

CITY OF GREELEY, COLORADO

ORDINANCE NO. ____, 2009

AN ORDINANCE REPEALING AND RE-ENACTING MUNICIPAL CODE CHAPTERS 16.04 (BUILDING CODE), 16.06 (RESIDENTIAL CODE), 16.08 (MECHANICAL CODE), 16.10 (PROPERTY MAINTENANCE CODE), 16.12 (EXISTING BUILDING CODE), 16.16 (ENERGY CONSERVATION CODE), 16.28 (PLUMBING CODE), 16.30 (FUEL GAS CODE), 16.36 (FIRE CODE)

BE IT ORDAINED BY THE CITY COUNCIL OF GREELEY, COLORADO:

Section 1. Greeley Municipal Code Chapters 16.04 (Building Code), 16.06 (Residential Code), 16.08 (Mechanical Code), 16.10 (Property Maintenance Code), 16.12 (Existing Building Code), 16.16 (Energy Conservation Code), 16.28 (Plumbing Code) 16.30 (Fuel Gas Code) and 16.36 (Fire Code), copies of which are attached hereto as Exhibit "A", are hereby repealed in their entirety.

Section 2. Chapter 16.04, Building Code, is hereby re-enacted as follows:

Chapter 16.04

Building Code

16.04.010 International Building Code adopted.

The International Building Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Building Code. The Building Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Building Code provides the standards for the erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area, and maintenance of buildings or structures.

16.04.020 Additions, Deletions, and Amendments to Building Code designated.

Sections 101.2 Exception (2), 105.2 (12), 109.2, 109.3, 109.4, 110.3.5, 110.7, 113.1, 113.2, 114.1, 114.4, 406.1.4 (1), 419.1, 419.1.1 (5), 419.9, 1006.3, 1008.1.5 Exception (1.1), 1503.7, 1507.2.9.4, 1503.2.9.5, 1510.3 (4), 2701.1 and 2902.3.2 of the Building Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.04.030 through 16.04.250.

16.04.030 101.2 Exception (2) added; Scope.

Section 101.2 Exception (2) of the Building Code, adopted at Section 16.04.010, is added to read as follows:

2. Existing buildings undergoing repair, alterations or additions and change of occupancy shall be permitted to comply with the *International Existing Building Code*, as adopted by the City of Greeley.

16.04.040 Section 105.2 (12) amended; Work Exempt From Permit

Section 105.2 (12) of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

12. Window awnings in Group R-3 and U occupancies, supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.

16.04.050 Section 109.2 amended; Schedule of permit fees.

Section 109.2 of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

109.2 Schedule of permit fees. On buildings, structures, electrical, gas, mechanical and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid as required, in accordance with the fee schedule below:

Building Permit Fees	
<u>Total Valuation</u>	<u>Fee</u>
\$1 to \$500	\$23.50
\$501 to \$2,000	\$23.50 for the first \$500.00, plus \$3.05 for each additional \$100.00 or fraction thereof, to and including \$2,000.00
\$2,001 to \$25,000	\$69.25 for the first \$2,000.00, plus \$14.00 for each additional \$1,000.00 or fraction thereof, to and including \$25,000.00
\$25,001 to \$50,000	\$391.75 for the first \$25,000.00, plus \$10.10 for each additional \$1,000.00 or fraction thereof, to and including \$50,000.00
\$50,001 to \$100,000	\$643.75 for the first \$50,000.00, plus \$7.00 for each additional \$1,000.00 or fraction thereof, to and including \$100,000.00
\$100,001 to \$500,000	\$993.75 for the first \$100,000.00, plus \$5.60 for each additional \$1,000.00 or fraction thereof, to and including \$500,000.00
\$500,001 to \$1,000,000	\$3,233.75 for the first \$500,000.00, plus \$4.75 for each additional \$1,000.00 or fraction thereof, to and including \$1,000,000.00
\$1,000,001 and up	\$5,608.75 for the first \$1,000,000.00, plus \$3.65 for each additional \$1,000,000.00 or fraction thereof
<i>Other Inspections and Fees:</i>	
1. Inspections outside of normal business hours (minimum charge, two hours)	\$47.00 per hour ¹
2. Re-inspection fees assessed under provisions of Section 109.8	\$47.00 per hour ¹
3. Inspections for which no fee is specifically indicated (minimum charge, one-half hour)	\$47.00 per hour ¹
4. Additional plan review required by changes, additions or revisions to plans (minimum charge, one-half hour)	\$47.00 per hour ¹
5. For use of outside consultants for plan checking and inspections, or both	Actual costs ²

6. Plan Review Fees. When a plan or other data are required to be submitted by Section 106, a plan review fee shall be paid at the time of submitting plans and specifications for review. Said plan review fee shall be 35 percent of the building permit as shown in the fee table above. The plan review fees specific to this section are separate fees from the permit fees and are in addition to the permit fees.³

¹ Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

² Actual costs include administrative and overhead costs.

³ Plan review fee shall increase to 45 percent effective January 1, 2011, and to 55 percent January 1, 2012.

16.04.060 Section 109.3 amended; Building Permit Valuations

Section 109.3 of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

109.3 Building permit valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of work, including materials and labor, for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. If, in the opinion of the building official, the value listed on the application is underestimated on the application, the building official may use the greater of either the application value, or the square foot value from the most recent *Building Valuation Data Table*, published in the Building Safety Journal, by the *International Code Council*, using a regional cost adjustment of 99%. Final building permit valuation shall be set by the building official.

16.04.070 Section 109.4 amended; Work commencing before permit issuance.

Section 109.4 of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

109.4 Work commencing before permit issuance. Any person who commences work on a building or structure governed by this code before obtaining the necessary permits shall be subject to a fee 200 percent of the usual permit fee.

16.04.080 Section 110.3.5, Exception deleted; Lath and gypsum board inspection.

Section 110.3.5, Exception, of the Building Code, adopted at Section 16.04.010 is deleted in its entirety.

16.04.090 Section 110.7 added; Reinspections.

Section 110.7 of the Building Code, adopted at Section 16.04.010, is added to read as follows:

110.7 Reinspections. A reinspection fee may be assessed for each inspection or reinspection when such portion of work for which inspection is called is not complete or when corrections called for are not made.

This section is not to be interpreted as requiring reinspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the approved plans are not readily available to the inspector, for failure to

provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the building official.

To obtain a reinspection, the applicant shall pay the reinspection fee in accordance with the Building Permit Fee Schedule as set forth by the jurisdiction in Section 16.040.50.

In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.

16.04.100 Section 113.1 amended; Board of Appeals; General.

Section 113.1 of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

113.1 General. In order to provide for reasonable interpretation of the provisions of this code, to mitigate specific provisions of this code which provide practical difficulties in their application or enforcement, to determine the suitability of alternate materials and types of construction, and to hear appeals provided for hereunder, there is hereby established a Construction Trades Advisory and Appeals Board consisting of eleven members who are qualified by experience and training to pass upon matters pertaining to construction and who are not employees of the City of Greeley.

A minimum of three persons from each of the building, plumbing/mechanical and electrical trades shall be appointed to the board. The three trade-specific groups of three members each shall have the right of final action in any matters pertaining to their specific trades. The appointing authority shall also appoint two at-large members who may be called by the board chair to hear appeals during the absence or disqualification of another member. The board shall select one of its members to serve as chair.

The Chief Building Official shall be an ex officio member of and shall act as secretary to said board. The senior Electrical Inspector, senior Plumbing/Mechanical Inspector, and the Fire Chief or his or her designee shall be ex officio members from city administration.

16.04.110 Section 113.2 amended; Board of Appeals, limitations on authority.

Section 113.2 of the Building Code, adopted at Section 16.04.010, is amended to read as follows:

113.2 Limitations on Authority. The Board shall render all decisions and findings in writing to the appellant. Copies of all rules of procedure adopted by the Board shall be accessible to the public.

