The numeric value assigned to a material tested in accordance
43 with ASTM E 84.

1 ~~————~~ **FOAM PLASTIC INSULATION.** A plastic that is intentionally expanded by the use of
2 a foaming agent to produce a reduced-density plastic consisting open or closed cells distributed
3 throughout the plastic and that has a density less than 20 pounds per cubic foot (320 kg/m³).

4 ~~————~~ **GLAZING AREA.** The interior surface area of all glazed fenestration, including the area
5 of sash, curbing or other framing elements, that enclose conditioned space. Includes the area of
6 glazed fenestration assemblies in walls bounding conditioned basements.

7 ~~————~~ **GRADE.** The finished ground level adjoining the building at all exterior walls.

8 ~~————~~ **GRADE FLOOR OPENING.** A window or other opening located such that the sill height
9 of the opening is not more than 44 inches (1118 mm) above or below the finished ground level
10 adjacent to the opening.

11 ~~————~~ **GRADE PLANE.** A reference plane representing the average of the finished ground level
12 adjoining the building at all exterior walls.

13 ~~————~~ **GROSS AREA OF EXTERIOR WALLS.** The normal projection of all exterior walls,
14 including the area of all windows and doors installed therein.

15 ~~————~~ **GUARD.** A building component or a system of building components located near the open
16 sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface
17 to the lower level.

18 ~~————~~ **HABITABLE SPACE.** A space in a building for living, sleeping, eating or cooking.
19 Bathrooms, toilet rooms, closets, halls, storage or utility spaces and similar areas are not considered
20 habitable spaces.

21 ~~————~~ **HANDRAIL.** A horizontal or sloping rail intended for grasping by the hand for guidance
22 or support.

23 ~~————~~ **HANGERS.** See “Supports.”

24 ~~————~~ **HAZARDOUS LOCATION.** Any location considered to be a fire hazard for flammable
25 vapors, dust, combustible fibers or other highly combustible substances.

26 ~~————~~ **HEIGHT, BUILDING.** The vertical distance from grade plane to the average height of the
27 highest roof surface.

28 ~~————~~ **HEIGHT, STORY.** The vertical distance from top to top of two successive tiers of beams
29 or finished floor surfaces; and, for the topmost story, from the top of the floor finish to the top of the
30 ceiling joists or, where there is not a ceiling, to the top of the roof rafters.

31 ~~————~~ **HURRICANE-PRONE REGIONS.** Areas vulnerable to hurricanes, defined as the U.S.
32 Atlantic Ocean and Gulf of Mexico coasts where the basic wind speed is greater than 110 miles per
33 hour (177 km/h), and Hawaii, Puerto Rico, Guam, Virgin Islands, and America Samoa.

34 ~~————~~ **INSULATING CONCRETE FORM (ICF).** A concrete forming system using stay-in-place
35 forms of rigid foam plastic insulation, a hybrid of cement and foam insulation, a hybrid of cement
36 and wood chips, or other insulating material for constructing cast-in-place concrete walls.

37 ~~————~~ **INSULATING SHEATHING.** An insulating board having a minimum thermal resistance
38 of R-2 of the core material.

39 ~~————~~ **JURISDICTION.** The governmental unit that has adopted this code under due legislative
40 authority.

41 ~~————~~ **KITCHEN.** Kitchen shall mean an area used, or designated to be used, for the preparation
42 of food.

43 ~~————~~ **LIGHT-FRAMED CONSTRUCTION.** A type of construction whose vertical and
44 horizontal structural elements are primarily formed by a system of repetitive wood or light gage steel
45 framing membranes.

1 ~~————~~ **LIVE LOADS.** Those loads produced by the use and occupancy of the building or other
2 structure and do not include construction or environmental loads such as wind load, snow load, rain
3 load, earthquake load, flood load or dead load.

4 ~~————~~ **LIVING SPACE.** Space within a dwelling unit utilized for living, sleeping, eating, cooking,
5 bathing, washing and sanitation purposes.

6 ~~————~~ **LOT.** A portion or parcel of land considered as a unit.

7 ~~————~~ **LOT LINE.** A line dividing one lot from another, or from a street or any public place.

8 ~~————~~ **MAIN.** The principal pipe artery to which branches may be connected.

9 ~~————~~ **MANUFACTURED HOME.** Manufactured home means a structure, transportable in one
10 or more sections, which in the traveling mode is 8 body feet (2438 body mm) or more in width or
11 40 body feet (12 192 body mm) or more in length, or, when erected on site, is 320 square feet (30
12 m²) or more, and which is built on a permanent chassis and designed to be used as a dwelling with
13 or without a permanent foundation when connected to the required utilities, and includes the
14 plumbing, heating, air-conditioning and electrical systems contained therein; except that such term
15 shall include any structure that meets all the requirements of this paragraph except the size
16 requirements and with respect to which the manufacturer voluntarily files a certification required
17 by the secretary (HUD) and complies with the standards established under this title. For mobile
18 homes built prior to June 15, 1976, a label certifying compliance to the Standard for Mobile Homes,
19 NFPA-501, in effect at the time of manufacture is required. For the purpose of these provisions, a
20 mobile home shall be considered a manufactured home.

21 ~~————~~ **MASONRY CHIMNEY.** A field-constructed chimney composed of solid masonry units,
22 bricks, stones or concrete.

23 ~~————~~ **MASONRY, SOLID.** Masonry consisting of solid masonry units laid contiguously with the
24 joints between the units filled with mortar.

25 ~~————~~ **MASONRY UNIT.** Brick, tile, stone, glass block or concrete block conforming to the
26 requirements specified in Section 2103 of the International Building Code.

27 ~~————~~ **Clay.** A building unit larger in size than a brick, composed of burned clay, shale, fire clay
28 or mixtures thereof.

29 ~~————~~ **Concrete.** A building unit or block larger in size than 12 inches by 4 inches by 4 inches (305
30 mm by 102 mm by 102 mm) made of cement and suitable aggregates.

31 ~~————~~ **Glass.** No-load-bearing masonry composed of glass units bonded by mortar.

32 ~~————~~ **Hollow.** A masonry unit whose net cross-sectional area in any plane parallel to the load-
33 bearing surface is less than 75 percent of its gross cross-sectional area measured in the same
34 plane.

35 ~~————~~ **Solid.** A masonry unit whose net cross-sectional area in every plane parallel to the load-
36 bearing surface is 75 percent or more of its cross-sectional area measured in the same plane.

37 ~~————~~ **MASS WALL.** Masonry or concrete walls having a mass greater than or equal to 30 pounds
38 per square foot (146 kg/m²), solid wood walls having a mass greater than or equal to 20 pounds per
39 square foot (98 kg/m²), and any other walls having a heat capacity greater than or equal to 6
40 Btu/ft²·F [266 J/(m²·k)].

41 ~~————~~ **MEAN ROOF HEIGHT.** The average of the roof eave height and the height to the highest
42 point on the roof surface, except that eave height shall be used for roof angle of less than or equal
43 to 10 degrees (0.18 rad).

44 ~~————~~ **METAL ROOF PANEL.** An interlocking metal sheet having a minimum installed weather
45 exposure of at least 3 square feet (0.28 m²) per sheet.

1 ~~————~~ **METAL ROOF SHINGLE.** An interlocking metal sheet having an installed weather
2 exposure less than 3 square feet (0.28 m²) per sheet.

3 ~~————~~ **MEZZANINE, LOFT.** An intermediate level or levels between the floor and ceiling of any
4 story with an aggregate floor area of not more than one-third of the area of the room or space in
5 which the level or levels are located.

6 ~~————~~ **MODIFIED BITUMEN ROOF COVERING.** One or more layers of polymer modified
7 asphalt sheets. The sheet materials shall be fully adhered or mechanically attached to the substrate
8 or held in place with an approved ballast layer.

9 ~~————~~ **MULTIPLE STATION SMOKE ALARM.** Two or more single station alarm devices that
10 are capable of interconnection such that actuation of one causes all integral or separate audible
11 alarms to operate.

12 ~~————~~ **NONCOMBUSTIBLE MATERIAL.** Materials that pass the test procedure for defining
13 noncombustibility of elementary materials set forth in ASTM E 136.

14 ~~————~~ **NONCONDITIONED SPACE.** A space that is not a conditioned space by insulated walls,
15 floors or ceilings.

16 ~~————~~ **OCCUPIED SPACE.** The total area of all buildings or structures on any lot or parcel of
17 ground projected on a horizontal plane, excluding permitted projections as allowed by this code.

18 ~~————~~ **OWNER.** Any person, agent, firm or corporation having a legal or equitable interest in the
19 property.

20 ~~————~~ **PERMIT.** An official document or certificate issued by the authority having jurisdiction that
21 authorizes performance of a specified activity.

22 ~~————~~ **PERSON.** An individual, heirs, executors, administrators or assigns, and also includes a
23 firm, partnership or corporation, its or their successors or assigns, or the agent of any of the
24 aforesaid.

25 ~~————~~ **PITCH.** See "Slope."

26 ~~————~~ **PLATFORM CONSTRUCTION.** A method of construction by which floor framing bears
27 on load bearing walls that are not continuous through the story levels or floor framing.

28 ~~————~~ **POSITIVE ROOF DRAINAGE.** The drainage condition in which consideration has been
29 made for all loading deflections of the roof deck, and additional slope has been provided to ensure
30 drainage of the roof within 48 hours of precipitation.

31 ~~————~~ **PUBLIC SEWER.** A common sewer directly controlled by public authority.

32 ~~————~~ **PUBLIC WATER MAIN.** A water-supply pipe for public use controlled by public
33 authority.

34 ~~————~~ **PUBLIC WAY.** Any street, alley or other parcel of land open to the outside air leading to
35 a public street, which has been deeded, dedicated or otherwise permanently appropriated to the
36 public for public use and that has a clear width and height of not less than 10 feet (3048 mm).

37 ~~————~~ **R-VALUE, THERMAL RESISTANCE.** The inverse of the time rate of heat flow through
38 a building thermal envelope element from one of its bounding surfaces to the other for a unit
39 temperature difference between the two surfaces, under steady state conditions, per unit area (h-
40 ft²F/Btu).

41 ~~————~~ **RAMP.** A walking surface that has a running slope steeper than 1 unit vertical in 20 units
42 horizontal (5-percent slope).

43 ~~————~~ **REGISTERED DESIGN PROFESSIONAL.** An individual who is registered or licensed
44 to practice their respective design profession as defined by the statutory requirements of the
45 professional registration laws of the state or jurisdiction in which the project is to be constructed.

1 ~~REPAIR.~~ The reconstruction or renewal of any part of an existing building for the purpose
2 of its maintenance.

3 ~~REROOFING.~~ The process of recovering or replacing an existing roof covering. See “Roof
4 recover.”

5 ~~RESIDENTIAL BUILDING TYPE.~~ The type of residential building for determining
6 building thermal envelope criteria. Detached one- and two-family dwellings are Type A-1.
7 Townhouses are Type A-2.

8 ~~ROOF ASSEMBLY.~~ A system designed to provide weather protection and resistance to
9 design loads. The system consists of a roof covering and roof deck or a single component serving
10 as both the roof covering and the roof deck. A roof assembly includes the roof deck, vapor retarder,
11 substrate or thermal barrier, insulation, vapor retarder, and roof covering.

12 ~~ROOF COVERING.~~ The covering applied to the roof deck for weather resistance, fire
13 classification or appearance.

14 ~~ROOF COVERING SYSTEM.~~ See “Roof assembly.”

15 ~~ROOF DECK.~~ The flat or sloped surface not including its supporting members or vertical
16 supports.

17 ~~ROOF RECOVER.~~ The process of installing an additional roof covering over a prepared
18 existing roof covering without removing the existing roof covering.

19 ~~ROOF REPAIR.~~ Reconstruction or renewal of any part of an existing roof for the purposes
20 of its maintenance.

21 ~~ROOFTOP STRUCTURE.~~ An enclosed structure on or above the roof of any part of a
22 building.

23 ~~RUNNING BOND.~~ The placement of masonry units such that head joints in successive
24 courses are horizontally offset at least one-quarter the unit length.

25 ~~SCUPPER.~~ An opening in a wall or parapet that allows water to drain from a roof.

26 ~~SEISMIC DESIGN CATEGORY.~~ A classification assigned to a structure based on its
27 Seismic Group and the severity of the design earthquake ground motion at the site.

28 ~~SHALL.~~ The term, when used in the code, is construed as mandatory.

29 ~~SHEARWALL.~~ A general term for walls that are designed and constructed to resist racking
30 from seismic and wind by use of masonry, concrete, cold-formed steel or wood framing in
31 accordance with Chapter 6 of this code and the associated limitations in Section R301.2 of this code.

32 ~~SINGLE PLY MEMBRANE.~~ A roofing membrane that is field applied using one layer of
33 membrane material (either homogeneous or composite) rather than multiple layers.

34 ~~SINGLE STATION SMOKE ALARM.~~ An assembly incorporating the detector, control
35 equipment and alarm sounding device in one unit that is operated from a power supply either in the
36 unit or obtained at the point of installation.

37 ~~SKYLIGHT AND SLOPED GLAZING.~~ See Section R308.6.1.

38 ~~SLIP JOINT.~~ A mechanical-type joint used primarily on fixture traps. The joint tightness
39 is obtained by compressing a friction-type washer such as rubber, nylon, neoprene, lead or special
40 packing material against the pipe by the tightening of a (slip) nut.

41 ~~SMOKE-DEVELOPED RATING.~~ A numerical index indicating the relative density of
42 smoke produced by burning assigned to a material tested in accordance with ASTM E 84.

43 ~~SOLAR HEAT GAIN COEFFICIENT (SHGC).~~ The solar heat gain through a fenestration
44 or glazing assembly relative to the incident solar radiation (Btu/h-ft²-F).

1 ~~————~~ **SOLID MASONRY.** Load-bearing or nonload-bearing construction using masonry units
2 where the net cross-sectional area of each unit in any plane parallel to the bearing surface is
3 not less than 75 percent of its gross cross-sectional area. Solid masonry units shall conform to
4 ASTM C 55, C 62, C 73, C 145 or C 216.

5 ~~————~~ **STACK BOND.** The placement of masonry units in a bond pattern is such that head joints
6 in successive courses are vertically aligned. For the purpose of this code, requirements for stack
7 bond shall apply to all masonry laid in other than running bond.

8 ~~————~~ **STANDARD TRUSS.** Any construction that does not permit the roof/ceiling insulation to
9 achieve the required R-value over the exterior walls.

10 ~~————~~ **STORY.** That portion of a building included between the upper surface of a floor and the
11 upper surface of the floor or roof next above.

12 ~~————~~ **STORY ABOVE GRADE.** Any story having its finished floor surface entirely above grade,
13 except that a basement shall be considered as a story above grade where the finished surface of the
14 floor above the basement is:

15 ~~————~~ 1. More than 6 feet (1829 mm) above grade plane.

16 ~~————~~ 2. More than 6 feet (1829 mm) above the finished ground level for more than 50 percent of
17 the total building perimeter.

18 ~~————~~ 3. More than 12 feet (3658 mm) above the finished ground level at any point.

19 ~~————~~ **STRUCTURAL INSULATED PANELS (SIPS).** Factory fabricated panels of solid core
20 insulation with structural skins of oriented strand board (OSB) or plywood.

21 ~~————~~ **THERMAL RESISTANCE, R-VALUE.** The inverse of the time rate of heat flow through
22 a body from one of its bounding surfaces to the other for a unit temperature difference between the
23 two surfaces, under steady state conditions, per unit area ($\text{h} \cdot \text{ft}^2 \cdot ^\circ\text{F}/\text{Btu}$).

24 ~~————~~ **THERMAL TRANSMITTANCE, U-FACTOR.** The coefficient of heat transmission (air
25 to air) through a building envelope component or assembly, equal to the time rate of heat flow per
26 unit area and unit temperature difference between the warm side and cold side air films ($\text{Btu}/\text{h} \cdot \text{ft}^2$
27 $^\circ\text{F}$).

28 ~~————~~ **TOWNHOUSE.** A single-family dwelling unit constructed in a group of two or more
29 attached units, each of which is constructed on an individually platted lot, in which each unit extends
30 from foundation to roof and with open space on at least two sides.

31 ~~————~~ **TRIM.** Picture molds, chair rails, baseboards, handrails, door and window frames, and
32 similar decorative or protective materials used in fixed applications.

33 ~~————~~ **TRUSS DESIGN DRAWING.** The graphic depiction of an individual truss, which
34 describes the design and physical characteristics of the truss.

35 ~~————~~ **U-FACTOR, THERMAL TRANSMITTANCE.** The coefficient of heat transmission (air
36 to air) through a building envelope component or assembly, equal to the time rate of heat flow per
37 unit area and unit temperature difference between the warm side and cold side air films ($\text{Btu}/\text{h} \cdot \text{ft}^2$
38 $^\circ\text{F}$).

39 ~~————~~ **UNDERLAYMENT.** One or more layers of felt, sheathing paper, nonbituminous saturated
40 felt, or other approved material over which a roof covering, with a slope of 2 to 12 (17-percent
41 slope) or greater, is applied.

42 ~~————~~ **UNUSUALLY TIGHT CONSTRUCTION.** Construction in which:

43 ~~————~~ 1. Walls and ceilings comprising the building thermal envelope have a continuous water
44 vapor retarder with a rating of 1 perm [$57.4 \text{ ng}/(\text{s} \cdot \text{m}^2 \cdot \text{Pa})$] or less with openings therein gasketed
45 or sealed.