The Construction Trades Advisory and Appeals Board shall have the authority to:

1. Interpret the administrative provisions of any of the adopted construction trade codes;
2. Review code enforcement policies related to construction, and make recommendations concerning such policies to City Council;
3. Review proposed changes in the construction trade codes used by the City and make recommendations concerning such proposals to the Council;
4. Review legislative proposals which mandate changes in construction trade codes or code enforcement procedures and make recommendations concerning such proposals to the Council; and

5. Act in an advisory capacity to the Council on matters concerning building construction and/or building inspection.

The Board, however, cannot by itself waive any of the requirements of this code.

16.04.120 Section 114.1 amended; Unlawful acts.

Section 114.1 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

114.1 Unlawful acts. It is unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy or maintain any building, structure or equipment regulated by this code in the city, or cause the same to be done, in conflict with or in violation of any of the provisions of this code.

16.04.130 Section 114.4 amended; Violation penalties.

Section 114.4 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

114.4 Violation penalties. Any person violating any of the provisions of the code is guilty of a separate offense for each and every day or portion thereof during which any violation of any of the provisions of this code is committed, continued or permitted, and upon conviction of any such violation, such person shall be subject to punishment as provided in Chapter 1.33 of the Greeley Municipal Code.

16.04.140 Section 406.1.4 (1) amended; Separation.

Section 406.1.4 (1) of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 5/8- inch (15.9 mm) Type X gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, or the ceiling is providing the separation, the structure supporting the separation shall also be protected by not less than 5/8-inch (15.9 mm) gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 1 3/8 inches (34.9 mm) thick, or doors in compliance with Section 715.4.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Doors shall be self-closing and self-latching.

16.04.150 Section 419.1 amended; General.

Section 419.1 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

419.1 General. A work/live unit is a dwelling unit or a sleeping unit in which a significant portion of the space includes a nonresidential use that is operated by the tenant and shall comply with Sections 419.1 through 419.9

16.04.160 Section 419.1.1 (5) added; Limitations.

Section 419.1.1 (5) of the Building Code, adopted at Section 16.04.010 is added to read as follows:

5. The nonresidential area is limited to a maximum occupant load of 49 as determined by Table 1004.1.1

16.04.170 Section 419.9 added; Plumbing Facilities.

Section 419.9 of the Building Code, adopted at Section 16.04.010 is added to read as follows:

419.9 Plumbing Facilities. The work area of the live/work unit shall be provided with minimum plumbing facilities as specified by Chapter 29.

16.04.180 Section 1006.3 amended; Illumination Emergency Power.

Section 1006.3 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

1006.3 Illumination Emergency Power. The power supply for means of egress illumination shall normally be provided by the premise's electrical supply.

In the event of power supply failure, an emergency electrical system shall automatically illuminate the following areas:

1. Exit access corridors, passageways and aisles in rooms and spaces which require two or more means of egress.
2. Exit access corridors and exit stairways located in buildings required to have two or more exits.
3. Exterior egress components at other than the level of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.
4. Interior exit discharge elements, as permitted in Section 1023.1, in buildings required to have two or more exits.
5. The portion of the exterior exit discharge immediately adjacent to exit discharge doorways in buildings required to have two or more exits.
6. Restrooms and toilet rooms accessible to the public.

The emergency power system shall provide power for a duration of not less than ninety (90) minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with the adopted National Electrical Code.

16.04.190 Section 1008.1.5 Exception 1.1 amended; Floor elevation.

Section 1008.1.5 Exception 1.1 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

1.1 A door is permitted to open at the top step of an interior flight of stairs, provided the door does not swing over the top step. A door is permitted to open at the top flight of an exterior flight of stairs provided the door is not part of the required means of egress, the door does not swing over the top step, and the door is sufficiently glazed so as to afford a view of the steps from the interior of the structure.

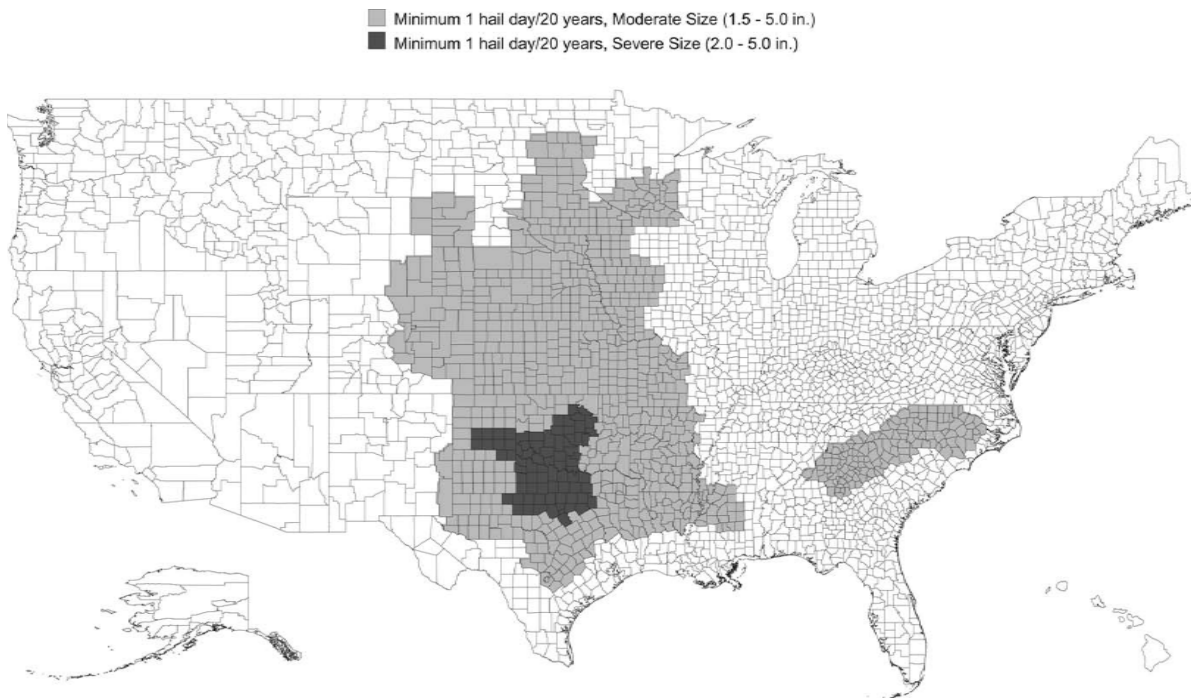
16.04.200 Section 1503.7 added; Hail Exposure.

Section 1503.7 of the Building Code, adopted at Section 16.04.010 is added to read as follows:

1503.7 Hail Exposure. Hail exposure as specified in Sections 1503.7.1 and 1503.7.2, shall be determined using Figure 1503.7

1503.7.1 Moderate Hail Exposure. One or more hail days with hail diameters larger than 1.5 inches (38 mm) in a 20-year period.

1503.7.2 Severe Hail Exposure. One or more hail days with hail diameters larger than 2.0 inches (51 mm) in a 20-year period.



**FIGURE 1503.7
HAIL EXPOSURE MAP**

16.04.210 Section 1507.2.9.4 added; Sidewall Flashing.

Section 1507.2.9.4 of the Building Code, adopted at Section 16.04.010 is added to read as follows:

1507.2.9.4 Sidewall flashing. Flashing against a vertical sidewall shall be by the step-flashing method. The flashing shall be a minimum of 4 inches (102 mm) high and 4 inches (102 mm) wide. At the end of the vertical sidewall the step flashing shall be turned out in a manner that directs water away from the wall and onto the roof and/or gutter.

16.04.220 Section 1507.2.9.5 added; Other Flashing.

Section 1507.2.9.5 of the Building Code, adopted at Section 16.04.010 is added to read as follows:

1507.2.9.5 Other flashing. Flashing against a vertical front wall, as well as soil stack, vent pipe and chimney flashing, shall be applied according to the asphalt shingle manufacturer's printed instructions.

16.04.230 Section 1510.3 (4) added; Recovering versus replacement.

Section 1510.3 (4) of the Building Code, adopted at Section 16.04.010 is added to read as follows:

1510.3 (4) For asphalt shingles, when the building is located in an area subject to moderate or severe hail exposure according to Figure 1503.7.

16.04.240 Section 2701.1 amended; Scope.

Section 2701.1 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

2701.1 Scope. This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of the adopted National Electrical Code. Other references within this code regarding electrical shall be considered amended to read "the adopted National Electrical Code."

16.04.250 Section 2902.3.2 amended; Location of toilet facilities in occupancies other than covered mall buildings.

Section 2902.3.2 of the Building Code, adopted at Section 16.04.010 is amended to read as follows:

[P] 2902.3.2 Location of toilet facilities in occupancies other than covered malls. In occupancies other than covered malls, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

1. The location and maximum travel distances to required employee facilities in factory and industrial occupancies are permitted to exceed that required by this section, provided that the location and maximum travel distance are approved.

2. Facilities that are required for employees in storage structures or kiosks, and that are located in adjacent structures under the same ownership, lease or control, shall be a maximum travel distance of 500 feet (152 m) from the employees work area.

Section 3. Chapter 16.06, Residential Code, is hereby re-enacted as follows:

Chapter 16.06

Residential Code

16.06.010 International Residential Code.

The International Residential Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Residential Code. The Residential Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Residential Code provides the standards for the design, erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area, and maintenance of one and two-family dwellings and townhouses.

16.06.020 Additions, Deletions, and Amendments to Residential Code designated.

Sections R105.2 (1), R108.2, R108.6, R109.5, R112, R113.1, R113.4, R302.3, R302.5.1, Table R302.6, R302.7, R302.11(3), R310.1, R310.5, R311.3.2, R315.2, R324, R405.2.3, R405.2.3.1, R905.2.8.5, M1801.1, G2415.7, G2415.10, G2417.4.1, G2417.4.2, G2425.8 (7), G2445, P2603.6, P2705.1 (5), P2708.1, P2708.1 (2), P2718.1, Table 3005.4.1, P3005.4.2, Table 3005.4.2, 3007.6, Table P3105.1, P3107.3, Table P3107.3, P3108.3, Table P3108.3, P3109.4, Table P3109.4, P3110.1, P3114.3, Table P3201.7, and Part VIII of the Residential Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.06.030 through 16.06.460.

16.06.030 Section R105.2 (1) amended; Work exempt from permit.

Section R105.2 (1) of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11.15 m²).

16.06.040 Section R108.2 amended; Schedule of permit fees.

Section R108.2 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R108.2 Schedule of permit fees. On buildings, structures, electrical, gas, mechanical and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid in accordance with the fees established in Section 16.04.050 of the Greeley Municipal Code.

16.06.050 Section R108.6 amended; Work commencing before permit issuance.

Section R108.6 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R108.6 Work commencing before permit issuance. Any person who commences work on a building or structure governed by this code before obtaining the necessary permits shall be subject to 200 percent of the usual permit fee.

16.06.060 Section R109.5 added; Reinspections.

Section R109.5 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R109.5 Reinspections. A reinspection fee may be assessed for each inspection or reinspection when such portion of work for which inspection is called is not complete or when corrections called for are not made.

This section is not to be interpreted as requiring reinspection fees the first time a job is rejected for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection.

Reinspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the approved plans are not readily available to the inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the building official.

To obtain a reinspection, the applicant shall pay the reinspection fee in accordance with the Building Permit Fee Schedule as set forth by the jurisdiction in Section 16.040.50.

In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the required fees have been paid.

16.06.070 Section R112 amended; Board of Appeals.

Section R112 of the Residential Code, adopted at Section 16.06.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110.

16.04.080 Section R113.1 amended; Unlawful acts.

Section R113.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R113.1 Unlawful acts. It is unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy or maintain any building, structure or equipment regulated by this code in the city, or cause the same to be done, in conflict with or in violation of any of the provisions of this code.

16.04.090 Section R113.4 amended; Violation penalties.

Section R113.4 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R113.4 Violation penalties. Any person violating any of the provisions of the code is guilty of a separate offense for each and every day or portion thereof during which any violation of any of the provisions of this code is committed, continued or permitted, and upon conviction of any such violation, such person shall be subject to punishment as provided in Chapter 1.33 of the Greeley Municipal Code.

16.04.100 Section R202 amended; Definitions.

Section R202 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

ATTIC, HABITABLE. A finished area, not considered a story, complying with all the following requirements:

1. The occupiable floor area is at least 70 square feet (17m²) in accordance with Section R304.
2. The occupiable floor area has a ceiling height in accordance with Section R305, and;
3. The occupiable floor space is enclosed by the roof assembly above, knee walls (if applicable) on the sides and the floor-ceiling below.

16.06.110 Section R302.3 Exception (2) deleted; Two-Family Dwellings.

Section R302.3 Exception (2) of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.120 Section R302.5.1 amended; Opening protection.

Section R302.5.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors. Doors shall be self-closing and self-latching.

16.06.130 Table R302.6, amended; Separation required.

Table R302.6 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

**TABLE R302.6
DWELLING/GARAGE SEPARATION**

SEPARATION	MATERIAL
From the residence and attics	Not less than 5/8-inch Type X gypsum board or equivalent applied to the garage side
From all habitable rooms above garage	Not less than 5/8-inch Type X gypsum board or equivalent
Structure(s) supporting floor/ceiling assemblies used for separation required by this section	Not less than 5/8-inch Type X gypsum board or equivalent
Garages less than 3 feet from a dwelling unit on same lot	Not less than 5/8-inch Type X gypsum board or equivalent applied to the interior side of exterior walls that are within this area

16.06.140 Section R302.7 amended; Under stair protection.

Section R302.7 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R302.7 Under stair protection. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 5/8-inch Type X (15.9 mm) gypsum board.

16.06.150 Section R302.11 (3) amended; Fireblocking.

Section R302.11 (3) of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

3. In concealed spaces between stair stringers at the top and bottom of the run, and between studs along, and in line with the run of stairs. Enclosed spaces under stairs shall comply with Section R302.7.

16.06.160 Section R310.1 amended; Emergency escape and rescue required.

Section R310.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R310.1 Emergency escape and rescue required. Basements, habitable attics and every sleeping room shall have at least one operable emergency and rescue opening. Where basements contain one or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room. Unfinished basements shall have at least one emergency escape and rescue opening provided for each 500 square feet of basement area for a maximum of 1500 square feet of basement area. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches (1118mm) above the floor. Where a door opening having a threshold below the adjacent ground elevation serves as an emergency escape and rescue opening and is provided with a bulkhead enclosure, the bulkhead enclosure shall comply with Section R310.3. The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2. Emergency escape and rescue openings shall open directly into a public way or to a yard or court that opens to a public way.

16.06.170 Section R310.5 amended; Emergency escape windows under decks and porches.

Section R310.5 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R310.5 Emergency escape windows under decks, porches and cantilevers. Emergency escape windows are allowed to be installed under decks, porches and cantilevers provided the location allows the emergency escape window to be fully opened and provides a path not less than 36 inches (914 mm) in height to a yard or court.

16.06.180 Section R311.3.2 Exception amended.

Section R311.3.2 Exception 1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R311.3.2 Exception. A landing is not required where a stairway is located on the exterior side of a door, provided the door does not swing over the stairway, and is sufficiently glazed so as to afford a view of the stairway from the interior of the structure.

16.06.190 Section R315.2 Exception added; Carbon Monoxide Alarms.

Section R315.2 Exception of the Residential Code, adopted at Section 16.06.010 is added in its entirety:

Exception: Work involving the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck, are exempt from the requirements of this section.

16.06.200 Section R325 added; Electric Fences.

Section R325 of the Residential Code, adopted at Section 16.06.010 is added in its entirety:

**SECTION R324
ELECTRIC FENCES**

R324.1 Definition. For the purposes of this Section, any fence using, carrying or transmitting an electrical current for any purpose is considered an electric fence.

R324.2 Permit Required. In all cases, electric fences will require approval, and a building permit. All electrical components must be listed and labeled, by a nationally recognized independent testing agency, and installations must be made per the manufacturer's specifications, and the listing requirements.