1 ~~2. Storm windows or weatherstripping is applied around the threshold and jambs of opaque~~
2 ~~doors and openable windows.~~

3 ~~3. Caulking or sealants are applied to areas such as joints around window and door frames~~
4 ~~between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for~~
5 ~~plumbing, electrical and gas lines, and at other openings.~~

6 ~~**VAPOR RETARDER.** A material having a permeance rating of 1.0 or less when tested in~~
7 ~~accordance with ASTM E 96.~~

8 ~~**VENTILATION.** The natural or mechanical process of supplying conditioned or~~
9 ~~unconditioned air to, or removing such air from, any space.~~

10 ~~**WALLS.** Walls shall be defined as follows:~~

11 ~~**Load-bearing wall** is a wall supporting any vertical load in addition to its own weight.~~

12 ~~**Nonbearing wall** is a wall which does not support vertical loads other than its own weight.~~

13 ~~**WIND BORNE DEBRIS REGION.** Areas within hurricane-prone regions within one mile~~
14 ~~of the coastal mean high water line where the basic wind speed is 110 miles per hour (177 km/h) or~~
15 ~~greater; or where the basic wind speed is equal to or greater than 120 miles per hour (193 km/h); or~~
16 ~~Hawaii.~~

17 ~~**WOOD STRUCTURAL PANEL.** A panel manufactured from veneers; or wood strands~~
18 ~~or wafers; bonded together with waterproof synthetic resins or other suitable bonding systems.~~
19 ~~Examples of wood structural panels are plywood, OSB or composite panels.~~

20 ~~**YARD.** An open space, other than a court, unobstructed from the ground to the sky, except~~
21 ~~where specifically provided by this code, on the lot on which a building is situated.~~

22 Section 15. That Section 20.10.200 of the Lincoln Municipal Code be amended to
23 read as follows:

24 **20.10.200 Table No. R301.2(1) Amended; Climatic and Geographic Design Criteria.**

25 Table No. R301.2(1) of the International Residential Code is amended to read as follows:

26 **TABLE R301.2(1)**
27 **CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

GROUND SNOW LOAD	WIND	SEISMIC DESIGN CATEGORY ^{a,c,g}	SUBJECT TO DAMAGE FROM				FLOOD HAZARDS ^h
	Speed ^e (mph)		Weathering ^a	Frost line depth ^b	Termite ^e	Decay ^d	
30 psf	80- 90 mph	B	Severe	36" ^b	Moderate to Heavy	Slight to Moderate	See LMC Ch. 27.55

32 All footnotes to Table No. R301.2(1) of this code shall apply.

GROUND SNOW LOAD	WIND SPEED ^d (mph)	SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g
			Weathering ^a	Frost Line depth ^b	Termite ^c			
30 psf	90 mph	B	Severe	36"	moderate to heavy	70° F	No	See LMC 27.52 & 27.53

For SI- 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as determined from the Weathering Probability Map [Figure R301.2(3)] The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.
- b. The frost line depth may require deeper footings than indicated in Figure R403.1(1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite dam-
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(4)]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
- e. The outdoor design dry-bulb temperature shall be selected from the columns of 97 1/2 percent values for winter from Appendix D of the International Plumbing Code. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official.
- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
- g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the currently effective FIRM and FBFM, or other flood hazard map adopted by the community, as may be amended.
- h. In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES". Otherwise, the jurisdiction shall fill in this part of the table with NO.

Section 16. That Section 20.10.210 of the Lincoln Municipal Code be amended to read as follows:

20.10.210 Table R301.45 Amended; Minimum Uniformly Distributed Live Loads.

Table R301.45 of the International Residential Code is amended to read as follows:

TABLE R301.45
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS
(in pounds per square foot)

<u>USE</u>	<u>LIVE LOAD</u>
Exterior balconies	60
Decks ^f	40
Fire escapes	40
Passenger vehicle garages ^a	50 ^a
Attics without storage ^{b,e}	10
Attics with storage ^{b,e}	20
Rooms other than sleeping rooms	40
Sleeping rooms	40
Stairs	40 ^c
Guardrails and handrails ^d	200

<u>USE</u>	<u>LIVE LOAD</u>
Attics with limited storage ^{b,g,h}	20
Attics without storage ^b	10
Decks ^e	40
Exterior balconies	60
Fire escapes	40
Guardrails and handrails ^d	200 ⁱ
Guardrails in-fill components ^f	50 ⁱ
Passenger vehicle garages ^a	50 ^a
Rooms other than sleeping rooms	40
Sleeping rooms	40
Stairs	40 ^c

For SI: 1 pound per square foot = 0.0479 kN/m² kPa, 1 square inch = 645 mm²,
1 pound = 4.45 N.

All footnotes to Table No. R301.45 of this code shall apply.

Section 17. That Section 20.10.220 of the Lincoln Municipal Code be amended to read as follows:

1 **20.10.220 Table R301.67 Amended; Allowable Deflection of Structural Members.**

2 Table R301.67 of the International Residential Code is amended to read as follows:

3 **TABLE R301.67**
4 **ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS**

5 STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
6 Rafters having slopes greater than 3/12 7 with no finished ceiling attached to rafters	L/180
8 Interior walls and partitions	H/180 <u>240</u>
9 All other structural members L/240	L/240
10 Exterior walls with plaster or stucco 11 finish	H/360
12 Exterior walls —wind loads ^a with 13 brittle finishes	E <u>H/240</u>
14 Exterior walls—wind loads ^a with 15 flexible finishes	E <u>H/120</u>
16 Floors – 16'6” or less	L/360
17 Floors over 16'6” span	L/480

18 Note: L = span length, H = span height.

19 a. The wind load shall be permitted to be taken as 0.7 times the Component and
20 Cladding loads for the purpose of the determining deflection limits herein.

21 Section 18. That Section 20.10.230 of the Lincoln Municipal Code be amended to
22 read as follows:

23 **20.10.230 Section R302.1 ~~Exception~~ Amended; Exterior Walls.**

24 ~~The Exception~~ of Section R302.1 of the International Residential Code is amended to read
25 as follows:

26 **R302.1 Exterior walls.** Construction, projections, openings and penetrations of exterior
27 walls of dwellings and accessory buildings shall comply with Table R302.1. These provisions shall
28 not apply to walls, projections, openings or penetrations in walls that are perpendicular to the line
29 used to determine the fire separation distance. Projections beyond the exterior wall shall not extend

1 more than 12 inches (305 mm) into the areas where openings are prohibited. No part of a detached
2 structure shall be closer than 2 feet from a lot line.

3 **Exception 1:** Fire resistance and opening protection may be omitted for exterior walls of
4 one story detached accessory buildings used as tool sheds, storage sheds, play houses, and similar
5 uses; provided, the floor area of such buildings does not exceed 120 square feet. Detached tool
6 sheds and storage sheds, playhouses and similar structures with a floor area of equal to or less than
7 120 square feet are not required to provide wall protection.

8 **Exception 2:** Detached accessory buildings greater than 120 square feet with walls located
9 less than 3 feet from a lot line shall be 1 hour protected with exposure from the inside with no
10 openings.

11 **Exception 3:** An accessory building located less than 6 feet from a dwelling unit including
12 decks greater than 30 inches above grade, shall be protected with no less than 5/8" type X gypsum
13 board applied to the interior side of the walls and the ceiling. The door shall be no less than a solid
14 core or steel door no less than 1 3/8" thickness. No other openings shall be permitted.

15 Section 19. That Chapter 20.10 of the Lincoln Municipal Code be amended by adding
16 a new section numbered 20.10.235 to read as follows:

17 **20.10.235 Table R302.1 Amended; Exterior Walls.**

18 Table R302.1 of the International Building Code is amended to read as follows:

19 **TABLE R302.1**
20 **EXTERIOR WALLS**

<u>EXTERIOR WALL ELEMENT</u>		<u>MINIMUM FIRE-RESISTANCE RATING</u>	<u>MINIMUM FIRE SEPARATION DISTANCE</u>
<u>Walls</u>	<u>(Fire-resistance rated)</u>	<u>1 hour with exposure from both sides*</u>	<u>0 feet</u>
	<u>(Not fire-resistance rated)</u>	<u>0 hours</u>	<u>5 feet</u>
<u>Projections</u>	<u>(Fire-resistance rated)</u>	<u>1 hour on the underside</u>	<u><3 feet</u>
	<u>(Not fire-resistance rated)</u>	<u>0 hours</u>	<u>≥ or = 3 feet</u>

1	<u>Openings</u>	<u>Not allowed</u>	<u>N/A</u>	<u><3 feet</u>
		<u>25% Maximum of Wall Area</u>	<u>0 hours</u>	<u>3 feet</u>
		<u>Unlimited</u>	<u>0 hours</u>	<u>5 feet</u>
2	<u>Penetrations</u>	<u>All</u>	<u>Comply with Section R317.3</u>	<u><5 feet</u>
			<u>Non required</u>	<u>5 feet</u>

3 *Detached Garages- 1 hour protection from the inside only.

4
5 Section 20. That Section 20.10.250 of the Lincoln Municipal Code be amended to
6 read as follows:

7 **20.10.250 Section R303.3 Amended; Bathrooms.**

8 Section R303.3 of the International Residential Code is amended to read as follows:

9 **R303.3 Bathrooms.** Bathrooms, water closet compartments, laundry rooms, and other
10 similar rooms shall be provided with a mechanical ventilation system. The minimum ventilation
11 rates shall be 50 cfm (23.6 L/s) for intermittent ventilation or 20 cfm (9.4 L/s) for continuous
12 ventilation. Ventilation air from the space shall be exhausted directly to the outside.

13 ~~**Exception:** Bathrooms which contain only a water closet or lavatory or combination thereof,~~
14 ~~and similar rooms may be ventilated with an approved mechanical recirculating fan or similar device~~
15 ~~designed to remove odors from the air. In laundry rooms, dryers vented directly to the outside are~~
16 ~~deemed to meet the requirements of this section.~~

17 Section 21. That Chapter 20.10 of the Lincoln Municipal Code be amended by
18 adding a new section numbered 20.10.253 to read as follows:

19 **20.10.253 Sections R303.4, R303.4.1 and R303.4.2 Deleted; Opening Location.**

20 Sections R303.4, R303.4.1 and R303.4.2 of the International Residential Code are hereby
21 deleted.

22 Section 22. That Chapter 20.10 of the Lincoln Municipal Code be amended by
23 adding a new section numbered 20.10.255 to read as follows:

24 **20.10.255 Section R303.5 Deleted; Outside Opening Protection.**

25 Section R303.5 of the International Residential Code is hereby deleted.

1 Section 23. That Section 20.10.260 of the Lincoln Municipal Code be amended to
2 read as follows:

3 **20.10.260 Section R305 Amended; Ceiling Heights.**

4 Section R305 of the International Residential Code is amended to read as follows:

5 **SECTION R305 – CEILING HEIGHT**

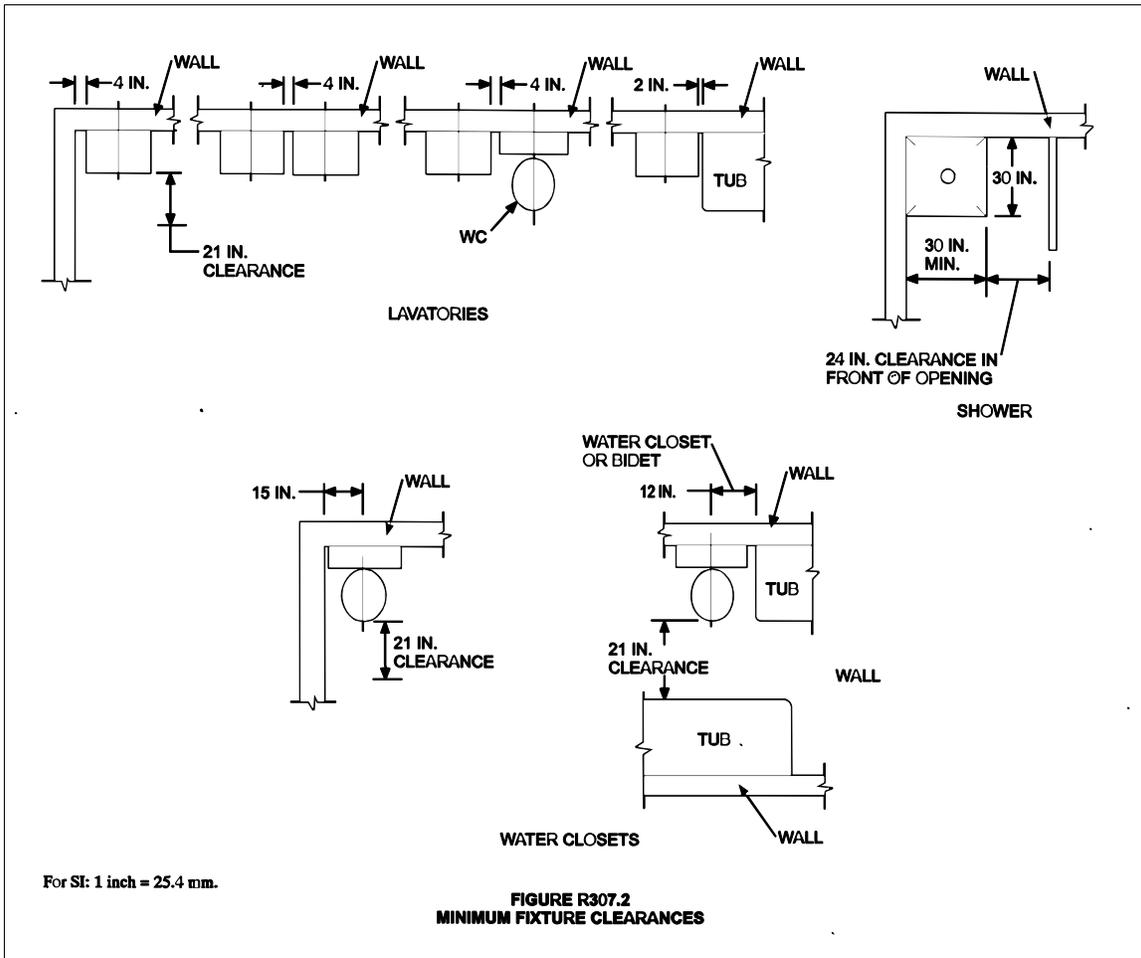
6 **R305.1 Ceiling Heights.** Habitable space shall have a ceiling height of not less than 7 feet
7 6 inches (2286 mm) except as otherwise permitted in this section. Kitchens, halls, bathrooms, and
8 toilet compartments may have a ceiling height of not less than 7 feet (2134 mm) measured to the
9 lowest projection from the ceiling. Where exposed beam ceiling members are spaced at less than
10 48 inches (1219 mm) on center, ceiling height shall be measured to the bottom of the deck supported
11 by these members. Where exposed beam ceiling members are spaced at 48 inches (1219 mm) or
12 more on center, ceiling height shall be measured to the bottom of the deck supported by these
13 members, provided that the bottom of the members is not less than 7 feet (2134 mm) above the floor.

14 If any room in a building has a sloping ceiling, the prescribed ceiling height for the room is
15 required in only one-half the area thereof. No portion of the room measuring less than 5 feet (1524
16 mm) from the finished floor to the finished ceiling shall be included in any computation of the
17 minimum area thereof.

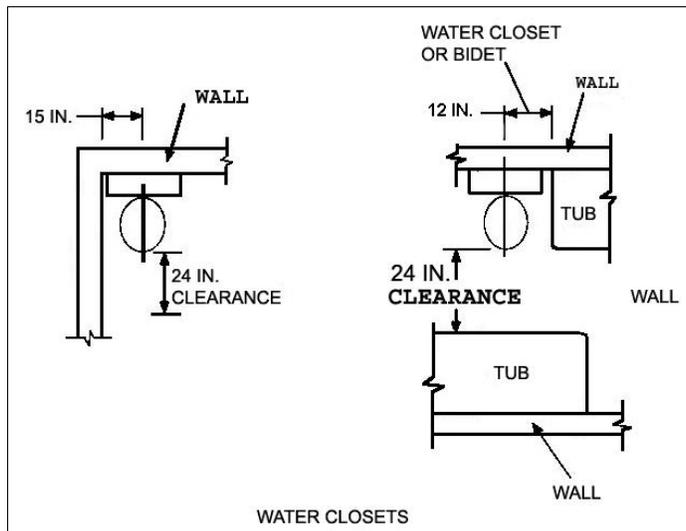
18 If any room has a furred ceiling, the prescribed ceiling height is required in two-thirds the
19 area thereof, but in no case shall the height of the furred ceiling be less than 7 feet (2134 mm).

20 **Exception:** The ceiling height of a habitable room in basements within a single family
21 dwelling may be reduced to accommodate existing floor joists, but in no case shall the finished
22 ceiling height be less than 7 feet (2134 mm). Beamed and furred ceilings under ducts or piping shall
23 have a ceiling height of not less than 6 feet 6 inches (1981 mm) and shall not exceed 1/3 of the total
24 ceiling area of the room. When ceilings are constructed to such minimum heights as herein
25 described, no fixtures or other appurtenances shall project below such ceiling heights. Connecting
26 hallways in such basements shall have a ceiling height of not less than 6 feet 10 inches (2083 mm).
27 Bathrooms shall have a minimum ceiling height of 6 feet 8 inches (2036 mm) over the fixture and
28 at the front clearance area for fixtures as shown in Figure R307.1. A shower or tub equipped with
29 a showerhead shall have a minimum ceiling height of 6 feet 8 inches (2036 mm) above a minimum
30 area 30 inches (762 mm) by 30 inches (762 mm) at the showerhead.

Delete current Figure 307.2 shown below:



Replace with Figure 307.1 shown below:



1 Section 26. That Chapter 20.10 of the Lincoln Municipal Code be amended by
2 adding a new section numbered 20.10.273 to read as follows:

3 **20.10.273 Section R307.3 Added; Access to Whirlpool Pump.**

4 Section R307.3 is added to the International Residential Code to read as follows:

5 **R307.3 Access to whirlpool pump.** Access shall be provided to circulation pumps in
6 accordance with the fixture manufacturer's installation instructions. Where the manufacturer's
7 instructions do not specify the location and minimum size of field fabricated access openings, a
8 12-inch by 12-inch (304 mm by 304 mm) minimum size opening shall be installed to provide access
9 to the circulation pump. Where pumps are located more than 2 feet (609 mm) from the access
10 opening, an 18-inch by 18-inch (457 mm by 457 mm) minimum size opening shall be installed. A
11 door or panel shall be permitted to close the opening. In all cases, the access opening shall be
12 unobstructed and be of the size necessary to permit the removal and replacement of the circulation
13 pump.