R324.3 Signs. Permanent signs stating "DANGER, ELECTRIC FENCE" must be installed on, or around the fence, as deemed necessary by the Building Inspection Division.

R324.4 Location. All electric fences must be installed inside a non-electric fence, placed so as to prevent accidental contact from the outside. This subsection does not apply to approved agricultural uses.

R324.5 Existing Fences. Any existing electric fence identified after the adoption of this code that does not conform to these requirements, shall have 60 days from the date of identification of the fence to come into compliance with these requirements, or remove the electric fence.

16.06.210 Section R405.2.3 amended; Sump Pit.

Section R405.2.3 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R405.2.3 Sump Pit. Where it is not possible to convey the drainage by gravity, subsoil drains shall discharge to an accessible sump pit. A sump pit shall be at least eighteen (18) inches (457 mm) in diameter, twenty-four (24) inches (610 mm) in depth, and provided with a fitted cover including rough-in discharge piping. The sump pump, if provided, shall have an adequate capacity to discharge all water coming into the sump as it accumulates to the required discharge point, and the capacity of the pump shall not be less than fifteen (15) gpm (1.0 L/s).

The discharge piping for the sump pump shall include the following:

- (1) Be one and one-half (1½) inches in diameter;
- (2) Terminate within five (5) feet of the sump pit;
- (3) Extend a minimum of twelve (12) inches below the floor joists above;
- (4) Terminate at the exterior of the structure with a removable cap.

16.06.220 Section R405.2.3.1 amended; Electrical.

Section R405.2.3.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

R405.2.3.1 Electrical. A 125-volt, 15-ampere, GFCI-protected, electrical receptacle outlet shall be installed within five (5) feet of the sump pit location. The branch circuit feeding this outlet shall be a dedicated circuit.

16.06.230 Section R905.2.8.5 added; Drip edge.

Section R905.2.8.5 of the Residential Code, adopted at Section 16.06.010 is added to read as follows:

R905.2.8.5 Drip edge. Provide drip edge at eaves and gables of shingle roofs. Overlap to be a minimum of 2 inches (51 mm). Eave drip edges shall extend 1/4 inch (6.4 mm) below sheathing and extend back on the roof a minimum of 2 inches (51 mm). Drip edge shall be mechanically fastened a minimum 12 inches (305 mm) o.c.

16.06.240 Section M1801.1 amended; Venting required.

Section M1801.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

M1801.1 Venting required. Fuel-burning appliances shall be vented to the outside in accordance with their listing and label and manufacturer's installation instructions. Venting systems shall consist of approved chimneys or vents, or venting assemblies that are integral parts of labeled appliances. Gas-fired appliances shall be vented in accordance with Chapter 24.

16.06.250 Section G2415.7 amended; Above-ground piping outdoors.

Section G2415.7 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

G2415.7 Above-ground piping outdoors. All piping installed outdoors shall be elevated not less than 6 inches (152 mm) above ground and where installed across roof surfaces, shall be elevated not less than 6 inches (152 mm) above the roof surface. Piping installed above ground, outdoors, and installed across the surface of roofs shall be securely supported and located where it will be protected from physical damage. Where passing through an outside wall, the piping shall also be protected against corrosion by coating or wrapping with an inert material. Where piping is encased in a protective pipe sleeve, the annular space between the piping and the sleeve shall be sealed.

16.06.260 Section G2415.10 amended; Minimum burial depth.

Section G2415.10 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

G2415.10 Minimum burial depth. Metallic underground piping systems shall be installed a minimum depth of 18 inches (458 mm) below grade and plastic piping systems shall be 24 inches (710 mm), except as provided for in Section G2415.10.1.

16.06.270 Section G2417.4.1 amended; Test pressure.

Section G2417.4.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

G2417.4.1 Test pressure. The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, but not less than 10 psig (20 kPa gauge), for a minimum of 15 minutes, irrespective of design pressure. For medium pressure gas and welded gas lines, the minimum test pressure shall be 60 psig for a minimum of 30 minutes. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

16.06.280 Section G2417.4.2 deleted; Test duration.

Section G2417.4.2 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.290 Section G2425.8 (7) deleted; Equipment not required to be vented.

Section G2425.8 (7) of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.300 Section G2445 deleted; Unvented Room Heaters.

Section G2445 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.310 Section P2603.6 amended; Freezing.

Section P2603.6 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P2603.6 Freezing. Water, soil or waste pipe shall not be installed outside of a building, in exterior walls, in attics or crawl spaces, or in any other place subjected to freezing temperature unless adequate provision is made to protect it from freezing by insulation or heat or both. Water service pipe shall be installed not less than 12 inches (305 mm) deep and not less than 12 inches (152mm) below the frost line.

16.06.320 Section P2705.1 (5) amended; General.

Section P2705.1 (5) of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P2705.1 General. (5). Water closets, lavatories and bidets. A water closet or lavatories or bidet shall not be set closer than 15 inches (381 mm) from its center to any side wall, partition or vanity or closer, or not less than 15 inches (381 mm) from the centerline of a bidet to the outermost rim of an adjacent water closet, or closer than thirty (30) inches (762 mm) center-to-center between adjacent fixtures. There shall be at least a 24 inch (533 mm) clearance in front of the water closet, lavatory or bidet to any wall, fixture or door.

16.06.330 Section P2708.1 amended; General.

Section P2708.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P2708.1 General. Shower compartments shall have at least 1,024 square inches (0.6 m²) of interior cross-sectional area. Shower compartments shall be not less than 32 inches (762mm) in minimum dimension measured from the finished interior dimension of the shower compartment, exclusive of fixture valves, shower heads, soap dishes, and safety grab bars or rails. The minimum required area and dimension shall be measured from the finished interior dimension at a height equal to the top of the threshold and at a point tangent to its centerline and shall be continued to a height of not less than 70 inches (1,778 mm) above the shower drain outlet. Hinged shower doors shall open outward. The wall area above built-in tubs having installed shower heads and in shower compartments shall be constructed in accordance with Section R702.4. Such walls shall form a water-tight joint with each other and with either the tub, receptor or shower floor.

Exceptions:

1. Fold-down seats shall be permitted in the shower, provided the required 1,024-square-inch (0.6 m²) dimension is maintained when the seat is in the folded-up position.

16.06.340 Section P2708.1 Exception (2) deleted; General.

Section P2708.1 Exception (2) of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.350 Section P2718.1 amended; Waste connection.

Section P2718.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P2718.1 Waste connection. The waste from an automatic clothes washer shall discharge through an air break into a standpipe in accordance with Section P2706.2 or into a laundry sink. The trap and fixture drain for an automatic clothes washer standpipe shall be a minimum of two 2 (51 mm) in diameter. The automatic clothes washer fixture drain shall connect to a branch drain or drainage stack a minimum of 2 inches (51 mm) in diameter.

16.06.360 Table P3005.4.1 amended; Maximum fixture units allowed to be connected to branches and stacks.

Table P3005.4.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

**TABLE 3005.4.1
MAXIMUM UNIT LOADING AND
MAXIMUM LENGTH OF DRAINAGE AND VENT PIPING**

Size of Pipe, inches (mm)	1-1/4 (32)	1-1/2 (40)	2 (50)	2-1/2 (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)
Maximum Units											
Drainage Piping ¹											
Vertical	1	2 ²	16 ³	32 ³	48 ⁴	256	600	1380	3600	5600	8400
Horizontal	1	1	8 ³	14 ³	35 ⁴	216 ⁵	428 ⁵	720 ⁵	2640 ⁵	4680 ⁵	8200 ⁵
Maximum Length											
Drainage Piping											
Vertical, feet (m)	45 (14)	65 (20)	85 (26)	148 (45)	212 (65)	300 (91)	390 (119)	510 (155)	750 (228)		
Horizontal (Unlimited)											
Vent Piping (See note)											
Horizontal and Vertical											
Maximum Units	1	8 ³	24	48	84	256	600	1380	3600		
Maximum Lengths, feet (m)	45 (14)	60 (18)	120 (37)	180 (55)	212 (65)	300 (91)	390 (119)	510 (155)	750 (228)		

¹ Excluding trap arm.