14 Section 27. That Chapter 20.10 of the Lincoln Municipal Code be amended by
15 adding a new section numbered 20.10.275 to read as follows:

16 **20.10.275 Sections R309.1.1 and R309.1.2 Deleted; Duct Penetration of Garages.**

17 Sections R309.1.1 and R309.1.2 of the International Residential Code are hereby deleted.

18 Section 28. That Section 20.10.280 of the Lincoln Municipal Code be amended to
19 read as follows:

20 **20.10.280 Section R309.2 Amended; Separation Required.**

21 Section 309.2 of the International Residential Code is amended to read as follows:

22 **R309.2 Separation required.** The garage shall be separated from the residence and its attic
23 area by not less than 5/8-inch (15.9 mm) type X gypsum board applied to the garage wall side only.
24 Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than
25 5/8-inch (15.9 mm) type X gypsum board or equivalent. Where the separation is a floor-ceiling
26 assembly, the structure supporting the separation shall also be protected by not less than 5/8-inch
27 (15.9 mm) type X gypsum board or equivalent. ~~applied to the garage side only.~~ A cantilever
28 projecting over a garage door shall be protected on the underside by not less than 5/8" Type X
29 gypsum board.

30 Garages located less than 6 feet (914 mm) from a dwelling unit on the same lot shall be
31 protected with not less than 5/8-inch type X gypsum board applied to the interior side of exterior

1 walls that are within this area. Openings in these walls shall be regulated by Section R309.1. This
2 provision does not apply to garage walls that are perpendicular to the adjacent dwelling unit wall.
3 Accessory buildings 120 square feet or greater, located less than 6 feet from the residence shall be
4 protected by not less than 5/8 inch type X gypsum board applied to the interior side, with no
5 openings permitted.

6 Section 29. That Section 20.10.290 of the Lincoln Municipal Code be amended to
7 read as follows:

8 **20.10.290 Section R309.67 Added; Headroom Clearance.**

9 Section R309.67 is added to the International Residential Code to read as follows:

10 **R309.67 Headroom clearance.** Any portion of a garage shall have an unobstructed
11 headroom clearance of not less than 6 feet 6 8 inches (1981 mm) above the finished floor to any
12 ceiling, beam, pipe, or similar construction except for wall-mounted shelves, storage surfaces, racks,
13 or cabinets.

14 Section 30. That Section 20.10.300 of the Lincoln Municipal Code be amended to
15 read as follows:

16 **20.10.300 Section R310.1 Amended; Emergency Escape and Rescue Required.**

17 Section R310.1 of the International Residential Code is amended to read as follows:

18 **R310.1 Emergency escape and rescue required.** Every sleeping room shall have at least
19 one operable emergency escape and rescue window or exterior door opening for emergency escape
20 and rescue. ~~Basement r~~Rooms with a storage closet greater than 18 inches in depth or direct access
21 to a bathroom shall also comply with this requirement. Where openings are provided as a means
22 of escape and rescue, they shall have a sill clear opening height not more than 44 inches (1118 mm)
23 above the floor. ~~Where a door opening having a threshold below the adjacent ground elevation~~
24 ~~serves as an emergency escape and rescue opening and is provided with a bulkhead enclosure, the~~
25 ~~bulkhead enclosure shall comply with Section R310.3.~~ The net clear opening dimensions required
26 by this section shall be obtained by the normal operation of the window or door opening from the
27 inside. Escape and rescue window openings with a finished sill height below the adjacent ground
28 elevation shall be provided with a window well in accordance with Section R310.2.

29 Section 31. That Chapter 20.10 of the Lincoln Municipal Code be amended by
30 adding a new section numbered 20.10.315 to read as follows:

1 **20.10.315 Section R310.1.5 Added; Double Hung Egress Window.**

2 Section R310.1.5 is added to the International Residential Code to read as follows:

3 **R310.1.5 Double hung egress window.** Double hung windows must meet the requirements
4 for an egress window without removing the upper sash.

5 Section 32. That Section 20.10.330 of the Lincoln Municipal Code be amended to
6 read as follows:

7 **20.10.330 Section ~~R312.1.2~~ 311.4.3 Amended; Landings at Doors.**

8 Section ~~R312.1.2~~ 311.4.3 of the International Residential Code is amended to read as
9 follows:

10 **R~~312.1.2~~ 311.4.3 Landings at doors.** There shall be a floor or landing on each side of each
11 exterior door. The exterior landing at an exterior doorway shall not be more than 7 3/4 inches (196
12 mm) below the top of the threshold, provided the door, other than an exterior storm or screen door
13 does not swing over the landing. The landing shall be permitted to have a slope not to exceed 0.25
14 unit vertical in 12 units horizontal (2-percent).

15 **Exceptions:**

16 1. ~~A door may open at a landing that is not more than 8 inches (203 mm) lower~~
17 ~~than the floor level, provided the door does not swing over the landing.~~

18 ~~2. Screen doors and storm doors may swing over stairs, steps, or landings.~~

19 ~~3. A utility door in a garage that is not used as an entry door to the home but a~~
20 ~~door to the patio or rear yard may swing over an 8-inch (203 mm) step provided the grade or patio~~
21 ~~on the outside provides a landing on that side of the door.~~

22 ~~4. A landing is not required for stairs of less than four risers.~~

23 1. Where a stairway of 4 or more risers is located on the exterior side of a door,
24 other than the required exit door, a landing is required.

25 2. The height of floors at a garage utility door shall not be more than 7 3/4
26 inches (186 mm) lower than the top of the threshold. The width of each landing shall not be less than
27 the door served. Every landing shall have a minimum dimension of 36 inches (914 mm) measured
28 in the direction of travel.

29 Section 33. That Section 20.10.340 of the Lincoln Municipal Code be amended to
30 read as follows:

1 **20.10.340 Section R314 311.5 Amended; Stairways.**

2 Section R314 311.5 of the International Residential Code is amended to read as follows:

3 **Section R314 311.5 - Stairways.**

4 **R314 311.5.1 Width.** Stairways shall not be less than 36 inches (914 mm) in clear width at
5 all points above the permitted handrail height and below the required headroom height. Handrails
6 shall not project more than 4.5 inches (114 mm) on either side of the stairway and the minimum
7 clear width of the stairway at and below the handrail height, including treads and landings, shall not
8 be less than 31.5 inches (787 mm) where a handrail is installed on one side and 27 inches (698 mm)
9 where handrails are provided on both sides. Stairways serving a loft of less than 300 square feet in
10 a room within a individual dwelling unit, may not be less than 24 inches (610 mm) in width.

11 **Exceptions:**

- 12 1. The width of spiral stairways shall be in accordance with Section R314.5311.5.8.1.
13 2. Private stairways for ~~exterior decks~~, basements, lofts, or attics may be 30 inches (762
14 mm) in width provided the minimum clear width at and below the railing shall not be less than 26
15 25 1/2 inches (660 mm).
16 3. Stringers and other projections such as trim and similar decorative features may
17 project into the required width 1 1/2 inches (38 mm) on each side.

18 **R311.5.2 Headroom.** The minimum headroom in all parts of the stairway shall not be less
19 than 6 feet 8 inches (2032 mm) measured vertically from the sloped plane adjoining the tread nosing
20 or from the floor surface of the landing or platform.

21 **Exception:** When demonstrated to the building official there are practical difficulties in
22 achieving 6 feet 8 inches (2032 mm) headroom in existing construction, a minimum of 6 feet 6
23 inches (1981 mm) headroom may be allowed.

24 **R311.5.3 Stair treads and risers.**

25 **R311.5.3.1 Riser height.** The maximum riser height shall be 7¾ inches (196 mm)
26 unless at the discretion of the Building Official, it may be adjusted to accommodate existing
27 conditions. The riser shall be measured vertically between leading edges of the adjacent treads. The
28 greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch
29 (9.5 mm).The minimum riser height shall be no less than 4 inches. Open risers are permitted.

30 **R311.5.3.2 Tread depth.** The minimum tread depth shall be 10 inches (254 mm)
31 unless at the discretion of the Building Official, it may be adjusted to accommodate existing

1 conditions. The greatest tread depth within any flight of stairs shall not exceed the smallest by more
2 than 3/8 inch (9.5 mm). Winder treads shall have a minimum tread depth of 10 inches (254 mm)
3 measured at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads
4 shall have a minimum tread depth of 7 inches (152 mm) at any point. A nosing shall not exceed 1"
5 (27.4mm).

6 **R311.5.4 Landings for stairways.** There shall be a floor or landing at the top and bottom
7 of each stairway.

8 **Exception 1:** A floor or landing is not required at the top of an interior flight of stairs,
9 including stairs in an enclosed garage, provided a door does not swing over the stairs.

10 **Exception 2:** The bottom of an exterior stair shall be supported by a concrete or stone pad
11 that provides a minimum landing of 12 inches, the top of which is at grade level, and shall be the
12 width of the stairs.

13 A flight of stairs shall not have a vertical rise larger than 12 feet (3658 mm) between floor
14 levels or landings. The width of each landing shall not be less than the width of the stairway served.
15 Every landing shall have a minimum dimension of 36 inches (914 mm) measured in the direction
16 of travel.

17 **R311.5.5 Stairway walking surface.** The walking surface of treads and landings of
18 stairways shall be sloped no steeper than one unit vertical in 48 inches horizontal (2-percent slope).

19 **R311.5.6 Handrails.** Handrails shall be provided on at least one side of each continuous
20 run of treads or flight with four or more risers. The handrail for circular, and winding stairs shall be
21 located on the side where the tread is narrower.

22 **R311.5.6.1 Height.** Handrail height, measured vertically from the sloped plane
23 adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)
24 and not more than 38 inches (965 mm).

25 **R311.5.6.2 Continuity.** Handrails for stairways shall be continuous for the full
26 length of the flight, from a point directly above the top riser of the flight to a point directly above
27 the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or
28 safety terminals. Handrails adjacent to a wall shall have a space of not less than 1½ inch (38 mm)
29 between the wall and the handrails.

30 **Exceptions:**

- 31 1. Handrails shall be permitted to be interrupted by a newel post at the turn.

2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.
3. Handrails shall be permitted to be interrupted at the point where a stairway wall changes to an open guard.

R311.5.6.3 Handrail grip size. The handgrip portion of handrails shall have a circular cross section of 1 1/4 inches (32 mm) minimum to 2 5/8 inches (67 mm) maximum. Other handrail shapes that provide an equivalent grasping surface are permissible. Edges shall have a minimum radius of 1/8 inch (3.2 mm). On exterior stairs of individual dwelling units, the handrail may consist of a 1 1/2 inch (38 mm) thick by a 3 1/2 inch (89 mm) wide piece mounted in the horizontal or vertical dimension. (Ord. 17996 §35; May 13, 2002).

R311.5.8 Special stairways. Spiral stairways, winder stairways, circular stairways, and bulkhead enclosure stairways shall comply with all requirements of Section R311.5 except as specified below:

R311.5.8.1 Spiral stairways. Spiral stairways are permitted, provided the minimum width shall be 26 inches (660 mm) with each tread having a 7½-inches (190 mm) minimum tread depth at 12 inches from the narrower edge. All treads shall be identical, and the rise shall be no more than 9½ inches (241 mm). A minimum headroom of 6 feet 6 inches (1982 mm) shall be provided.

R311.5.8.2 Bulkhead enclosure stairways. Stairways serving bulkhead enclosures, not part of the required building egress, providing access from the outside grade level to the basement shall be exempt from the requirements of Sections R311.4.3 and R311.5 where the maximum height from the basement finished floor level to grade adjacent to the stairway does not exceed 8 feet (2438 mm), and the grade level opening to the stairway is covered by a bulkhead enclosure with hinged doors or other approved means.

R311.5.8.3 Circular stairways. Circular and winding stairways shall have a tread depth at a point not more than 12 inches from the side where the treads are narrower of not less than 10 inches and the minimum depth of any tread shall not be less than 7 inches. Tread depth at any walking line, measured a consistent distance from a side of the stairway, shall be uniform as specified in section R311.5.3.2.

~~**R314.2 Treads and risers.** The maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The riser height shall be measured vertically between leading edges of the adjacent treads. The tread depth shall be measured horizontally~~

1 between the vertical planes of the foremost projection of adjacent treads and at a right angle to the
2 tread's leading edge. The walking surface of treads and landings of a stairway shall be sloped no
3 steeper than one unit vertical in 48 units horizontal (2-percent slope). The greatest riser height within
4 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). The greatest tread
5 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

6 ~~————~~ **R314.2.1 Profile.** The radius of curvature at the leading edge of the tread shall be no greater
7 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19.1 mm) but not more than 1 1/4 inches
8 (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not
9 exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two stories,
10 including the nosing at the level of floors and landings. Beveling of nosing shall not exceed
11 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the
12 tread above at an angle not more than 30 degrees from the vertical. Open risers are permitted,
13 provided that the opening between treads does not permit the passage of a 4-inch-diameter (102 mm)
14 sphere. Stair treads shall be reasonably level with consideration given to shed water, snow and ice.

15 ~~————~~ **Exceptions:**

- 16 ~~————~~ 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
17 ~~————~~ 2. The opening between adjacent treads is not limited on stairs with a total rise of 30
18 inches (762 mm) or less.

19 ~~————~~ **R314.3 Headroom.** The minimum headroom in all parts of the stairway shall not be less
20 than 6 feet 8 inches (2032 mm) measured vertically from the sloped plane adjoining the tread nosing
21 or from the floor surface of the landing or platform.

22 ~~————~~ **Exception:** When demonstrated to the building official there are practical difficulties in
23 achieving 6 feet 8 inches (2032 mm) headroom, a minimum of 6 feet 6 inches (1981 mm) headroom
24 may be allowed.

25 ~~————~~ **R314.4 Winders.** Winders are permitted if the required width of run is provided at a point
26 not more than 12 inches (305 mm) from the side of the stairway where the treads are narrower, but
27 in no case shall the width of run be less than 6 inches (152 mm) at any point. Winding stairways
28 shall also include circular stairways.

29 ~~————~~ **R314.5 Spiral stairs.** Spiral stairways are permitted, provided the minimum width shall be
30 26 inches (660 mm) with each tread having a 7 1/2-inch (190 mm) minimum tread width at 12

1 inches (305 mm) from the narrow edge. All treads shall be identical, and the rise shall be no more
2 than 9 1/2 inches (241 mm). A minimum headroom of 6 feet, 6 inches (1982 mm) shall be provided.

3 ~~———— **R314.6 Circular Stairways - Deleted.**~~

4 ~~———— **R314.7 Illumination.** All stairs shall be provided with illumination in accordance with
5 Section R303.4.~~

6 ~~———— **R314.8 Under stair protection.** Enclosed accessible space under stairs shall have walls,
7 under stair surface and any soffits protected on the enclosed side with 1/2-inch (12.7 mm) gypsum
8 board.~~

9 ~~———— **R314.9 Bulkhead enclosure stairways.** Stairways serving enclosures providing access to
10 mechanical, electrical, or plumbing equipment shall be exempt from Section R312.~~

11 Section 34. That Section 20.10.350 of the Lincoln Municipal Code be and the same
12 is hereby repealed.

13 ~~**20.10.350** — **Section R315 Amended; Handrails.**~~

14 Section R315 of the International Residential Code is amended to read as follows:—

15 ~~**SECTION R315 – HANDRAILS**~~

16 ~~———— **R315.1 Handrails.** Handrails having minimum and maximum heights of 30 inches and 38
17 inches (762 mm and 965 mm), respectively, measured vertically from the nosing of the treads, shall
18 be provided on at least one side of stairways. All required handrails shall be continuous the full
19 length of the stairs with more than three risers or extending 24 inches (610 mm) in height from a
20 point directly above the top riser of a flight to a point directly above the lowest riser of the flight.
21 Handrails adjacent to a wall shall have a space of not less than 1.5 inches (38 mm) between the wall
22 and the handrail.~~

23 ~~———— **Exceptions:**~~

24 ~~———— 1. Handrails shall be permitted to be interrupted by a newel post at a turn.~~

25 ~~———— 2. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.~~

26 ~~———— **R315.2 Handrail grip size.** The handgrip portion of handrails shall have a circular cross
27 section of 1 1/4 inches (32 mm) minimum to 2 5/8 inches (67 mm) maximum. Other handrail shapes
28 that provide an equivalent grasping surface are permissible. Edges shall have a minimum radius of
29 1/8 inch (3.2 mm). On exterior stairs on individual dwelling units, the handrail may consist of a
30 1 1/2 inch (38 mm) thick by a 3 1/2 inch (89 mm) wide piece mounted in the horizontal or vertical
31 dimension.~~

32 Section 35. That Chapter 20.10 of the Lincoln Municipal Code be amended by
33 adding a new section numbered 20.10.355 to read as follows:

34 ~~**20.10.355** Section R 312 Amended; Guards.~~

35 ~~Section R312 of the International Residential Code is amended to read as follows:~~

1 **R312.1 Guards.** Porches, balconies, ramps or raised floor surfaces located more than 30
2 inches (762 mm) above the floor or grade below shall have guards not less than 36 inches (914 mm)
3 in height. Open sides of stairs with a total rise of more than 30 inches (762 mm) above the floor or
4 grade below shall have guards not less than 34 inches (864 mm) in height measured vertically from
5 the nosing of the treads. Porches and decks which are enclosed with insect screening shall be
6 equipped with guards where the walking surface is located more than 30 inches (762 mm) above the
7 floor or grade below.

8 A guard is required when a sidewalk, patio, or driveway is 60 inches or less from an egress
9 window well 30 inches in height or greater.

10 A guard is required when a sidewalk, patio, or driveway is 30 inches or less from a retaining
11 wall of 30 inches in height or greater to the floor or grade below.

12 When retaining wall heights are between 30 inches and 60 inches to the floor or grade
13 below, there shall be a distance ratio maintained from the sidewalk, patio, or driveway equal to or
14 greater than the retaining wall height if no guard is to be installed.

15 **R312.2 Guard opening limitations.** Required guards on open sides of stairways, raised
16 floor areas, balconies and porches shall have intermediate rails or ornamental closures which do not
17 allow passage of a sphere 5 inches (102mm) or more in diameter.

18 **Exceptions:**

19 1. The triangular openings formed by the riser, tread and bottom rail of a guard at the
20 open side of a stairway are permitted to be of such a size that a sphere 6 inches (152 mm) cannot
21 pass through.

22 2. Openings for required guards on the sides of stair treads shall not allow a sphere 4
23 3/8 inches (107 mm) to pass through.

24 Section 36. That Section 20.10.360 of the Lincoln Municipal Code be amended to
25 read as follows:

26 **20.10.360 Section ~~R317.1~~ R313.2 Amended; Single- and Multiple-Station Smoke Alarms.**

27 Section ~~R317.1~~ R313.2 of the International Residential Code is amended to read as follows:

28 **~~R317.1~~ R313.2 Single- and multiple-station smoke alarms.** Single- and multiple-station
29 smoke alarms shall be installed in the following locations:

30 1. In each sleeping room; and

1 2. On each story of the dwelling, including basements and cellars but not including
2 crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without
3 an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall
4 suffice for the adjacent lower level provided that the lower level is less than one full story below the
5 upper level.

6 When more than one smoke alarm is required to be installed within an individual dwelling
7 unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will
8 activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms
9 over background noise levels with all intervening doors closed.

10 All smoke alarms shall be listed and installed in accordance with the provisions of this code
11 and the household fire warning equipment provisions of NFPA 72.

12 Section 37. That Section 20.10.370 of the Lincoln Municipal Code be amended to
13 read as follows:

14 **20.10.370 Section ~~R321.1~~ R317.1 Amended; Two-family Dwellings.**

15 Section ~~R321.1~~ R317.1 of the International Residential Code is amended to read as follows:

16 ~~R321.1~~ R317.1 **Two-family dwellings.** Dwelling units in two-family dwellings shall be
17 separated from each other by wall and/or floor assemblies of not less than 1-hour fire-resistive rating
18 when tested in accordance with ASTM E 119. Fire-resistance-rated floor-ceiling and wall assemblies
19 shall extend to and be tight against the exterior wall, and wall assemblies shall extend to the
20 underside of the roof sheathing. The minimum connection between units of a two-family dwelling
21 shall be an 8-foot roof connection measured parallel to the adjoining walls and connected to each
22 unit.

23 **Exceptions:**

24 1. A fire resistance rating of 1/2 hour shall be permitted in buildings equipped
25 throughout with an automatic sprinkler system installed in accordance with NFPA 13.

26 2. Where the common wall of the dwelling units is located on a property line, the units
27 shall be separated by fire resistance rated wall assemblies meeting the requirements of Section R302
28 for exterior walls.

29 3. Wall assemblies need not extend through attic spaces when the ceiling is protected
30 by not less than 5/8-inch (15.9 mm) Type X gypsum board and an attic draft stop constructed as
31 specified in Section R502.12.1 is provided above and along the wall assembly separating the

1 dwelling. The structural framing supporting the ceiling shall also be protected by not less than 1/2
2 -inch (12.7 mm) gypsum board or equivalent.

3 Section 38. That Section 20.10.380 of the Lincoln Municipal Code be amended to
4 read as follows:

5 **20.10.380 Section ~~R321.2~~ R317.2 Amended; Townhouses.**

6 Section ~~R321.2~~ R317.2 of the International Residential Code is amended to read as follows:

7 **~~R321.2~~ R317.2 Townhouses.** Each townhouse shall be considered a separate building and
8 shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302
9 for exterior walls.

10 **Exception:** A common 2-hour fire-resistance-rated wall is permitted for townhouses if such
11 walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common
12 wall. Electrical installations shall be installed in accordance with Chapter 23.10 of the Lincoln
13 Municipal Code. Penetrations of electrical outlet boxes shall be in accordance with Section ~~R321.3~~
14 R317.3. Structural independence must be provided as required in Section ~~R321.2.4~~ R317.2.4.

15 Section 39. That Section 20.10.390 of the Lincoln Municipal Code be amended to
16 read as follows:

17 **20.10.390 Section ~~R321.2.2~~ R317.2.3 Amended; Parapets.**

18 Section ~~R321.2.2~~ R317.2.3 of the International Residential Code is amended to read as
19 follows:

20 **~~R321.2.2~~ R317.2.3 Parapets.** Parapets constructed in accordance with Section ~~R321.2.3~~
21 R317.2.3 shall be provided for townhouses as an extension of common exterior ~~or~~ walls in
22 accordance with the following:

23 1. Where roof surfaces adjacent to the wall or walls are at the same elevation, the
24 parapet shall extend not less than 30 inches (762 mm) above the roof surfaces.

25 2. Where roof surfaces adjacent to the wall or walls are at different elevations and the
26 higher roof is not more than 30 inches (762 mm) above the lower roof, the parapet shall extend not
27 less than 30 inches (762 mm) above the lower roof surface.

28 **Exception:** A parapet is not required in the two cases above when the roof is covered with
29 a minimum class B roof covering, and the roof decking or sheathing is of noncombustible materials
30 or approved fire-retardant-treated wood for a distance of 4 feet (1219 mm) on each side of the wall
31 or walls, or one layer of 5/8 -inch (15.9 mm) Type X gypsum board is installed directly beneath the

1 roof decking or sheathing for a distance of 4 feet (1219 mm) on each side of the wall or walls; or one
2 layer of 5/8-inch (15.9 mm) Type X gypsum board is installed on the entire ceiling directly below
3 the attic space. Openings in the roof shall not be located within 5 feet of the fire-resistance-rated
4 wall assemblies to meet this exception.

5 3. A parapet is not required where roof surfaces adjacent to the wall or walls are at
6 different elevations and the higher roof is more than 30 inches (762 mm) above the lower roof. The
7 common wall construction from the lower roof to the underside of the higher roof deck shall not
8 have less than a 1-hour fire-resistive rating. The wall shall be rated for exposure from both sides.

9 Section 40. That Section 20.10.400 of the Lincoln Municipal Code be amended to
10 read as follows:

11 **20.10.400 Section ~~R321.2.4~~ R317.2.4 Exception 5 Deleted; Structural Independence.**

12 Exception 5 to Section ~~R321.2.4~~ R317.2.4 of the International Residential Code is hereby
13 deleted.

14 Section 41. That Section 20.10.410 of the Lincoln Municipal Code be amended to
15 read as follows:

16 **20.10.410 Section ~~R322.1~~ R318.1 Amended; Moisture Control.**

17 Section ~~R322.1~~ R318.1 of the International Residential Code is amended to read as follows:
18 **~~R322.1~~ R318.1 Moisture control.** In all framed walls and floors of the building thermal
19 envelope, a vapor retarder shall be installed on the warm-in-winter side of the insulation.

20 **Exceptions:**

- 21 1. In construction where moisture or freezing will not damage the materials.
22 2. Where the framed cavity or space is ventilated to allow moisture to escape.
23 3. Within framed spaces against concrete basement foundation walls. A vapor barrier
24 is not required as part of a framed or furred wall assembly against exterior masonry or poured
25 basement foundation walls.

26 Section 42. That Section 20.10.420 of the Lincoln Municipal Code be amended to
27 read as follows:

28 **20.10.420 Section ~~R323.1~~ R319.1 Amended; Location Required.**

29 Section ~~R323.1~~ R319.1 of the International Residential Code is amended to read as follows:
30 **~~R323.1~~ R319.1 Location required.** ~~In areas subject to decay damage as established by~~
31 ~~Figure R301.2(7),~~ Protection from decay shall be provided in the following locations shall require

1 ~~by the use of an approved species and grade of lumber, pressure preservative~~ treated in accordance
2 ~~with AWPAs C1, C2, C3, C4, C9, C15, C18, C22, C23, C24, C28, P1, P2 and P3, or decay-resistant~~
3 ~~heartwood of redwood, black locust, or cedars~~ naturally durable wood or wood that is preservative
4 treated in accordance with AWPAs U1 for the species, product, preservative and end use.
5 Preservatives shall be listed in Section 4 of AWPAs U1.

6 1. Wood joists or the bottom of a wood structural floor when closer than 18 inches (457
7 mm) or wood girders when closer than 12 inches (305 mm) to exposed ground in crawl spaces or
8 unexcavated area located within the periphery of the building foundation.

9 2. All foundation plates or sills and sleepers on a concrete or masonry slab, which is in
10 direct contact with earth, and sills that rest on concrete or masonry foundations, shall be treated
11 with wood or foundation redwood, all marked or branded by an approved agency.

12 3. Sills and sleepers on a concrete or masonry slab that is in direct contact with the
13 ground unless separated from such slab by an impervious moisture barrier.

14 4. The ends of wood girders entering exterior masonry or concrete walls having
15 clearances of less than 0.5 inch (12.7 mm) on tops, sides and ends.

16 5. Wood siding, sheathing and wall framing on the exterior of a building having a
17 clearance of less than 6 inches (152 mm) from the ground.

18 6. Wood structural members supporting moisture-permeable floors or roofs that are
19 exposed to the weather, such as concrete or masonry slabs, unless separated from such floors or
20 roofs by an impervious moisture barrier.

21 7. Wood furring strips or other wood framing members attached directly to the interior
22 of exterior masonry walls or concrete walls below grade ~~except where an approved vapor retarder~~
23 ~~is applied between the wall and the furring strips or framing members.~~

24 8. Bottom sill plates for bearing walls cannot be imbedded in concrete.

25 Section 43. That Chapter 20.10 of the Lincoln Municipal Code be amended by
26 adding a new section numbered 20.10.425 to read as follows:

27 **20.10.425 Section R319.1.2 Deleted; Ground Contact.**

28 Section R319.1.2 of the International Residential Code is hereby deleted.

29 Section 44. That Section 20.10.430 of the Lincoln Municipal Code be amended to
30 read as follows:

1 **20.10.430 Section ~~R323.1.3~~ R319.1.4 Amended; ~~Posts, Poles and~~ Wood Columns.**

2 Section ~~R323.1.3~~ R319.1.4 of the International Residential Code is amended to read as
3 follows:

4 ~~**R323.1.3**~~ **R319.1.4** ~~**Posts, poles and**~~ **Wood columns.** Wood columns shall be approved
5 wood of natural decay resistance or approved pressure-preservative-treated wood. Posts, poles and
6 columns supporting permanent structures shall bear upon a concrete footing and shall not be
7 imbedded in the concrete or in the ground unless approved for such use.

8 **Exceptions:**

9 1. Columns exposed to the weather or in basements when supported by concrete piers
10 or metal pedestals projecting 1 inch (25.4 mm) above a concrete floor or 6 inches (152 mm) above
11 exposed earth and the earth is covered by an approved impervious moisture barrier.

12 2. Columns in enclosed crawl spaces or unexcavated areas located within the periphery
13 of the building when supported by a concrete pier or metal pedestal at a height more than 8 inches
14 (203mm) from exposed earth and the earth is covered by an impervious moisture barrier.

15 Section 45. That Section 20.10.440 of the Lincoln Municipal Code be amended to
16 read as follows:

17 **20.10.440 Section ~~R325.1~~ R321.1 Amended; Premises Identification.**

18 Section ~~R325.1~~ R321.1 of the International Residential Code is amended to read as follows:

19 ~~**R325.1**~~ **R321.1** **Premises identification.** Approved numbers or addresses shall be provided
20 for all new buildings in such a position as to be plainly visible and legible from the street or road
21 fronting the property. Premises shall have addresses~~s~~ provided on buildings as specified under
22 Chapter 14.24 of the Lincoln Municipal Code.

23 Section 46. That Section 20.10.450 of the Lincoln Municipal Code be amended to
24 read as follows:

25 **20.10.450 Section ~~R326~~ R322 Deleted; Accessibility.**

26 Section ~~R326~~ R322 of the International Residential Code and all subsections thereof are
27 hereby deleted.

28 Section 47. That Section 20.10.460 of the Lincoln Municipal Code be amended to
29 read as follows:

1 **20.10.460 Section R327 R324 Deleted; Flood-Resistant Construction.**

2 Section R327 R324 of the International Residential Code and all subsections thereof are
3 hereby deleted. Lincoln Municipal Code Chapters 27.52 and 27.53 will apply.

4 Section 48. That Chapter 20.10 of the Lincoln Municipal Code be amended by
5 adding a new section numbered 20.10.462 to read as follows:

6 **20.10.462 Table R401.4.1 Amended; Load Bearing Values.**

7 Table R401.4.1 of the International Residential Code is amended to read as follows:

8 **TABLE R401.4.1**
9 **PRESUMPTIVE LOAD-BEARING VALUES OF**
10 **FOUNDATION MATERIALS ^a**

<u>CLASS OF MATERIAL</u>	<u>LOAD-BEARING PRESSURE</u> (pounds per square foot)
<u>Crystalline bedrock</u>	<u>12,000</u>
<u>Sedimentary and foliated rock</u>	<u>4,000</u>
<u>Sandy gravel and/or gravel (GW and GP)</u>	<u>3,000</u>
<u>Sand, silty sand, clayey sand, silty gravel and clayey gravel</u> (SW, SP, SM, SC, GM and GC)	<u>2,000</u>
<u>Clay, sandy clay, silty clay, clayey silt, silt and sandy silt</u> (CL, ML, MH and CH)	<u>2,000</u>

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21 For SI: 1 pound per square foot = 0.0479 kPa.

22 a. When soil tests are required by Section R401.4, the allowable bearing capacities of the
23 soil shall be part of the recommendations.

24 Section 49. That Chapter 20.10 of the Lincoln Municipal Code be amended by
25 adding a new section numbered 20.10.464 to read as follows:

26 **20.10.464 Section R403.1.1 Amended; Minimum Footing Sizes.**

27 Section R403.1.1 of the International Residential Code is amended to read as follows:

28 **R403.1.1 Minimum size.** Minimum sizes for concrete and masonry footings shall be as
29 set forth in Table R403.1 and Figure R403.1(1). The footing width, W, shall be based on the
30 load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least
31 8 inches (152 mm) thick. Footing projections, P, shall be at least 2 inches (51 mm) and shall not

1 exceed the thickness of the footing. The size of footings supporting piers and columns shall be
 2 based on the tributary load and allowable soil pressure in accordance with Table R401.4.1.
 3 Footings for wood foundations shall be in accordance with the details set forth in Section R403.2,
 4 and Figures R403.1(2) and R403.1(3).

5 Section 50. That Chapter 20.10 of the Lincoln Municipal Code be amended by
 6 adding a new section numbered 20.10.466 to read as follows:

7 **20.10.466 Table R403.1 Amended; Minimum Width of Footings.**

8 Table R403.1 of the International Residential Code is amended to read as follows:

9 **TABLE R403.1**
 10 **MINIMUM WIDTH OF CONCRETE OR**
 11 **MASONRY FOOTINGS**
 12 **(inches)^a**

	<u>LOAD-BEARING VALUE OF SOIL (psf)</u>		
	<u>2,000</u>	<u>3,000</u>	<u>≥4,000</u>
<u>Conventional light-frame construction</u>			
<u>1-story</u>	<u>12</u>	<u>12</u>	<u>12</u>
<u>2-story</u>	<u>16</u>	<u>12</u>	<u>12</u>
<u>3-story</u>	<u>17</u>	<u>12</u>	<u>12</u>
<u>4-inch brick veneer over light frame or 8-inch hollow concrete masonry</u>			
<u>1-story</u>	<u>12</u>	<u>12</u>	<u>12</u>
<u>2-story</u>	<u>16</u>	<u>12</u>	<u>12</u>
<u>3-story</u>	<u>24</u>	<u>16</u>	<u>12</u>
<u>8-inch solid or fully grouted masonry</u>			
<u>1-story</u>	<u>12</u>	<u>12</u>	<u>12</u>
<u>2-story</u>	<u>21</u>	<u>14</u>	<u>12</u>
<u>3-story</u>	<u>32</u>	<u>21</u>	<u>16</u>

25 For SI: 1 inch = 25.4 mm, 1 pound per square foot = 0.0479 kPa.

26 a. Where minimum footing width is 12 inches, use of a single wythe of solid or fully grouted
 27 12-inch nominal concrete masonry units is permitted.

1 Section 51. That Chapter 20.10 of the Lincoln Municipal Code be amended by
2 adding a new section numbered 20.10.467 to read as follows:

3 **20.10.467 Figures 403.1(1), 403.1(2) and 403.1(3) Amended; Footings.**

4 Figures 403.1(1), 403.1(2) and 403.1(3) of the International Residential Code are amended
5 as shown on said figures at the end of this chapter. [Figures 403.1(1), 403.1(2) and 403.1(3)
6 are attached to this ordinance as Attachments A, B and C, respectively]

7 Section 52. That Chapter 20.10 of the Lincoln Municipal Code be amended by
8 adding a new section numbered 20.10.466 to read as follows:

9 **20.10.468 Section R403.1.4.1 Amended; Frost Protection.**

10 Section R403.1.4.1 of the International Residential Code is amended to read as follows:

11 **R403.1.4.1 Frost protection.** Foundation walls, piers and other permanent supports of
12 buildings and structures shall be protected from frost by one or more of the following methods:

- 13 1. Extended below the frost line specified in Table R301.2.(1);
- 14 2. Erected on solid rock.

15 **Exceptions:**

16 1. Protection of freestanding accessory structures with an area of 400 square feet or
17 less, of light-framed construction, with an eave height of 10 feet (3048 mm) or less shall not be
18 required.

19 2. Protection of freestanding accessory structures with an area of 500 square feet or
20 less, of light-framed construction, with an eave height of 10 feet (3048 mm) or less shall be
21 allowed to be a monolithic slab as shown in Figure R403.3(1).

22 3. Decks not supported by a dwelling need not be provided with footings that extend
23 below the frost line.

24 Slabs and monolithic slabs shall not bear on new fill unless compacted.

25 Section 53. That Section 20.10.470 of the Lincoln Municipal Code be amended
26 to read as follows:

27 **20.10.470 Section R403.1.6 ~~Exception Deleted~~ Amended; Foundation Anchorage.**

28 The exception to Section R403.1.6 of the International Residential Code is hereby deleted
29 amended to read as follows:

1 **R403.1.6 Foundation anchorage.** When braced wall panels are supported directly on
2 continuous foundations, the wall wood sill plate or cold-formed steel bottom track shall be
3 anchored to the foundation in accordance with this section.