² Except sinks, urinals and dishwashers

³ Except six-unit traps or water closets

⁴ Only four (4) water closets or six-unit traps allowed on any vertical pipe or stack; and not to exceed three (3) water closets or six-unit traps on any horizontal branch or drain.

⁵ Based on one-fourth (1/4) inch per foot (20.9 mm/m) slope. For one-eighth (1/8) inch per foot (10.4 mm/m) slope, multiply horizontal fixture units by a factor of 0.8.

Note: The diameter of an individual vent shall not be less than one and one-fourth (1-1/4) inches (31.8 mm) nor less than one-half (2) the diameter of the drain to which it is connected. Fixture unit load values for drainage and vent piping shall be computed from Table P3004.1 Not to exceed one-third (1/3) of the total permitted length of any vent may be installed in a horizontal position. When vents are increased one (1) pipe size for their entire length, the maximum length limitations specified in this table do not apply.

16.06.370 Section P3005.4.2 amended; Building drain and sewer size and slope.

P3005.4.2 Building drain and sewer size and slope. Pipe sizes and slope shall be determined from Table P3005.4.1 on the basis of drainage load in fixture units (d.f.u.) computed from Table P3005.4.1.

16.06.380 Table P3005.4.2 deleted; Maximum number of fixture units allowed to be connected to the building drain, building drain branches or the building sewer.

Table P3005.4.2 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.390 Section P3007.6 amended; Sewage ejectors or sewage pumps.

Section P3007.6 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3007.6 Capacity. A sewage ejector, sewage pump, or grinder pump receiving discharge from a water closet shall have minimum discharge velocity of 1.9 feet per second (0.579 m/s) throughout the discharge piping to the point of connection with a gravity building drain, gravity sewer or pressure sewer system. A nongrinding pump or ejector shall be capable of passing a 2-inch-diameter (38 mm) solid ball, and the discharge piping shall be not less than 2 inches (51 mm) in diameter. The discharge piping of grinding pumps shall be not less than 1 1/4 inches (32 mm) in diameter. A check valve and a gate valve located on the discharge side of the check valve shall be installed in the pump or ejector discharge piping between the pump or ejector and the drainage system. Access shall be provided to such valves. Such valves shall be located above the sump cover or, where the discharge pipe from the ejector is below grade, the valves shall be accessibly located outside the sump below grade in an access pit with a removable access cover.

Exception: Macerating toilet systems shall be permitted to have the discharge pipe sized in accordance with manufacturer's instructions, but not less than 0.75 inch (19 mm) in diameter.

16.06.400 Table P3105.1 amended; Maximum Distance of Fixture Trap From Vent

Table P3105.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

**TABLE P3105.1
MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT**

SIZE OF TRAP (inches)	SLOPE (inch per foot)	DISTANCE FROM TRAP (feet)
1 ¼	¼	2'6"
1 ½	¼	3'6"
2	¼	5'
3	¼	6'
4 & up	¼	10'

16.06.410 Section P3107.3 amended; Connection at different levels.

Section P3107.3 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3107.3 Connection at different levels. Where the fixture drains connect at different levels, the vent shall connect as a vertical extension of the vertical drain. The vertical drain pipe connecting the two fixture drains shall be considered the vent for the lower fixture drain, and shall be sized in accordance with Table P3005.4.1. The upper fixture shall not be a water closet.

16.06.420 Table P3107.3 deleted; Common Vent Sizes.

Table P3107.3 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.430 Section P3108.3 amended; Size

Section P3108.3 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3108.3 Size. Horizontal and vertical wet vents shall be of a minimum size as specified in Table P3005.4.1, based on the fixture unit discharge to the wet vent. The dry vent serving the wet vent shall be sized based on the largest required diameter of pipe within the wet-vent system served by the dry vent.

16.06.440 Table P3108.3 deleted; Wet vent size.

Table P3108.3 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.450 Section P3109.4 amended; Waste stack size.

Section P3109.4 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3109.4 Waste stack size. The waste stack shall be sized based on the total discharge to the stack and the discharge within a branch interval in accordance with Table P3005.4.1. The waste stack shall be the same size throughout the length of the waste stack.

16.06.460 Table P3109.4 deleted; Waste stack vent size.

Table P3109.4 of the Residential Code, adopted at Section 16.06.010 is deleted in its entirety.

16.06.470 Section P3110.1 amended; Circuit vent permitted.

Section P3110.1 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3110.1 Circuit vent permitted. When approved by the Authority Having Jurisdiction, a maximum of eight fixtures connected to a horizontal branch drain shall be permitted to be circuit vented. Each fixture drain shall connect horizontally to the horizontal branch being circuit vented.

The horizontal branch drain shall be classified as a vent from the most downstream fixture drain connection to the most upstream fixture drain connection to the horizontal branch.

16.06.480 Section P3114.3 amended; Where permitted.

Section P3114.3 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

P3114.3 Where permitted. Individual vents, branch vents, circuit vents and stack vents serving a sink under a bearing wall, island sink installation, basement bar sink installation or locations approved by the building official shall be permitted to terminate with a connection to an air admittance valve. The air admittance valve shall only vent fixtures that are on the same floor level and connect to a horizontal branch drain.

16.06.490 Table P3201.7 amended; Size of traps and Trap Arms for Plumbing Fixtures.

Table P3201.7 of the Residential Code, adopted at Section 16.06.010 is amended to read as follows:

**TABLE P3201.7
SIZE OF TRAPS AND TRAP ARMS FOR PLUMBING FIXTURES**

PLUMBING FIXTURE	TRAP SIZE MINIMUM (INCHES)
Bathtub (with or without shower head and/ or whirlpool attachments)	1 ½
Bidet	1 ¼
Clothes washer standpipe	2
Dishwasher (on separate trap)	1 ½
Floor Drain	2
Kitchen sink (one or two traps, with or without dishwasher and garbage grinder)	1 ½
Laundry tub (one or more compartments)	1 1/2
Lavatory	1 1/4
Shower (based on the total flow rate through showerheads and bodysprays) Flow rate: 12.3 gpm or less More than 12.3 gpm up to 25.8 gpm More than 25.8 gpm up to 55.6 gpm	 2 3 4
Water Closet	Note a

For SI: 1 inch = 25.4 mm.

a. Consult fixture standards for trap dimensions of specific bowls

16.06.500 Part VIII – amended; Electrical.

Part VIII – Electrical. This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of the adopted National Electrical Code. Other references within this code regarding electrical shall be considered amended to read “the adopted National Electrical Code.”

Section 4. Chapter 16.08, Mechanical Code, is hereby re-enacted as follows:

Chapter 16.08 Mechanical Code

16.08.010 International Mechanical Code adopted.

The International Mechanical Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Mechanical Code. The Mechanical Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Mechanical Code provides the standards for the design, installation, alteration and inspection of mechanical systems within this jurisdiction.

16.08.020 Additions, Deletions, and Amendments to Mechanical Code designated.

Sections 106.5.2, 106.5.3, 108.4, 108.5, 109, 202, 312.1, 506.3.10, and 506.3.10.4 of the Mechanical Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.08.040 through 16.08.180

16.08.040 Section 106.5.2 amended; Fee schedule.

Section 106.5.2 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

106.5.2 Fee Schedule. Every applicant for a permit to do work regulated by this code shall state in writing, on the application form provided for that purpose, the character of work proposed to be done and the amount and kind in connection therewith, together with such information pertinent thereto as may be required.

Such applicant shall pay for each permit, at the time of issuance, a fee in accordance with the fees established in Section 16.04.050 of the Greeley Municipal Code.

16.08.060 Section 106.5.3 amended; Fee Refunds.

Section 106.5.3 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

106.5.3 Fee refunds. The code official shall authorize the refunding of fees as follows:

1. The full amount of any fee paid hereunder that was erroneously paid or collected.
2. Not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

3. Not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The code official shall not authorize the refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

16.08.080 Section 108.4 amended; Violation penalties.

Section 108.4 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

108.4 Violation penalties. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor, punishable as per Chapter 1.33 of the Greeley Municipal Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

16.08.100 Section 108.5 amended; Stop work orders.

Section 108.5 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

108.5 Stop work orders. Upon notice from the code official, work on any mechanical system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work.

16.08.120 Section 109 amended; Means of appeals.

Section 109 of the Mechanical Code, adopted at Section 16.08.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110

16.08.130 Section 202 amended; General Definitions

Section 202 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

LIGHT-DUTY COOKING APPLIANCE. Light-duty cooking appliances include gas and electric ovens (including standard, bake, roasting, revolving, retherm, convection, combination convection/steamer and pastry), electric and gas steam-jacketed kettles, electric and gas compartment steamers (both pressure and atmospheric) and electric and gas cheesemelters.

MEDIUM-DUTY COOKING APPLIANCE. Medium-duty cooking appliances include electric discrete element ranges (with or without oven), electric and gas hot-top ranges, electric and gas griddles, electric and gas double-sided griddles, electric and gas fryers (including open deep fat fryers, donut fryers, kettle fryers, and pressure fryers), electric and gas pasta cookers, electric and gas conveyor, deck or deck-style pizza ovens, electric and gas tilting skillets (braising pans) and electric and gas rotisseries.

16.08.140 Section 312.1 amended; Load calculations.

Section 312.1 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

312.1 Load calculations. Heating and cooling system design loads for the purpose of sizing systems, appliances and equipment shall be determined in accordance with the procedures described in the ASHRAE *Hand book of Fundamentals*. Heating and cooling loads shall be adjusted to account for load reductions that are achieved when energy recovery systems are utilized in the HVAC system in accordance with the ASHRAE Handbook - *HVAC Systems and Equipment*. Alternatively, design loads shall be determined by an approved equivalent computation procedure, using the design parameters specified in Chapter 3 of the *International Energy Conservation Code*. Any load calculations submitted to the jurisdiction shall bear the seal of a State of Colorado registered mechanical engineer.

16.08.160 Section 506.3.10 amended; Grease duct enclosure.

Section 506.3.10 of the Mechanical Code, adopted at Section 16.08.010 is amended to read as follows:

506.3.10 Grease duct enclosure. A grease duct serving a Type I hood that penetrates a ceiling, wall or floor shall be enclosed from the point of penetration to the outlet terminal. A duct shall penetrate exterior walls only at locations where unprotected openings are permitted by the *International Building Code*. Ducts shall be enclosed in accordance with the *International Building Code* requirements for shaft construction. The duct enclosure shall be sealed around the duct at the point of penetration and vented to the outside of the building through the use of weather-protected openings. Clearance from the duct to the interior surface of enclosures of combustibile construction shall be not less than 18 inches (457 mm). Clearance from the duct to the interior surface of enclosures of noncombustible construction or gypsum wallboard attached to noncombustible structures shall be not less than 6 inches (152 mm). The duct enclosure shall serve a single grease exhaust duct system and shall not contain any other ducts, piping, wiring or systems.

Exceptions:

1. The shaft enclosure provisions of this section shall not be required where a duct penetration is protected with a through-penetration fire stop system classified in accordance with ASTM E 814 and having an "F" and "T" rating equal to the fire-resistance rating of the assembly being penetrated and where the surface of the duct is continuously covered on all sides from the point at which the duct penetrates a ceiling, wall or floor to the outlet terminal with a classified and labeled material, system, method of construction or product specifically evaluated for such purpose, in accordance with a nationally recognized standard for such enclosure materials. Exposed duct wrap systems shall be protected where subject to physical damage.

16.08.180 Section 506.3.10.4 deleted; Duct enclosure not required.

Section 506.3.10.4 of the Mechanical Code, adopted at Section 16.08.010 is deleted in its entirety.

Section 5. Chapter 16.10, Property Maintenance Code, is hereby re-enacted as follows:

Chapter 16.10

Property Maintenance Code

16.10.010 International Property Maintenance code.

The International Property Maintenance Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Property Maintenance Code. The Property Maintenance Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Property Maintenance code shall apply to all existing residential and nonresidential structures and all existing premises and constitute minimum requirements and standards for premises, structures, equipment and facilities for light, ventilation, space, heating, sanitation, protection from the elements, life safety, safety from fire and other hazards, and for safe and sanitary maintenance; the responsibility of owners, operators and occupants; the occupancy of existing structures and premises, and for administration, enforcement and penalties.

16.10.020 Additions, Deletions, and Amendments to Property Maintenance Code designated.

Sections 107.3, 111.2, 116.1, 202, 302.4, 302.8, 304.14, 307, 404.5, 404.5.1, 404.5.2, 602.3, 602.4, of the Property Maintenance Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.10.030 through 16.10.150.

16.10.30 Section 107.3 amended; Method of service.

Section 107.3 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

107.3 Method of service. Such notice shall be deemed to be properly served if a copy thereof is:

1. Delivered personally; or
2. Sent by certified or first-class mail addressed to the last known address and a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice; or
3. If the notice is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice.

16.10.040 Section 111.2 amended; Membership of board.

Section 111.2 of the Property Maintenance Code, adopted at Section 16.10.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110.

16.10.050 Section 116.1 amended; Unsafe buildings.

Section 116.1 of the Property Maintenance Code, adopted at Section 16.10.010, is amended to read as follows:

116.1.1 Preliminary Assessment. Following written notice and posting of the property declared as "Unsafe" in accordance with Section 116.1 of the Property Maintenance Code, and as a result of suspected contamination as a result of the discovery of chemicals, equipment, or supplies indicative of an Illegal Drug Laboratory or when such a laboratory used to manufacture methamphetamine is otherwise discovered by and reported to the City by a law enforcement official, the property owner has 21 calendar days in which to have a Preliminary Assessment of the property conducted by a Industrial Hygienist ("consultant") as defined by the Weld County Health Department. A written plan must be provided by the consultant as part of this Preliminary Assessment of the planned actions to decontaminate the subject property.

116.1.2 Time to Commence Remediation or Demolition. Based upon the findings of the consultant and the written corroboration of the proposed plan by the Weld County Health Department, the property owner has 30 calendar days from the date of the Health Department review to commence remediation or demolition of the structure.

116.1.3 Permits Required – Time to Complete Remediation and/or Demolition. The property owner shall obtain all necessary permits for the decontamination, remediation and/or demolition of the structure, which work shall in any event not be completed any later than 120 calendar days from the date of the initial posting and notice of the property by the code official.

116.1.4 Prohibition on Placard Removal. No party may remove any placards identifying the structure as unsafe except by authorization by the appropriate official and subject to the successful remediation or removal of the hazardous condition.

116.1.5 Appeals. Appeals by persons directed by the code official to take actions as described in this section are entitled to a hearing and review as described in Ordinance Sections 16.04.080 and 16.04.090.

Any violation of this Section shall be punishable as provided in Chapter 1.33 of this Code.

16.10.060 Section 202 amended; General Definitions.

Section 202 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

HABITABLE SPACE. Space in a structure with permanent walls for living, sleeping, eating, or cooking. Bathrooms, toilet rooms, closets, halls, storage, unfinished basements, or utility spaces, and similar areas are not considered habitable spaces.

ILLEGAL DRUG LABORATORY. Areas where controlled substances, as defined by Section 18-18-102, C.R.S., have been manufactured, processed, cooked, disposed of, used, or stored and all proximate areas that are likely to be contaminated as a result of such manufacturing, processing, cooking, disposal, use, or storing.

16.10.070 Section 302.4 deleted; Weeds.

Section 302.4 of the Property Maintenance Code, adopted at Section 16.06.010 is deleted in its entirety.

16.10.080 Section 302.8 deleted; Motor vehicles.

Section 302.8 of the Property Maintenance Code, adopted at Section 16.06.010 is deleted in its entirety.