4 The wood sole plate at exterior walls on monolithic slabs and wood sill plate shall be
5 anchored to the foundation with anchor bolts spaced a maximum of 6 feet (1829 mm) on center.
6 There shall be a minimum of two bolts per plate section with one bolt located not more than 12
7 inches (305 mm) or less than seven bolt diameters from each end of the plate section. In Seismic
8 Design Categories D0, D1 and D2, anchor bolts shall be spaced at 6 feet (1829 mm) on center and
9 located within 12 inches (305 mm) of the ends of each plate section at interior braced wall lines
10 when required by Section R602.10.9 to be supported on a continuous foundation. Bolts shall be
11 at least 1/2 inch (13 mm) in diameter and shall extend a minimum of 7 inches (178 mm) into
12 masonry or concrete. Interior bearing wall sole plates on monolithic slab foundation shall be
13 positively anchored with approved fasteners. A nut and washer shall be tightened on each bolt
14 of the plate. Sills and sole plates shall be protected against decay and termites where required by
15 Sections R319 and R320. Cold-formed steel framing systems shall be fastened to the wood sill
16 plates or anchored directly to the foundation as required in Section R505.3.1 or R603.1.1.

17 **Exceptions:**

18 1. Foundation anchorage, spaced as required to provide equivalent anchorage to
19 1/2-inch-diameter (13 mm) anchor bolts. “Y” foundation anchor straps are not equivalent.

20 2. Walls 24 inches (610 mm) total length or shorter connecting offset braced wall
21 panels shall be anchored to the foundation with a minimum of one anchor bolt located in the
22 center third of the plate section and shall be attached to adjacent braced wall panels per Figure
23 R602.10.5 at corners.

24 3. Walls 12 inches (305 mm) total length or shorter connecting offset braced wall
25 panels shall be permitted to be connected to the foundation without anchor bolts. The wall shall
26 be attached to adjacent braced wall panels per Figure R602.10.5 at corners.

27 Section 54. That Chapter 20.10 of the Lincoln Municipal Code be amended by
28 adding a new section numbered 20.10.475 to read as follows:

1 **20.10.475** **Table R404.1.1(5) Deleted; Figure R404.1.1(5) Added; Minimum**
2 **Reinforcement; Residential Poured Walls.**

3 Table R404.1.1(5) of the International Residential Code is hereby deleted and replaced
4 with Figure R404.1.1(5) as shown on said figure at the end of this chapter. [Figure 404.1.1(5) is
5 attached to this ordinance as Attachment D].

6 Section 55. That Chapter 20.10 of the Lincoln Municipal Code be amended by
7 adding a new section numbered 20.10.476 to read as follows:

8 **20.10.476** **Figure R404.1.1(6) Added; Minimum Concrete Foundation Wall Corner**
9 **Detail; Residential Poured Wall.**

10 Figure R404.1.1(6) is added to the International Residential Code as shown on said figure
11 at the end of this chapter. [Figure 404.1.1(6) is attached to this ordinance as Attachment E].

12 Section 56. That Chapter 20.10 of the Lincoln Municipal Code be amended by
13 adding a new section numbered 20.10.477 to read as follows:

14 **20.10.477** **Figure R404.1.1(7) Added; Permanent Masonry Foundation Basement Wall**
15 **Section.**

16 Figure R404.1.1(7) is added to the International Residential Code as shown on said figure
17 at the end of this chapter. [Figure 404.1.1(7) is attached to this ordinance as Attachment F].

18 Section 57. That Section 20.10.480 of the Lincoln Municipal Code be amended
19 to read as follows:

20 **20.10.480** **Section R408.67 Deleted; Flood Resistance.**

21 Section R408.67 of the International Residential Code is hereby deleted. Lincoln
22 Municipal Code Chapter 27.52 and 27.53 will apply.

23 Section 58. That Chapter 20.10 of the Lincoln Municipal Code be amended by
24 adding a new section numbered 20.10.485 to read as follows:

25 **20.10.485** **Section R502.2.3 Added; Fastener Spacing Recommendations.**

26 Section 502.2.3 is added to the International Residential Code to read as follows:

27 **R502.2.3 Fastener Spacing Recommendations for Residential Deck Ledgers When**
28 **Using Pressure Treated Syp Sawn Lumber**

29 Joist Span (ft) Up to 10' 10'-1" to 18'

30 1/2" diameter lag screw
31 with 1/2" sheathing 18" o.c. 12" o.c.

32 1/2" diameter bolt

1 **20.10.535 Sections R702.3.8 and R702.3.8.1 Deleted; Water-resistant Gypsum Backing**
2 **Board.**

3 Sections R702.3.8 and R702.3.8.1 of the International Residential Code are hereby
4 deleted.

5 Section 61. That Chapter 20.10 of the Lincoln Municipal Code be amended by
6 adding a new section numbered 20.10.537 to read as follows:

7 **20.10.537 Section R702.4.2 Amended; Gypsum Backer Board.**

8 Section R702.4.2 of the International Residential Code is amended to read as follows:

9 **R702.4.2 Cement, fiber-cement and glass mat gypsum backers.** Cement, fiber-cement
10 or glass mat gypsum backers in compliance with ASTM C 1288, C 1325 or C 1178 and installed
11 in accordance with manufacturers' recommendations shall be used as backers for wall tile in tub
12 and shower areas and wall panels in shower areas. Regular gypsum wallboard is permitted under
13 tile or wall panels in other wall and ceiling areas when installed in accordance with GA-216 or
14 ASTM C 840.

15 Section 62. That Chapter 20.10 of the Lincoln Municipal Code be amended by
16 adding a new section numbered 20.10.545 to read as follows:

17 **20.10.545 Section R703.2 Amended; Water Resistive Barrier.**

18 Section R703.2 of the International Residential Code is amended to read as follows:

19 **R703.2 Water-resistive barrier.** One layer of No. 15 asphalt felt, free from holes and
20 breaks, complying with ASTM D 226 for Type 1 felt or other approved water-resistive barrier
21 shall be applied over studs or sheathing of all exterior walls. Such felt or material shall be applied
22 horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51 mm).
23 Where joints occur, felt shall be lapped not less than 6 inches (152 mm). The felt or other
24 approved material shall be continuous to the top of walls and terminated at penetrations and
25 building appendages in a manner to meet the requirements of the exterior wall envelope as
26 described in Section R703.1.

27 **Exception:** Omission of the water-resistive barrier is permitted in the following situations:

28 1. In detached accessory buildings under 120 square feet.

29 Section 63. That Section 20.10.550 of the Lincoln Municipal Code be amended
30 to read as follows:

1 **20.10.550 Table R703.7.13 Deleted; Allowable Spans for Lintels Supporting Masonry**
2 **Veneer.**

3 Table R703.7.13 of the International Residential Code is hereby deleted.

4 Section 64. That Section 20.10.580 of the Lincoln Municipal Code be amended
5 to read as follows:

6 **20.10.580 Section R703.7.4.2 Amended; Air Space.**

7 Section R703.4.2 of the International Residential Code is amended to read as follows:

8 **R703.7.4.2 Air space.** The veneer shall be separated from the sheathing by an air space
9 of a minimum of 1/2 inch (12.7 mm), but not more than 4 1/2 inches (114 mm). The weather
10 resistant membrane or asphalt-saturated felt required by Section R703.2 is not required over
11 water-repellent sheathing materials.

12 Section 65. That Section 20.10.620 of the Lincoln Municipal Code be amended
13 to read as follows:

14 **20.10.620 Section R703.8 Amended; Flashing.**

15 Section R703.8 of the International Residential Code is amended to read as follows:

16 **R703.8 Flashing.** Approved corrosion-resistive flashing shall be provided in the exterior
17 wall envelope in such a manner as to prevent entry of water into the wall cavity or penetration
18 of water to the building structural framing components. The flashing shall extend to the surface
19 of the exterior wall finish and shall be installed to prevent water from reentering the exterior wall
20 envelope. Approved corrosion-resistant flashings shall be installed at all of the following
21 locations:

22 1. At top of all exterior window and door openings in such a manner as to be
23 leakproof, except that self-flashing windows having a continuous lap of not less than 1 1/8 inches
24 (28 mm) over the sheathing material around the perimeter of the opening, including corners, do
25 not require additional flashing; jamb flashing may also be omitted when specifically approved
26 by the building official.

27 2. At the intersection of chimneys or other masonry construction with frame or
28 stucco walls, with projecting lips on both sides under stucco copings.

29 3. Under and at the ends of masonry, copings and sills.

30 4. Continuously above all projecting wood or composite trim.

1 5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-
2 frame construction.

3 6. At wall and roof intersections.

4 7. At built-in gutters.

5 **Exceptions:**

6 1. The requirements of subparagraphs 1 and 3 above may be deleted if a
7 poured concrete foundation is used with a minimum 7-inch (178 mm) brickledge drop and all
8 exterior window and door openings are caulked with sealant.

9 2. Where exterior porches, decks, or stairs attach to the outside of a finished
10 exterior wall (i.e. cementboard siding, ~~wood siding~~, brick veneer, EIFS, etc.), subparagraph 5
11 above may be deleted. This exception does not include wood, vinyl or steel siding applications.

12 3. Where soffits serve as protection for the upper course of brick veneer.

13 Section 66. That Section 20.10.640 of the Lincoln Municipal Code be amended
14 to read as follows:

15 **20.10.640 Section R903.1 Amended; Weather Protection, General.**

16 Section R903.1 of the International Residential Code is amended to read as follows:

17 **R903.1 General.** Roof decks shall be covered with approved roof coverings secured to
18 the building or structure in accordance with the provisions of this chapter. Roof assemblies shall
19 be designed and installed in accordance with this code and the approved manufacturer's
20 installation instructions such that the roof assembly shall serve to protect the building or structure.
21 ~~Any special conditions in this chapter that refer to the average daily temperature in January being~~
22 ~~25 degrees Fahrenheit (-4 degrees Celsius) or less shall not apply.~~

23 Section 67. That Section 20.10.660 of the Lincoln Municipal Code be amended
24 to read as follows:

25 **20.10.660 Section R907.3 Amended; Reroofing; Recovering Versus Replacement.**

26 Section R907.3 of the International Residential Code is amended to read as follows:

27 **R907.3 Recovering versus replacement.** New roof coverings shall not be installed
28 without first removing existing roof coverings where any of the following conditions occur:

29 1. Where the existing roof or roof covering is water-soaked or has deteriorated to the
30 point that the existing roof or roof covering is not adequate as a base for additional roofing.

1 2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-
2 cement tile.

3 3. Where the existing roof has two or more applications of any type of roof covering.

4 **Exception:** ~~Subsequent roofing after two layers of shingles will require removal of all~~
5 ~~shingles to the base roof sheathing or structure. Up to three layers may be allowed if load calcula-~~
6 ~~tions are approved by the building official. The application of new protective coating over~~
7 ~~existing spray polyurethane foam roofing systems shall be permitted without tear-off of existing~~
8 ~~roof covering.~~

9 Section 68. That Section 10.20.670 of the Lincoln Municipal Code be amended
10 to read as follows:

11 **20.10.670 Section ~~R1001.8~~ R1003.11 Amended; Masonry Chimneys; Flue Lining**
12 **(Material).**

13 Section ~~R1001.8~~ R1003.11 of the International Residential Code is amended to read as
14 follows:

15 ~~**R1001.8**~~ **R1003.11** **Flue lining (material).** Masonry chimneys shall be lined. The
16 lining material shall be appropriate for the type of appliance connected, according to the terms
17 of the appliance listing and manufacturer's instructions.

18 ~~**R1001.8.1**~~ - Deleted.

19 ~~**R1001.8.2**~~ - Deleted.

20 ~~**R1001.8.3**~~ **R1003.11.3** - Deleted.

21 ~~**R1001.8.4**~~ **R1003.11.5** - Deleted.

22 ~~**R1001.8.5**~~ - Deleted.

23 ~~**R1001.8.6**~~ - Deleted.

24 Section 69. That Section 20.10.680 of the Lincoln Municipal Code be amended
25 to read as follows:

26 **20.10.680 Section ~~R1001.9.2~~ R1003.12.2 Deleted; Space Around Lining.**

27 Section ~~R1001.9.2~~ R1003.12.2 of the International Residential Code is hereby deleted.

28 Section 70. that Section 20.10.690 of the Lincoln Municipal Code be amended
29 to read as follows:

30 **20.10.690 Section ~~R1001.11~~ and Tables Deleted R1003.14; Flue Area (Appliance).**

1 Section ~~R1001.11~~ R1003.14 and ~~Tables R1001.11(1) and R1001.11(2)~~ of the International
2 Residential Code are hereby deleted.

3 Section 71. That Chapter 20.10 of the Lincoln Municipal Code be amended by
4 adding a new section numbered 20.10.695 to read as follows:

5 **20.10.695 Section R1004 Deleted; Factory Built Fireplaces.**

6 Section R1004 of the International Residential Code is hereby deleted.

7 Section 72. That Section 20.10.700 of the Lincoln Municipal Code be amended
8 to read as follows:

9 **20.10.700 Chapter 11 Amended; Energy Code.**

10 Chapter 11 of the International Residential Code is amended to read as follows:

11 **CHAPTER 11**

12 **ENERGY CODE**

13 **SECTION 1100 – PURPOSE OF ENERGY CODE.**

14 The purpose of this chapter is to provide minimum design requirements and criteria that
15 will result in a more efficient utilization of energy by providing thermal design and insulation
16 standards for building construction. Any references in this code to the International Energy Code
17 shall comply with this section.

18 **SECTION 1101 - ENERGY CODE - APPLICATION AND SCOPE.**

19 **1101.1 General.** The requirements of this chapter shall apply to all new buildings and
20 structures or portions thereof which are heated and/or mechanically cooled and afford facilities
21 or residential occupancies as defined in this code as A-1 and A-2 occupancies and R-1, R-2, R-3,
22 R-4, and I-1 occupancies as defined by the International Building Code.

23 **1101.2 Alternate Materials, Method of Construction, Design or Insulating System.**

24 The provisions of this chapter are not intended to prevent the use of any material, method of
25 construction, design or insulating system not specifically prescribed herein, provided that any
26 such variance from these standards has been approved by the building official.

27 **1101.3 Existing Buildings, Additions or Alterations.** The provisions of this chapter

28 are not intended to apply to existing buildings until such time as additions, alterations or repairs
29 are made.

1 **SECTION 1102 - -- ENERGY CODE - DEFINITIONS**

2 For the purpose of this chapter, certain terms and words are hereby defined. Words used
3 in the present tense shall include the future, the singular number shall include the plural.

4 **APPROVED MECHANICAL ENGINEERED SYSTEM.** The equipment and
5 ductwork installed for the purpose of supplying air to, or removing air from, any room or space
6 by mechanical means in accordance with the Lincoln Heating Code.

7 ~~**BASEMENT.** Basement as described in Section R202 of this code.~~

8 ~~**BTU (British thermal unit).** Approximately equal to the heat required to raise the
9 temperature of one pound of water from fifty-nine degrees Fahrenheit to sixty degrees Fahrenheit.~~

10 ~~**BTUH.** Heat flow in BTU per hour.~~

11 ~~**U-VALUE (co-efficient of heat transmission).** Heat flow rate in BTUH through one
12 foot of building assembly for a one degree Fahrenheit air-to-air temperature difference as
13 determined by procedures set forth in the 1993 edition, ASHRAE handbook of fundamentals.~~

14 ~~**CONDITIONED SPACE.** Interior space which is conditioned within the human
15 comfort range by an energy-using system. A basement, crawl space, or garage is considered a
16 conditioned space when it is provided with a positive heat supply to maintain a minimum
17 temperature of fifty degrees.~~

18 **CRAWL SPACE.** Accessible underfloor area less than full story height and below a
19 level of occupancy.

20 **GLAZING.** Glass or glass-like (plastic) material, which is transparent or translucent, a
21 pane or sheet, which is installed in prepared openings such as doors, windows and enclosures.

22 **EFFECTIVE SOUTH GLAZING.** Glazing facing within fifteen degrees of true south,
23 shaded by a permanent exterior shading device on July 21st and unshaded on December 21st.

24 **HEATED SLAB.** A floor containing heated pipes, ducts or electrical heating elements
25 for complete or partial heating of the building.

26 ~~**INSULATION.** A material installed specifically for thermal resistance.~~

27 ~~**RESISTANCE (thermal).** A measure of the ability to retard heat flow, measured in
28 Fahrenheit degrees per BTU/(hour)(square foot). R is a numerical reciprocal of U, thus $R = 1/U$.
29 Thermal resistance values, based on mean temperature difference of seventy-five degrees
30 Fahrenheit, shall be obtained from the most recent ASHRAE handbook of fundamentals or from
31 manufacturer's data as determined by a recognized independent testing laboratory.~~

1 **UNCONDITIONED SPACE.** A space which is not conditioned within the human com-
 2 fort range by an energy-using system. A basement, crawl space, or garage is considered unheated
 3 space unless it is provided with a positive heat supply to maintain a minimum temperature of fifty
 4 degrees.

5 **UNHEATED SLAB.** An unheated floor, relying for warmth from heat delivered above
 6 floor level by the heating system.

7 ~~**VAPOR BARRIER.** A material with high resistance to the passage of water vapor~~
 8 ~~applied to surfaces to prevent vapor travel and shall be a minimum actual thickness of 3 mil.~~

9 **P.S.F.** Pounds per square foot.