16.10.090 Section 304.14 amended; Insect screens.

Section 304.14 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

304.14 Insect screens. Every door, window and other outside opening required for ventilation of habitable rooms, food preparation areas, food service areas or any areas where products to be included or utilized in food for human consumption are processed, manufactured, packaged or stored, shall be supplied with approved tightly fitting screens of not less than 16 mesh per inch (16 mesh per 25 mm) and every swinging screened door shall have a self closing device in good working condition.

Exception: Screens shall not be required where other approved means, such as air curtains or insect repellent fans, are employed.

16.10.100 Section 307 deleted; Rubbish and Garbage

Section 307 of the Property Maintenance Code, adopted at Section 16.06.010 is deleted in its entirety.

16.10.110 Section 404.5 amended; Overcrowding.

Section 404.5 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

404.5 Overcrowding. Dwelling units shall not be occupied by more occupants than permitted by the minimum area requirements of Table 404.5.

**TABLE 404.5
MINIMUM AREA REQUIREMENTS**

SPACE	MINIMUM AREA IN SQUARE FEET		
	1-2 occupants	3-5 occupants	6 or more occupants
Living room ^{a,b}	No requirements	120	150
Dining room ^{a,b}	No requirements	80	100
Bedrooms	Shall comply with Section 404.4		

For SI: 1 square foot = 0.093 m².

a. See Section 404.5.2 for combined living room/dining room spaces.

b. See Section 404.5.1 for limitations on determining the minimum occupancy area for sleeping purposes.

16.10.120 Section 404.5.1 added; Sleeping area.

Section 404.5.1 of the Property Maintenance Code, adopted at Section 16.10.010 is added as follows:

404.5.1 Sleeping area. The minimum occupancy area required by Table 404.5 shall not be included as a sleeping area in determining the minimum occupancy area for sleeping purposes. All sleeping areas shall comply with Section 404.4.

16.10.130 Section 404.5.2 added; Combined spaces.

Section 404.5.2 of the Property Maintenance Code, adopted at Section 16.10.010 is added as follows:

404.5.2 Combined spaces. Combined living room and dining room spaces shall comply with the requirements of Table 404.5 if the total area is equal to that required for separate rooms and if the space is located so as to function as a combination living room/dining room.

16.10.140 Section 602.3 amended; Heat supply.

Section 602.3 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

602.3 Heat supply. Every owner and operator of any building who rents, leases or lets one or more dwelling unit, rooming unit, dormitory or guestroom on terms, either expressed or implied, to furnish heat to the occupants thereof shall supply heat to maintain a temperature of not less than 68°F (20°C) in all habitable rooms, bathrooms, and toilet rooms.

Exceptions:

1. When the outdoor temperature is below the winter outdoor design temperature for the City, maintenance of the minimum room temperature shall not be required provided that the heating system is operating at its full design capacity. The winter outdoor design temperature for the locality shall be as indicated in Appendix D of the *International Plumbing Code*.

16.10.150 Section 602.4 amended; Occupiable work spaces.

Section 602.4 of the Property Maintenance Code, adopted at Section 16.10.010 is amended to read as follows:

602.4 Occupiable work spaces. Indoor occupiable work spaces shall be supplied with heat to maintain a temperature of not less than 65°F (18°C) during the period the spaces are occupied.

Exceptions:

1. Processing, storage and operation areas that require cooling or special temperature conditions.
2. Areas in which persons are primarily engaged in vigorous physical activities.

Section 6. Chapter 16.12, Existing Building Code, is hereby re-enacted as follows:

Chapter 16.12

Existing Building Code

16.12.010 International Existing Building code.

The International Existing Building Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Existing Building Code. The Existing Building Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Existing Building Code provides the standards for the alteration, repair, addition, moving, change of occupancy, and relocation of existing buildings.

16.12.020 Additions, Deletions, and Amendments to Existing Building Code designated.

Sections 108.2, 108.4, 112 and 1301.2, of the Existing Building Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.12.040 through 16.12.080.

16.12.030 Section 108.2 amended; Schedule of permit fees.

Section 108.2 of the Existing Building Code, adopted at Section 16.06.010 is amended to read as follows:

108.2 Schedule of permit fees. On buildings, structures, electrical, gas, mechanical and plumbing systems or alterations requiring a permit, a fee for each permit shall be paid in accordance with the fees established in Section 16.04.050 of the Greeley Municipal Code.

16.12.040 Section 108.4 amended; Work commencing before permit issuance.

Section 108.4 of the Existing Building Code, adopted at Section 16.06.010 is amended to read as follows:

108.4 Work commencing before permit issuance. Any person who commences work on a building or structure governed by this code before obtaining the necessary permits shall be subject to 200 percent of the usual permit fee.

16.12.050 Section 112.1 amended; Board of Appeals.

Section 112.1 of the Existing Building Code, adopted at Section 16.12.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110.

16.12.080 Section 1301.2 amended; Applicability.

Section 1301.2 of the Existing Building Code, adopted at Section 16.12.010 is amended to read as follows:

Section 1301.2 Applicability. Structures existing at the time of adoption of this code in which there is work involving additions, alterations, or changes of occupancy shall be made to conform to the requirements of this chapter or the provisions of Chapters 4 through 10. The provisions of Sections 1301.2.1 through 1301.2.5 shall apply to existing occupancies that will continue to be, or are

proposed to be, in Groups A, B, E, F, M, R, and S. These provisions shall not apply to buildings with occupancies in Group H or Group I.

Section 7. Chapter 16.16, Energy Conservation Code, is hereby enacted as follows.

Chapter 16.16
Energy Conservation Code

16.16.010 International Energy Conservation Code.

The International Energy Conservation Code, 2009 Edition is adopted by reference for the City, and is hereinafter referred to as the Energy Conservation Code. The Energy Conservation Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Energy Conservation Code regulates the design and construction of buildings for the effective use of energy.

Section 8. Chapter 16.28, Plumbing Code, is hereby re-enacted as follows:

Chapter 16.28
Plumbing Code

16.28.010 International Plumbing Code adopted.

The International Plumbing Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Plumbing Code. The Plumbing Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Plumbing Code provides the standards for erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction.

16.28.020 Additions, Deletions, and Amendments to Plumbing Code designated.

Sections 106.6.2, 106.6.3, 108.4, 108.5, 109, 305.6, 405.3.1, 405.5, 406.3, 414.2, 417.4, 712.4.2, 712.4.3, 906.1, 911.1, 912.4, 916.1, 917.3, 1003.3.4.1, 1103.1, 1113.1.2, and 1113.1.3 of the Plumbing Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.28.040 through 16.28.500

16.28.040 Section 106.6.2 amended; Fee schedule.

Section 106.6.2 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

106.6.2 Fee Schedule. Every applicant for a permit to do work regulated by this code shall state in writing, on the application form provided for that purpose, the character of work proposed to be done and the amount and kind in connection therewith, together with such information pertinent thereto as may be required.

Such applicant shall pay for each permit, at the time of issuance, a fee in accordance with the fees established in Section 16.04.050 of the Greeley Municipal Code.

16.28.060 Section 106.6.3 amended; Fee Refunds.

Section 106.6.3 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

106.6.3 Fee refunds. The code official shall authorize the refunding of fees as follows:

1. The full amount of any fee paid hereunder that was erroneously paid or collected.
2. Not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The code official shall not authorize the refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

16.28.080 Section 108.4 amended; Violation penalties.

Section 108.4 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

108.4 Violation penalties. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair plumbing work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor, punishable as per Chapter 1.33 of the Greeley Municipal Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

16.28.100 Section 108.5 amended; Stop work orders.

Section 108.5 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

108.5 Stop work orders. Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work.

16.28.120 Section 109 amended; Means of appeals.

Section 109 of the Plumbing Code, adopted at Section 16.28.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110.

16.28.140 Section 305.6 amended; Freezing.

Section 305.6 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

305.6 Freezing. Water, soil and waste pipes shall not be installed outside of a building, in attics or crawl spaces, concealed in outside walls, or in any other place subjected to freezing temperature unless adequate provision is made to protect such pipes from freezing by insulation or heat or both. Exterior water supply system piping shall be installed not less than 12 inches (305 mm) below the frost line and not less than 12 inches (305 mm) below grade.