10 **SECTION 1103 -- INSULATION REQUIREMENTS - RESIDENTIAL BUILDINGS**

11 The maximum average coefficient of heat transmission for construction elements between
 12 conditioned and unconditioned space for residential occupancy shall be as follows:

13	CONSTRUCTION ELEMENT	U-VALUE¹	R-VALUE¹
14	Walls (except basement, cellar, and crawl space)	.065	15.40
15	Basement, cellar, and crawl space walls	.130	7.69
16	Ceilings	.0263	38.00
17	Floors²	.034	30.00
18	Roofs	.0263	38.00
19	Glazing in Windows and Doors	.56	1.79
20	<u>Basement walls³</u>		<u>11.00</u>
21	<u>Ceilings</u>		<u>38.00</u>
22	<u>Crawl Space</u>		<u>13.00</u>
23	<u>Floors²</u>		<u>30.00</u>
24	<u>Roofs</u>		<u>38.00</u>
25	<u>Glazing in Windows and Doors (Low E Windows)</u>	<u>.35</u>	

26 ¹ U-Values and R-Values do not require adjustments for framing.

27 ² Insulation not required for basement floors more than 3 feet below
 28 grade; otherwise, see slab-at-grade floors.

29 ³ Basement finish of exterior concrete foundation walls only at time of
 30 finish.

1 Note: This section is considered a prescriptive method for complying with the Nebraska Energy
2 Code. Alternative methods may be submitted with appropriate Res-Check documentation.

3 **Walls:** Exterior floor perimeter bands ~~Where practicable, walls shall meet stated R-value~~
4 ~~for “walls (except basement, cellar and crawl space)” at exterior floor perimeter bands.~~

5 ~~Interior insulation shall be a minimum depth of three feet below grade or to the basement~~
6 ~~floor whichever is less.~~

7 When insulation is applied to the exterior side of foundation walls which are partly above
8 grade, the insulation shall have a protective covering installed as recommended by the manufacturer
9 on the above-grade section and the top one foot of the insulation material below grade.

10 **Glazing and doors:** Low E glazing is required for all habitable spaces. Glazed area other
11 than effective south glazing shall total no more than fifteen percent of the gross floor area.
12 Additional glass area may be added as effective south glazing. The effective south glazing area must
13 be integrated into the design so that indoor temperatures throughout the building can be maintained
14 within the human comfort range at all times. A thermal storage material equal to a minimum of
15 twenty-two B.T.U. per degree Fahrenheit for each square foot of effective south glazing shall absorb
16 the heat energy from the solar input which might otherwise result in building temperature variations
17 above the human comfort range. Basement floor area shall contribute to glazed area allowance for
18 basement only. All spaces around exterior framing shall be filled with insulation.

19 **Slab-at-grade floors:** Perimeter insulation shall be used to reduce the slab heat loss. The
20 thermal resistance of the insulation around the perimeter of the floor shall have a minimum
21 resistance of R-7 for heated slabs and R-5 for unheated slabs. The insulation shall extend downward
22 from the top of the slab for a minimum distance of twenty-four inches or downward to the bottom
23 of the slab, then horizontally below the slab for a minimum total distance of twenty-four inches.
24 This applies only to that part of the total slab which is below a heated space. Insulation not required
25 for floors more than 3 feet below grade.

26 ~~**Air leakage - Windows** -- Windows shall be designed to limit air leakage into or from the~~
27 ~~building. Air leakage rate for windows shall not exceed 0.5 cfm per foot of sash crack when tested~~
28 ~~at a pressure differential of 1.576 lb/ft., equivalent to the impact pressure of 25 mph wind.~~

29 ~~—— **Air leakage - Doors:** All exterior doors shall be designed to limit air leakage into or from~~
30 ~~the building when in a closed position.~~

1 ~~———— Air leakage for manual sliding glazed doors shall not exceed 0.5 cubic feet per minutes per~~
2 ~~square foot of door area in the closed position, when tested at a pressure differential of 1.567 lb/ft.~~

3 ~~———— Compliance with the criteria for air leakage of all types of windows and doors shall be~~
4 ~~determined by American Society for Testing Materials 283-73, "standard method of test for rate of~~
5 ~~air leakage through exterior windows, curtain walls, and doors."~~

6 **Fireplaces:** All woodburning fireplaces and combustion air intakes for woodburning
7 fireplaces shall be equipped with dampers.

8 **Caulking and sealants:** Exterior joints around windows and door frames, between wall and
9 foundation, between wall and roof, between wall panels, at penetrations of utility services through
10 walls, floors and roofs, and all other openings to the exterior envelope shall be caulked, gasketed,
11 and/or otherwise sealed in an approved manner.

12 **Vapor barriers:** When the construction includes any material including insulation that
13 would be damaged by moisture or its freezing, a vapor barrier shall be installed as near to the warm
14 surface of the walls, ceiling, roof, and floors as practicable. Vapor barriers are not, however,
15 required on ceilings which have a ventilated attic space above the ceiling. The vapor barrier shall
16 have a maximum transmission rating of .25 perm or a rating lower than that of all other materials
17 included as part of the wall, ceiling, roof, or floor of which the vapor barrier is applied, whichever
18 is lowest.

19 **Building insulation:** Materials used for insulation shall be of approved effectiveness and
20 adequate durability as established by nationally recognized testing laboratories or agencies to assure
21 that required design conditions concerning heat losses are maintained. Insulation in contact with
22 the ground shall be of such a type so as not to be adversely affected by soil, vermin, or water. When
23 eave vents are installed, adequate baffling of the vent opening must be provided to deflect the
24 incoming air above the surface of the insulation.

25 **Insulation air barrier:** An air barrier, which may be house wrap, drywall, rigid sheathing
26 or similar material, is required on the cold side of insulated walls located adjacent to attics, unheated
27 spaces or sky light enclosures. Walls adjacent to heated spaces shall meet minimum R- values as
28 specified in Section 1103.

29 **Duct Insulation:** Heating Ducts and plumbing above an unheated, attached garage shall be
30 insulated with a minimum of R-13 insulation.

1 Section 73. That Sections 20.10.010, 20.10.020, 20.10.040, 20.10.070, 20.10.080,
2 20.10.100, 20.10.140, 20.10.160, 20.10.180, 20.10.190, 20.10.200, 20.10.210.. 20.10.220, 20.10.230,
3 20.10.250, 20.10.260, 20.10.270, 20.10.280, 20.10.290, 20.10.300, 20.10.330, 20.10.340, 20.10.360,
4 20.10.370, 20.10.380, 20.10.390, 20.10.400, 20.10.410, 20.10.420, 20.10.430, 20.10.440, 20.10.450,
5 20.10.460, 20.10.470, 20.10.480, 20.10.480, 20.10.550, 20.10.580, 20.10.620, 20.10.640, 20.10.660,
6 20.10.670, 20.10.680, 20.10.690, 20.10.700 of the Lincoln Municipal Code as hitherto existing be
7 and the same are hereby repealed.

8 Section 74. Pursuant to Article VII, Section 7 of the City Charter, this ordinance
9 shall be posted on the official bulletin board of the City in lieu of and in place of newspaper
10 publication with notice of passage and such posting to be given by publication one time in the
11 official newspaper by the City Clerk. This ordinance shall take effect and be in force from and after
12 its passage and publication as herein and in the City Charter provided.

Introduced by:

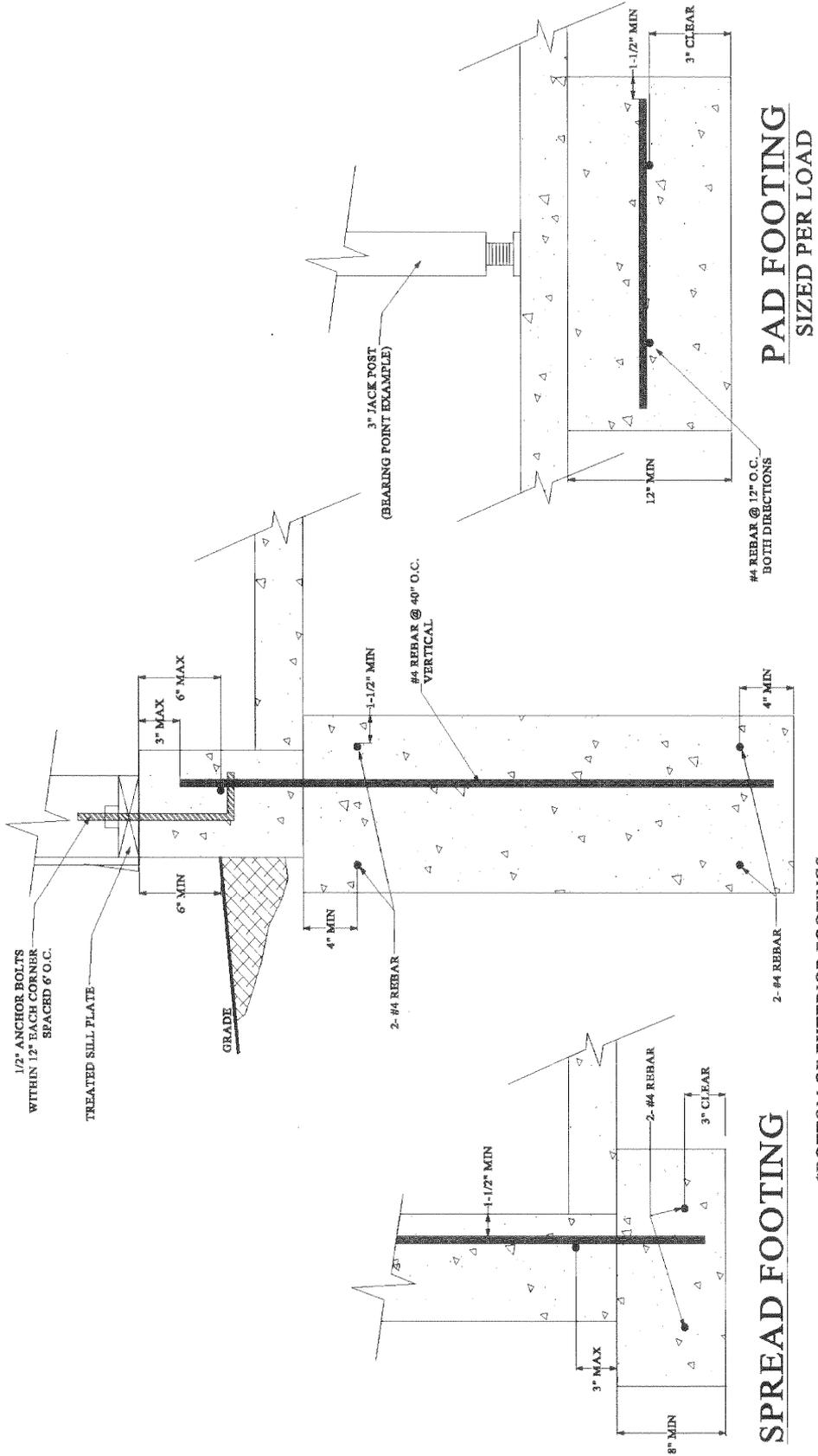
Approved as to Form & Legality:

City Attorney

Approved this ___ day of _____, 20__:

Mayor

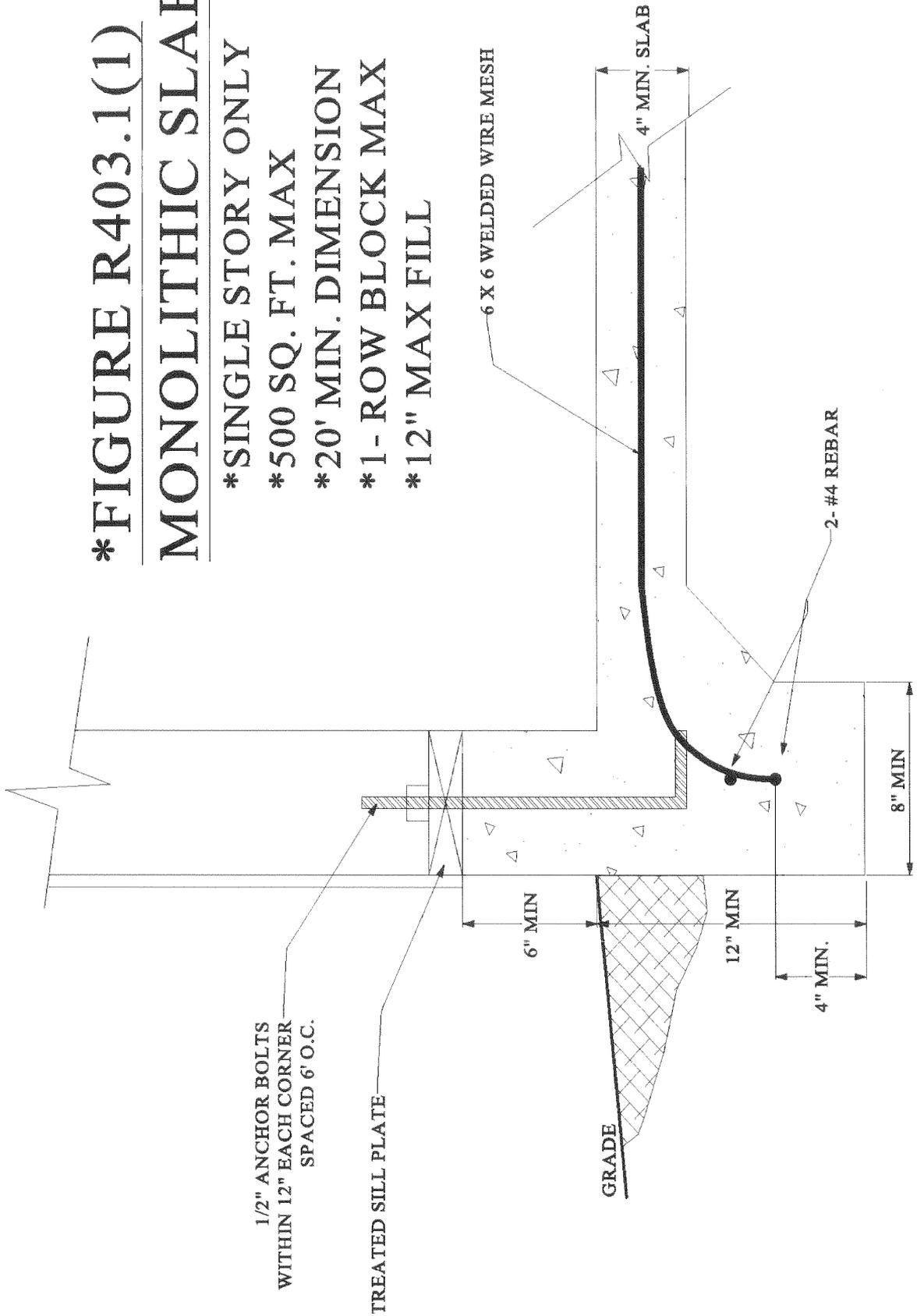
***FIGURE 403.1(1)**
MINIMUM FOOTING REINFORCEMENT



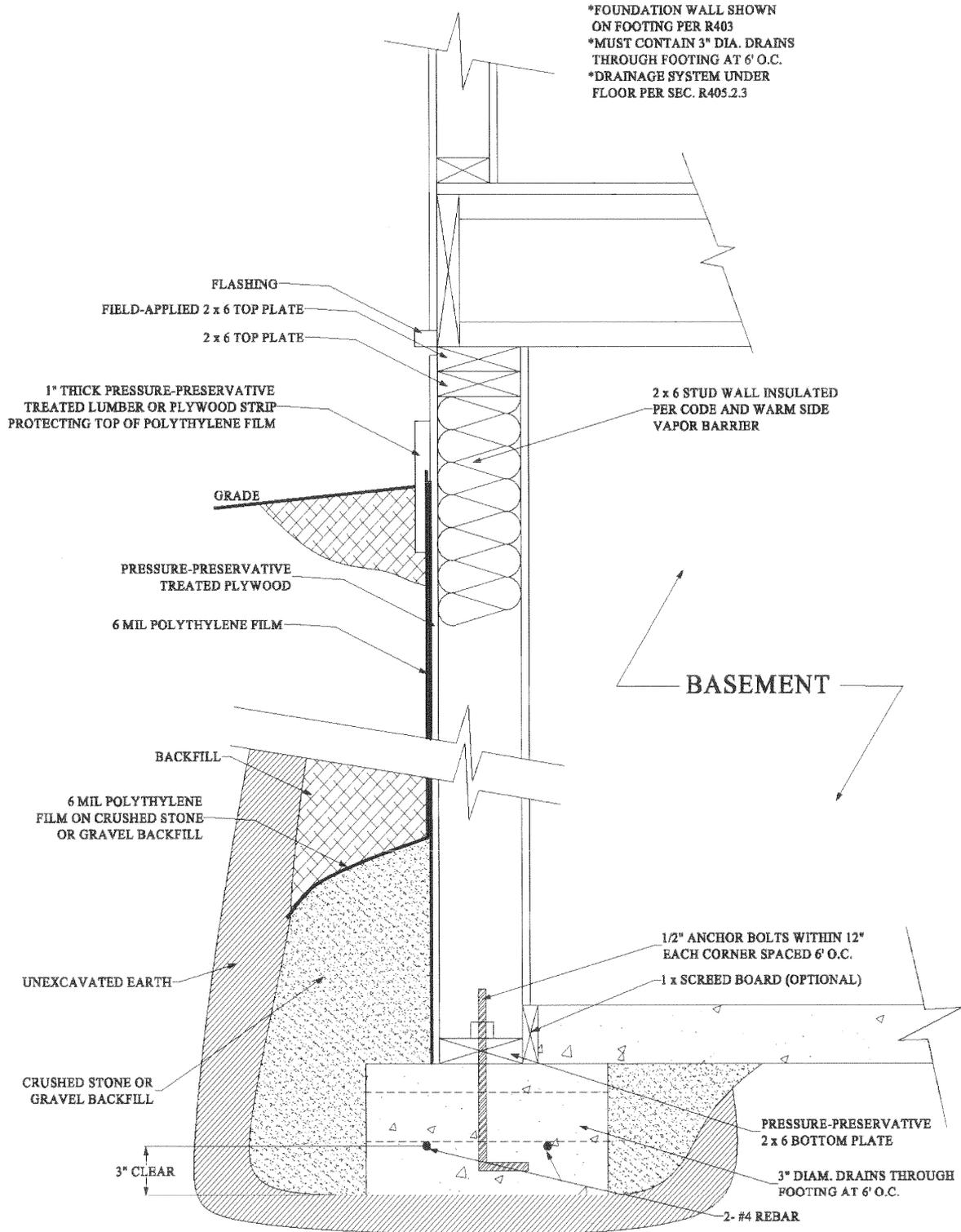
STEEL REINFORCEMENT MUST BE IN PLACE BEFORE POURING CONCRETE

***FIGURE R403.1(1) MONOLITHIC SLAB**

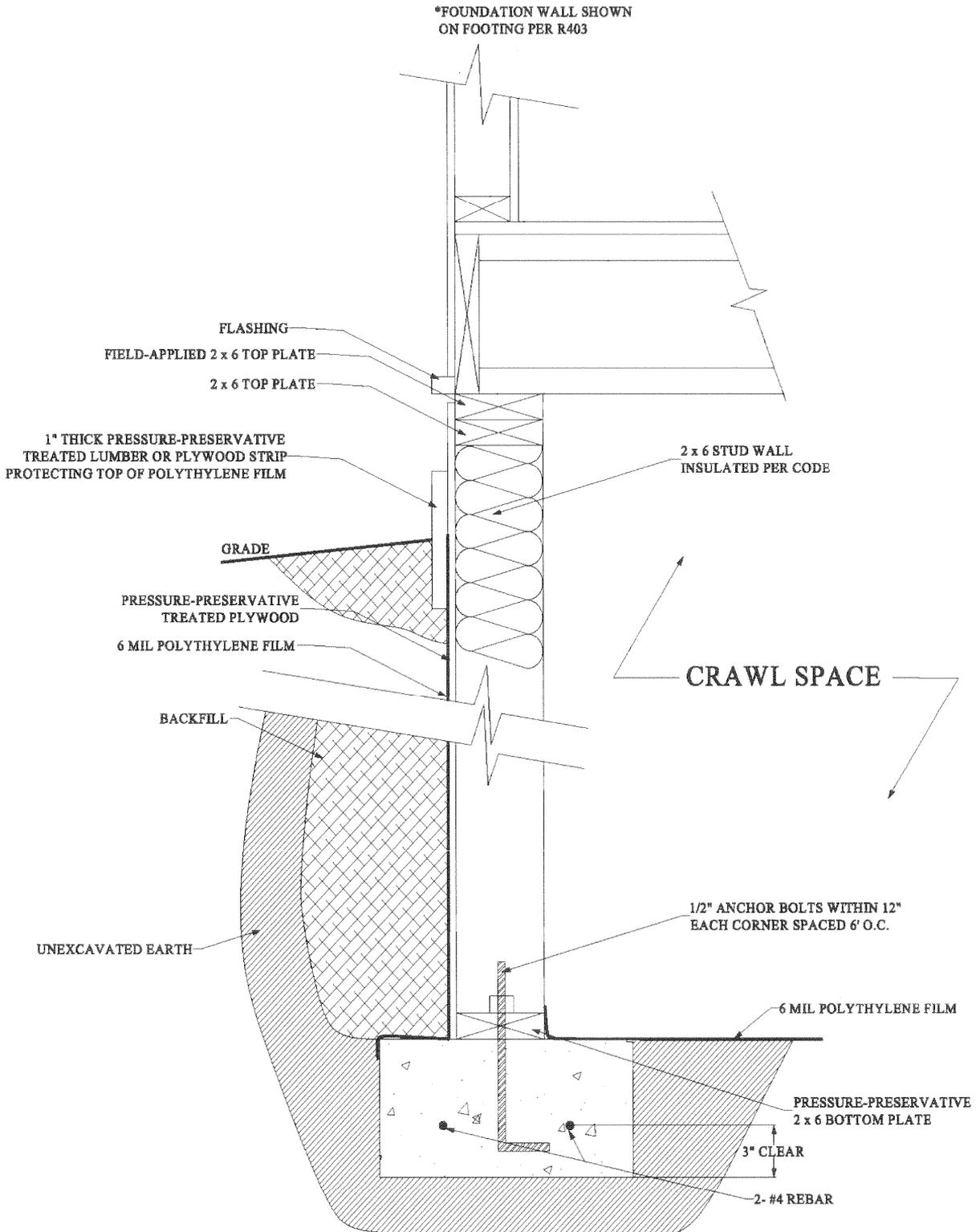
- *SINGLE STORY ONLY**
- *500 SQ. FT. MAX**
- *20' MIN. DIMENSION**
- *1- ROW BLOCK MAX**
- *12" MAX FILL**



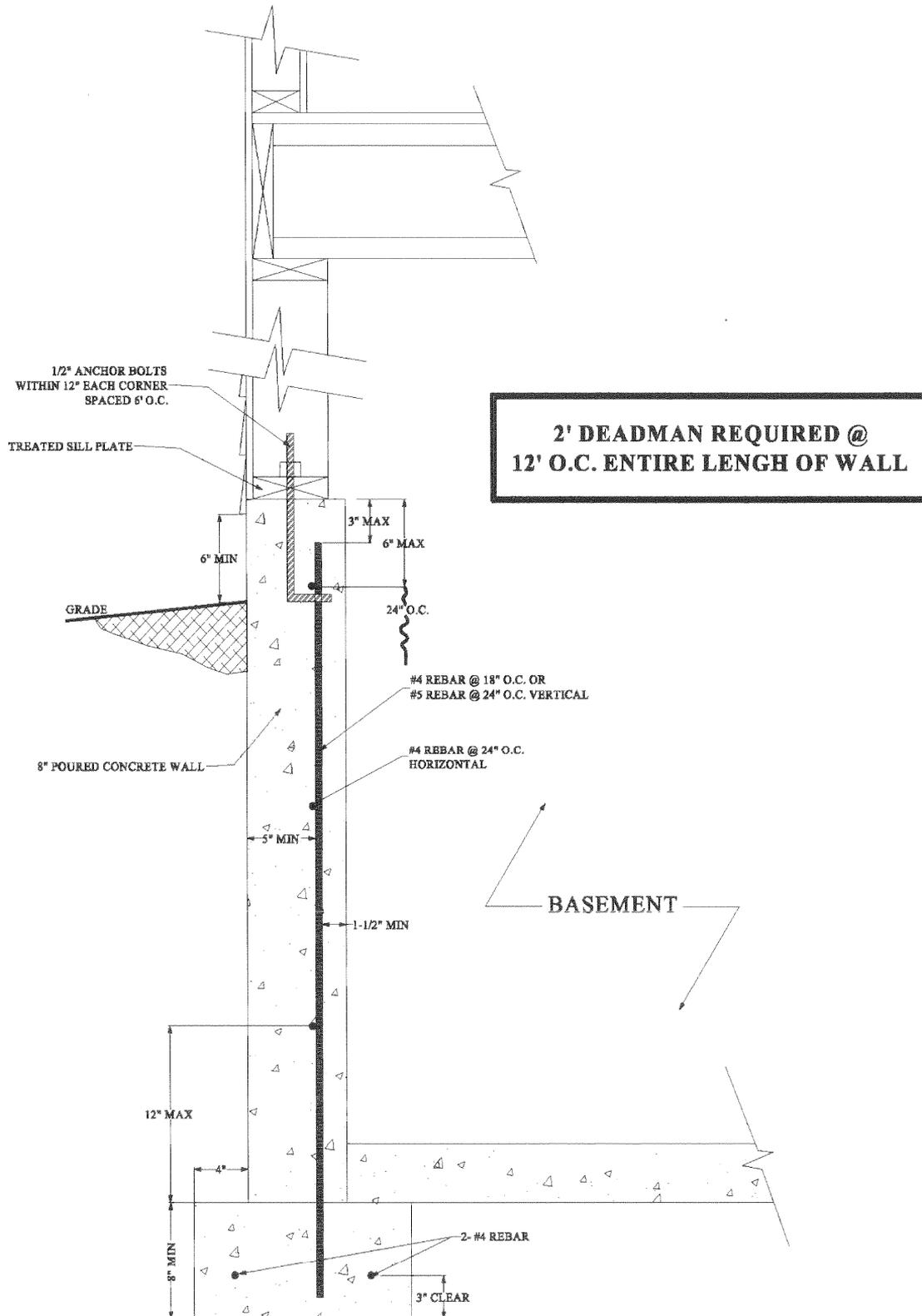
*FIGURE R403.1(2) AMENDED PERMANENT WOOD FOUNDATION BASEMENT WALL SECTION



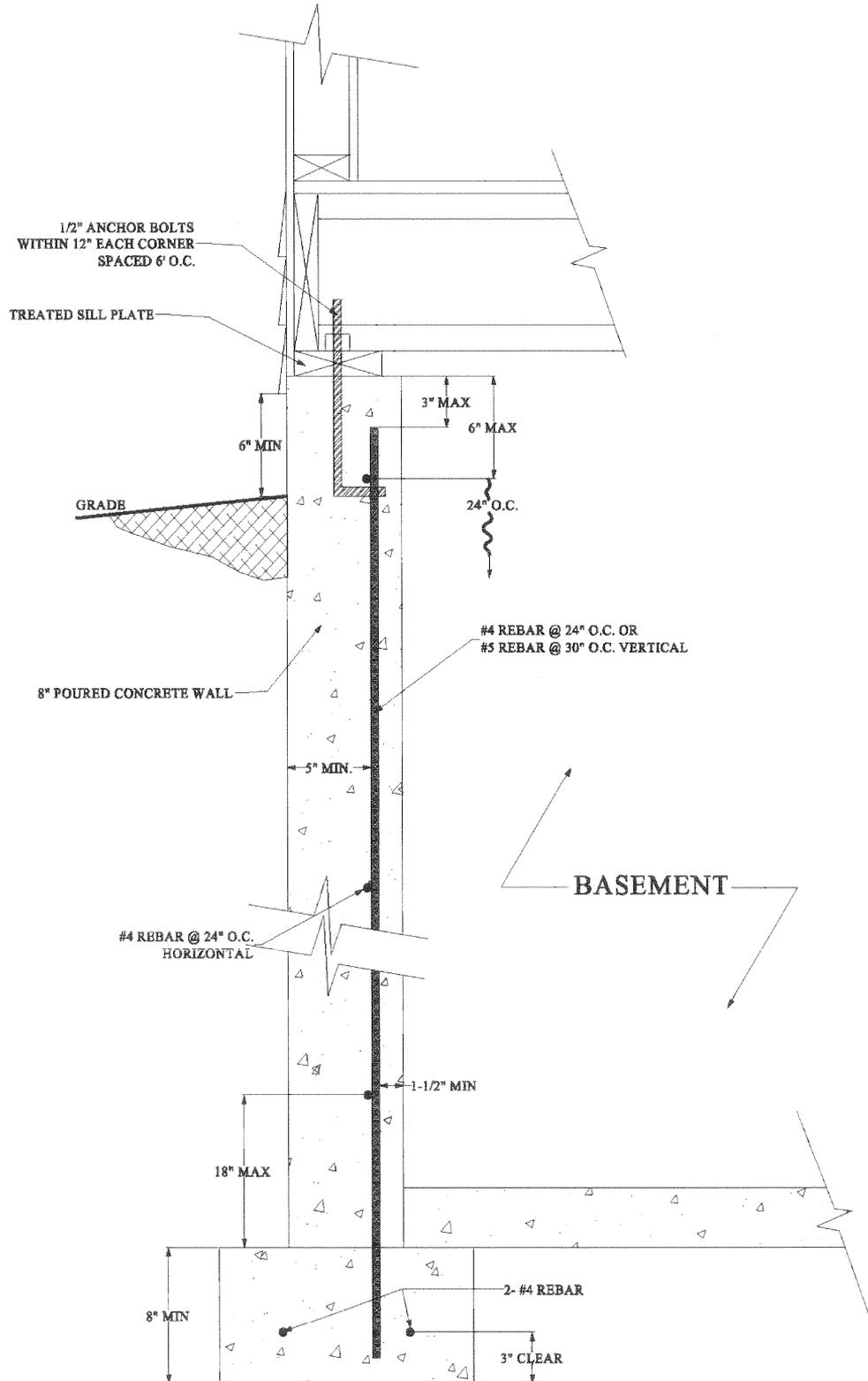
*FIGURE R403.1(3) AMENDED PERMANENT WOOD FOUNDATION CRAWL SPACE SECTION



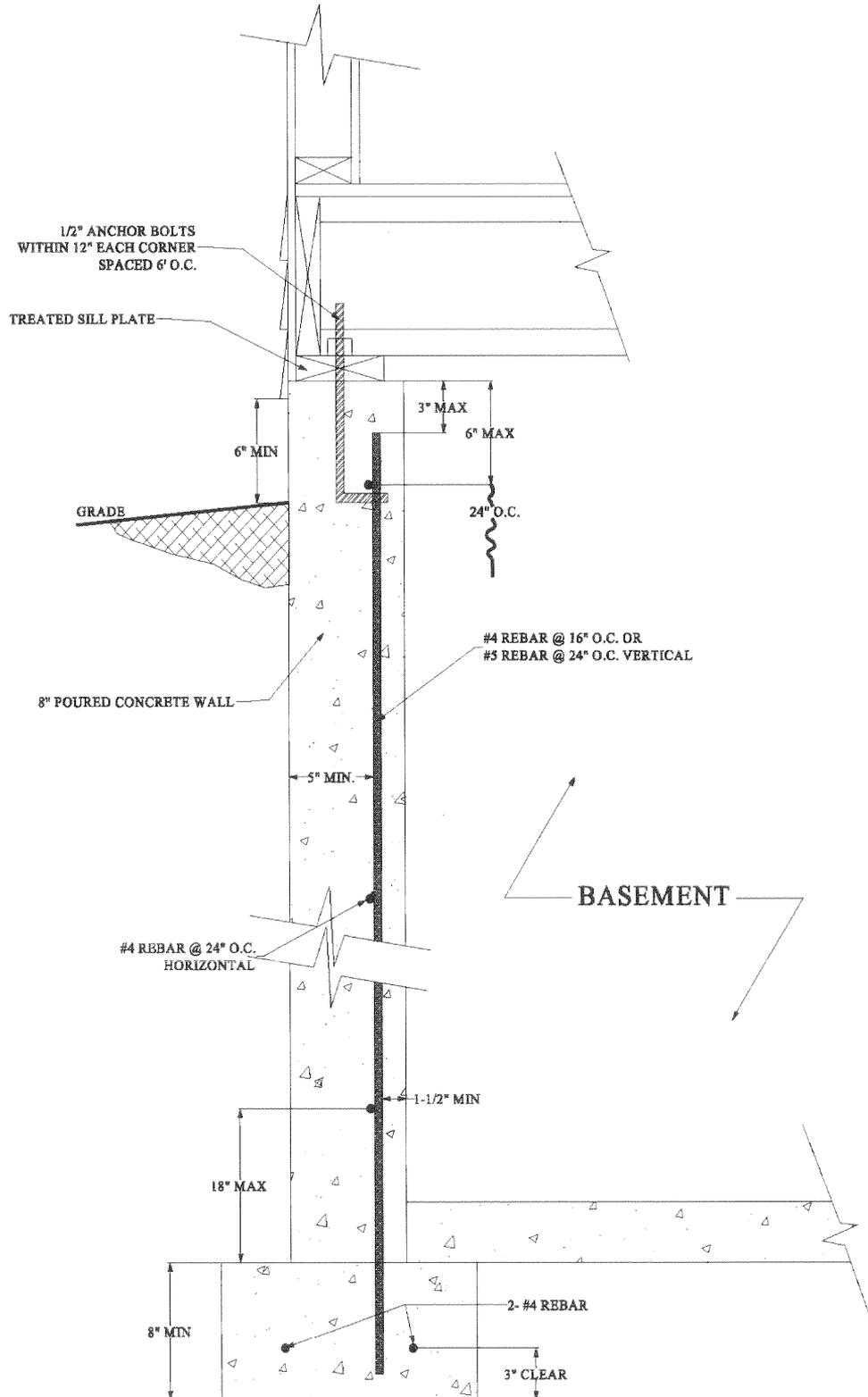
***FIGURE 404.1.1(5)**
8" PERMANENT POURED DAYLIGHT
BASEMENT WALL SECTION(4' MAX HEIGHT)



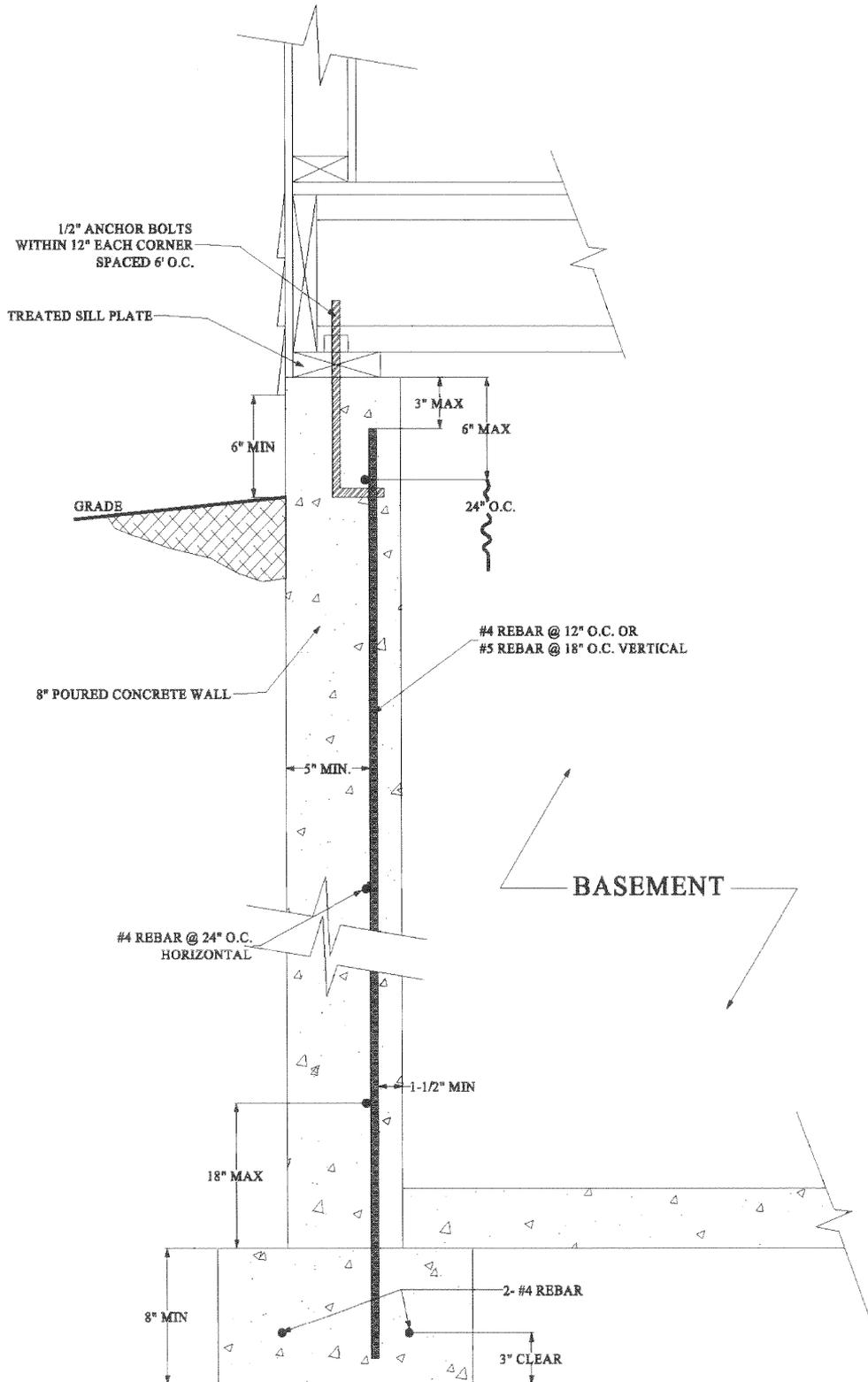
***FIGURE 404.1.1(5)**
8" PERMANENT POURED FOUNDATION
BASEMENT WALL SECTION(8' MAX HEIGHT)



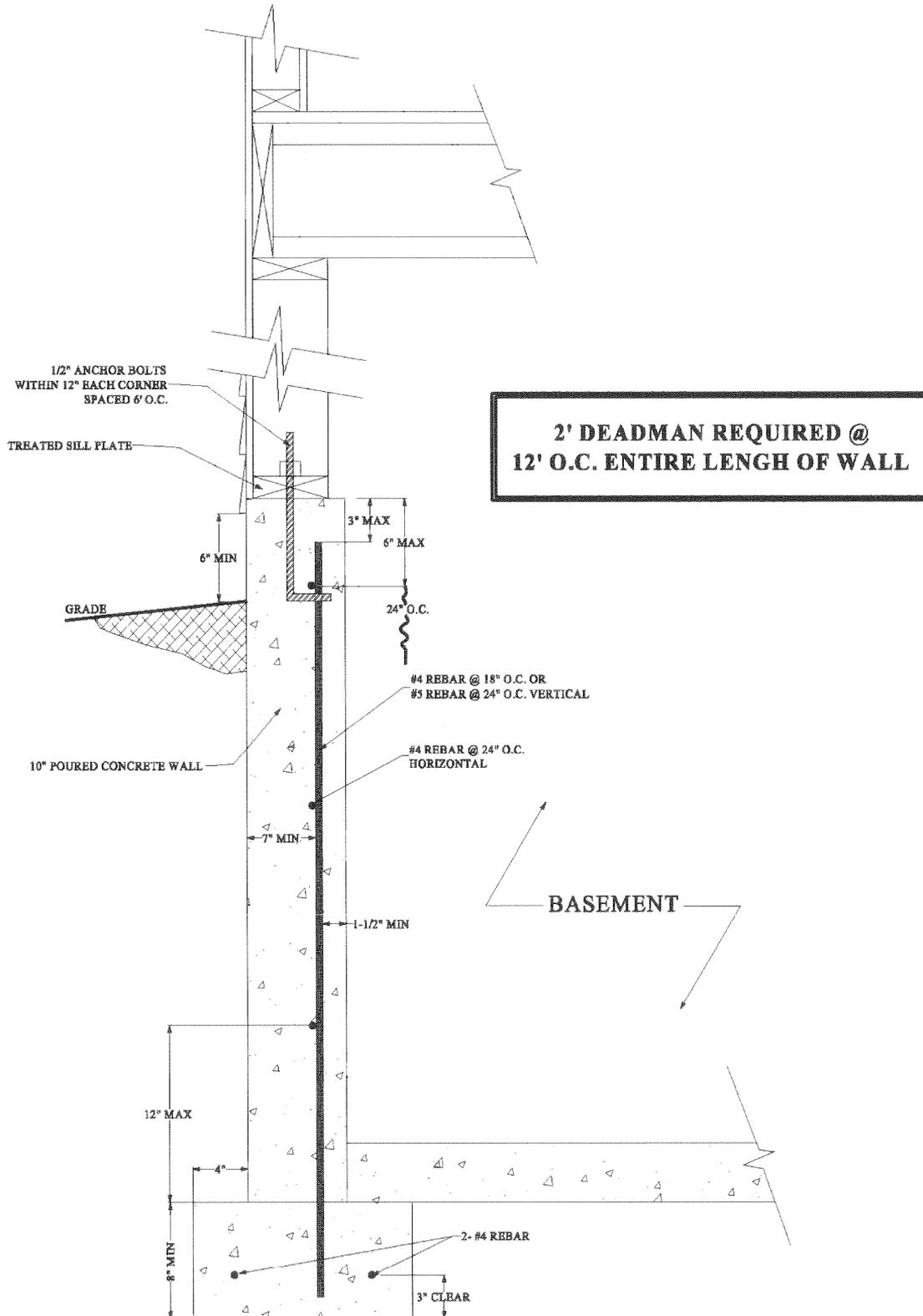
***FIGURE 404.1.1(5)**
8" PERMANENT POURED FOUNDATION
BASEMENT WALL SECTION(9' MAX HEIGHT)



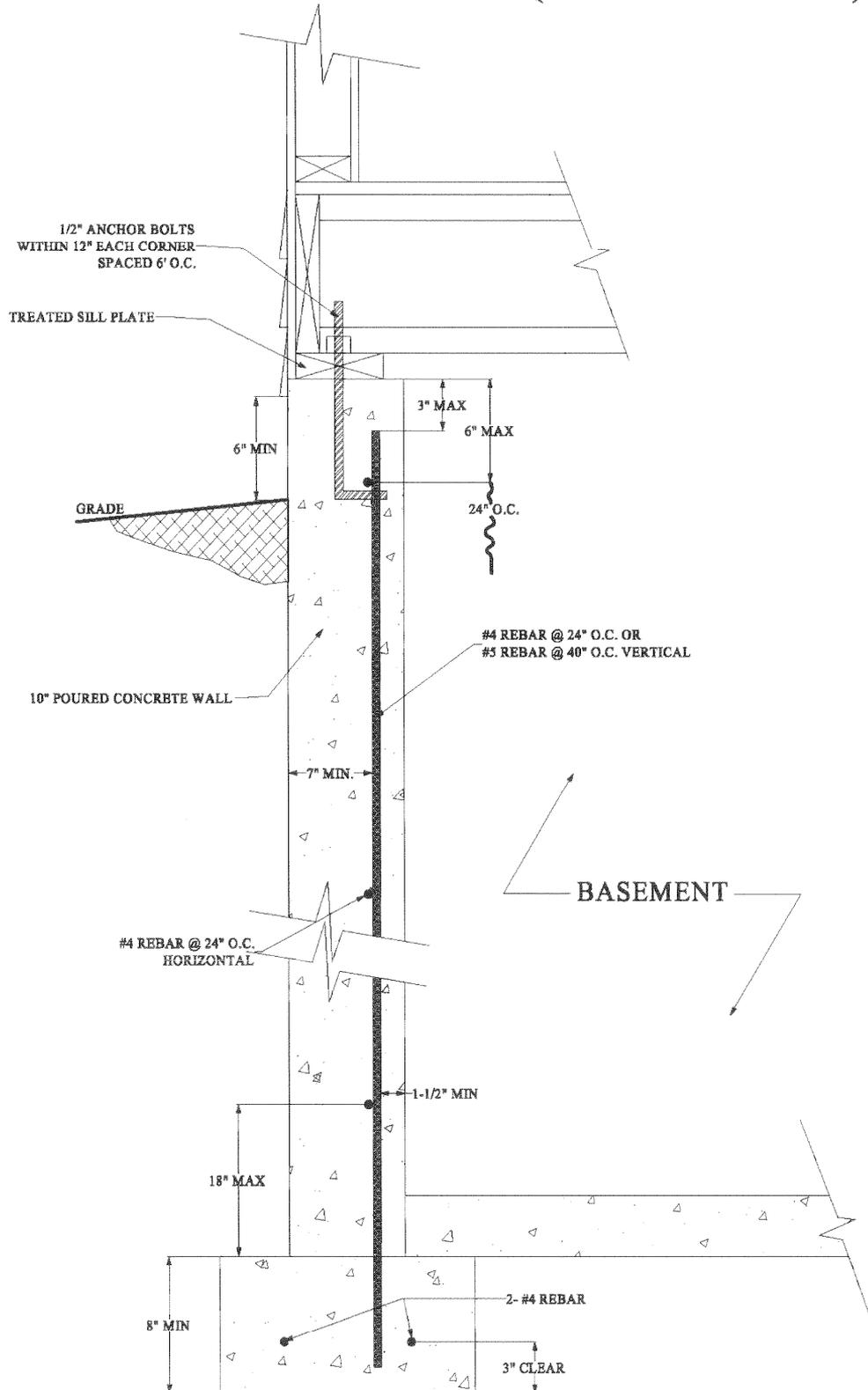
***FIGURE 404.1.1(5)**
8" PERMANENT POURED FOUNDATION
BASEMENT WALL SECTION(10' MAX HEIGHT)



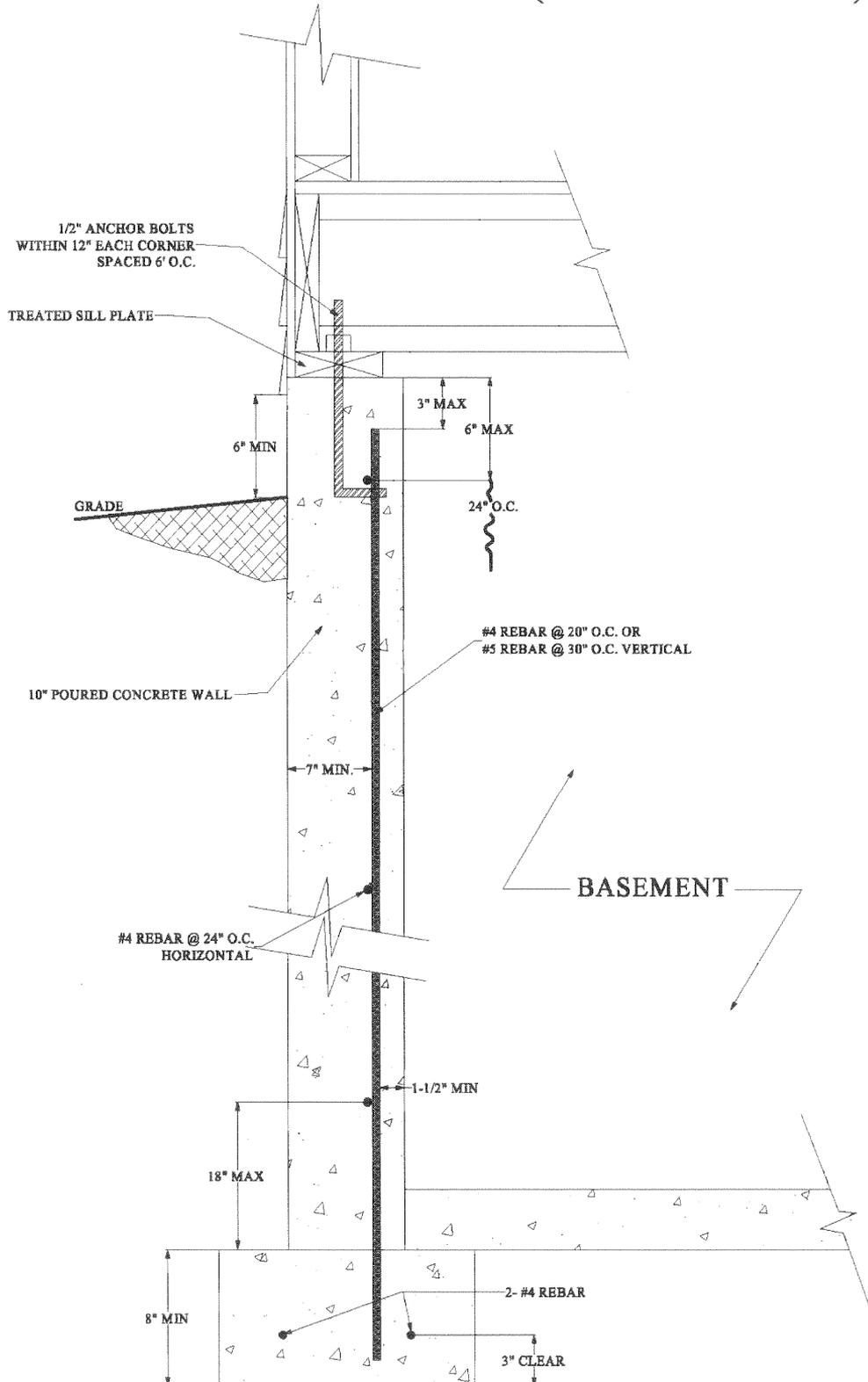
***FIGURE 404.1.1(5)**
10" PERMANENT POURED DAYLIGHT
BASEMENT WALL SECTION(4' MAX HEIGHT)



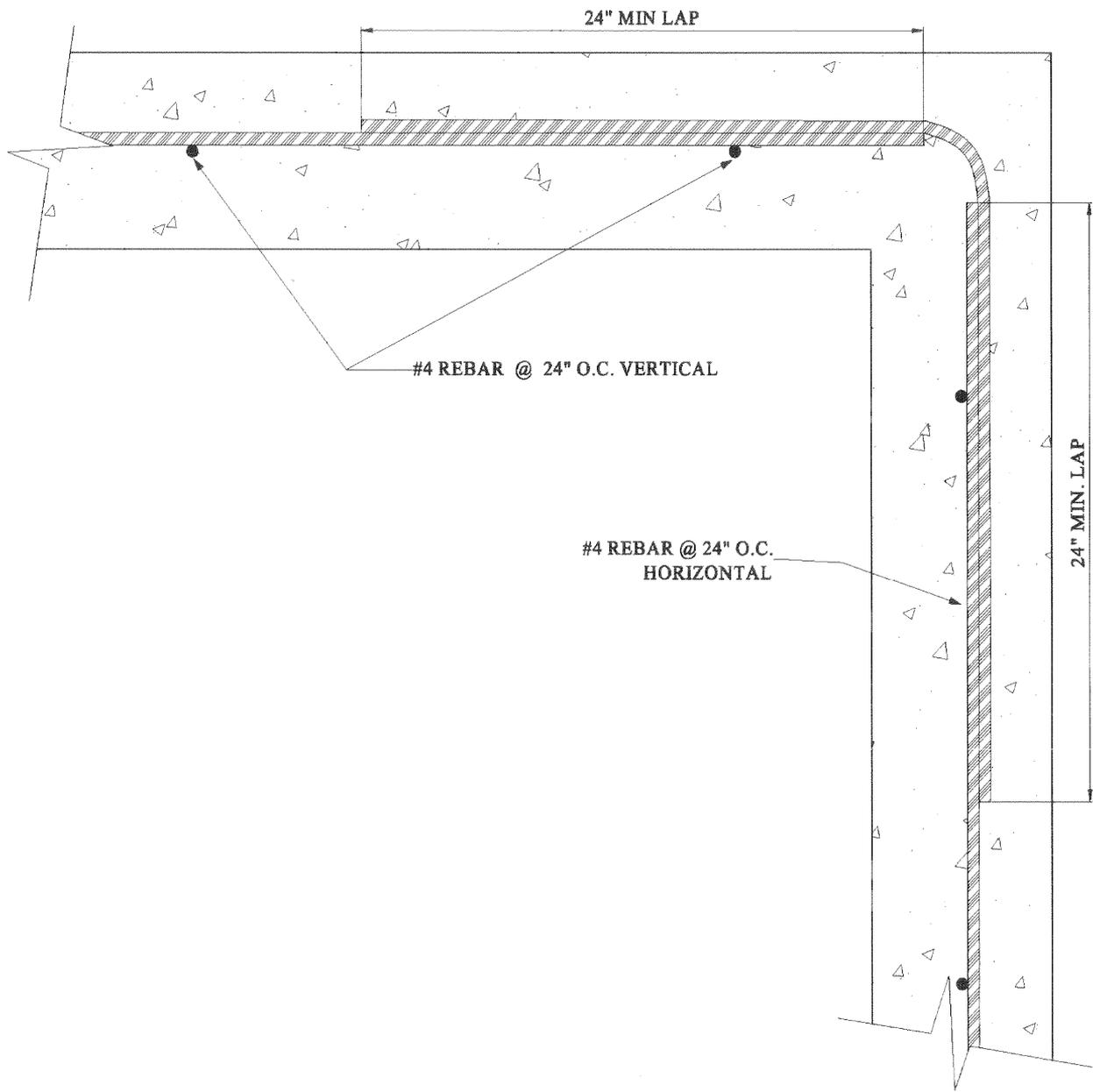
***FIGURE 404.1.1(5)**
10" PERMANENT POURED FOUNDATION
BASEMENT WALL SECTION(8' MAX HEIGHT)



***FIGURE 404.1.1(5)**
10" PERMANENT POURED FOUNDATION
BASEMENT WALL SECTION(9' MAX HEIGHT)



***FIGURE R404.1.1(6)**
MIN. CONCRETE FOUNDATION
WALL CORNER DETAIL
(RESIDENTIAL POURED WALL)



***FIGURE 404.1.1(7)**
PERMANENT MASONRY FOUNDATION
BASEMENT WALL SECTION