16.28.160 Section 405.3.1 amended; Water closets, urinals, lavatories and bidets.

Section 405.3.1 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

405.3.1 Water closets, urinals, lavatories and bidets. A water closet, urinal, lavatory or bidet shall not be set closer than 15 inches (381 mm) from its center to any sidewall, partition, vanity or other obstruction, or closer than 30 inches (762 mm) center-to-center between adjacent fixtures. There shall be at least a 24-inch (609 mm) clearance in front of the water closet, urinal or bidet to any wall, fixture or door. Water closet compartments shall not be less than 30 inches (762 mm) wide or 60 inches (1524 mm) deep. There shall be at least a 24-inch (609 mm) clearance in front of a lavatory to any wall, fixture or door.

16.28.180 405.5 amended; Water-tight joints.

Section 405.5 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

405.5 Water-tight joints. In facilities designed for public use, joints formed where fixtures come in contact with walls or floors shall be sealed.

16.28.200 406.3 amended; Waste connection.

Section 406.3 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

406.3 Waste connection. The waste from an automatic clothes washer shall discharge through an air break into a standpipe in accordance with Section 802.4 or into a laundry sink. The trap and fixture drain for an automatic clothes washer standpipe shall be a minimum of 2 inches (51 mm) in diameter. The automatic clothes washer fixture drain shall connect to a branch drain or drainage stack a minimum of 2 inches (51 mm) in diameter.

16.28.220 414.2 amended; Waste connection.

Section 414.2 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

414.2 Waste connection. Garbage can washers shall be located only in weather tight enclosures and shall be trapped separately. The receptacle receiving the waste from the washer shall have a removable basket or strainer to prevent the discharge of large particles into the drainage system.

16.28.240 417.4 amended; Shower compartments.

Section 417.4 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

417.4 Shower compartments. All shower compartments shall have a minimum of 1,024 square inches (.66 m²) of interior cross-sectional area. Shower compartments shall not be less than 32 inches (813 mm) in minimum dimension measured from the finished interior dimension of the compartment, exclusive of fixture valves, showerheads, soap dishes, and safety grab bars or rails. Except as required in Section 404, the minimum required area and dimension shall be measured from the finished interior dimension at a height equal to the top of the threshold and at a point tangent to its centerline and shall be continued to a height not less than 70 inches (1,778 mm) above the shower drain outlet.

16.28.260 417.4 deleted; Exception, Shower compartments.

Section 417.4, Exception, of the Plumbing Code, adopted at Section 16.28.010 is deleted in its entirety.

16.28.280 712.4.2 amended; Capacity.

Section 712.4.2 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

712.4.2 Capacity. A sewage pump or sewage ejector shall have the capacity and head for the application requirements. Pumps or ejectors that receive the discharge of water closets shall be capable of handling spherical solids with a diameter of up to and including 2 inches (51 mm). Other pumps or ejectors shall be capable of handling spherical solids with a diameter of up to and including 1 inch (25.4 mm). The minimum capacity of a pump or ejector based on the diameter of the discharge pipe shall be in accordance with Table 712.4.2.

Exceptions:

1. Grinder pumps or grinder ejectors that receive the discharge of water closets shall have a minimum discharge opening of 2 inches (51 mm).

16.28.320 712.4.3 added; Public Use.

Section 712.4.3 of the Plumbing Code, adopted at Section 16.28.010 shall be added to read as follows:

712.4.3 Public use. Sumps and receiving tanks in occupancies for public use shall be provided with dual pumps or ejectors arranged to function independently in case of overload or mechanical failure. The lowest inlet shall have a minimum clearance of two (2) inches (51 mm) from the high water or “starting” level of the sump

16.28.340 Table 906.1 amended; Maximum distance of fixture trap from vent.

Table 906.1 of the Plumbing Code, adopted at Section 16.28.010 shall be amended as follows:

**TABLE 906.1
MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT**

Trap Arm	Distance		Trap Arm	Distance
	Trap to Vent	Trap to Vent		
Inches	Feet	Inches	mm	mm
1-1/4	2	6	32	762
1-1/2	3	6	38	1067
2	5	0	51	1524
3	6	0	76	1829
4 & larger	10	0	102 & larger	3048

Slope = one-fourth (1/4) inch per foot (20.9 mm/m)

*The developed length between the trap of a water closet or similar fixture (measured from the top of the closet ring [closet flange] to the inner edge of the vent) and its vent shall not exceed six (6) feet.

16.28.360 911.1 amended; Circuit vent permitted.

Section 911.1 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

911.1 Circuit vent permitted. When approved by the authority having jurisdiction, a maximum of eight fixtures connected to a horizontal branch drain shall be permitted to be circuit vented. Each fixture drain shall connect horizontally to the horizontal branch being circuit vented. The horizontal branch drain shall be classified as a vent from the most downstream fixture drain connection to the most upstream fixture drain connection to the horizontal branch.

16.28.380 912.4 added; Grease Introduction.

Section 912.4 of the Plumbing Code, adopted at Section 16.28.010 shall be added to read as follows:

912.4 Grease Introduction. No water closet, urinal or any fixture where grease may be introduced shall dump into a combination waste and vent system.

16.28.400 Table 916.1 amended; SIZE AND DEVELOPED LENGTH OF STACK VENTS AND VENT STACKS.

Table 916.1 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

TABLE 916.1
Maximum Unit Loading and Maximum Length of Drainage and Vent Piping

Size of Pipe, inches (mm)	1-1/4 (32)	1-1/2 (40)	2 (50)	2-1/2 (65)	3 (80)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)
Maximum Units											
Drainage Piping ¹											
Vertical	1	2 ²	16 ³	32 ³	48 ⁴	256	600	1380	3600	5600	8400
Horizontal	1	1	8 ³	14 ³	35 ⁴	216 ⁵	428 ⁵	720 ⁵	2640 ⁵	4680 ⁵	8200 ⁵
Maximum Length											
Drainage Piping											
Vertical, feet	45	65	85	148	212	300	390	510	750		
(m)	(14)	(20)	(26)	(45)	(65)	(91)	(119)	(155)	(228)		
Horizontal (Unlimited)											
Vent Piping (See note)											
Horizontal and Vertical											
Maximum Units	1	8 ³	24	48	84	256	600	1380	3600		
Maximum Lengths, feet	45	60	120	180	212	300	390	510	750		
(m)	(14)	(18)	(37)	(55)	(65)	(91)	(119)	(155)	(228)		

¹ Excluding trap arm.

² Except sinks, urinals and dishwashers

³ Except six-unit traps or water closets

⁴ Only four (4) water closets or six-unit traps allowed on any vertical pipe or stack; and not to exceed three (3) water closets or six-unit traps on any horizontal branch or drain.

⁵ Based on one-fourth (1/4) inch per foot (20.9 mm/m) slope. For one-eighth (1/8) inch per foot (10.4 mm/m) slope, multiply horizontal fixture units by a factor of 0.8.

Note: The diameter of an individual vent shall not be less than one and one-fourth (1-1/4) inches (31.8 mm) nor less than one-half (2) the diameter of the drain to which it is connected. Fixture unit load values for drainage and vent piping shall be computed from Tables 7-3 and 7-4. Not to exceed one-third (1/3) of the total permitted length of any vent may be installed in a horizontal position. When vents are increased one (1) pipe size for their entire length, the maximum length limitations specified in this table do not apply.

16.28.420 917.3 amended; Where permitted.

Section 917.3 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

917.3 Where permitted. Individual, branch and circuit vents serving a sink under a bearing wall, island sink installation, basement bar sink installation or locations approved by the building official shall be permitted to terminate with a connection to an air admittance valve. The air admittance valve shall only vent fixtures that are on the same floor level and connect to a horizontal branch drain. The horizontal branch drain shall conform to Section 917.3.1 or Section 917.3.2.

16.28.440 1003.3.4.1 amended; Grease interceptors.

Section 1003.3.4.1 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

1003.3.4.1 Grease interceptor capacity. Grease Interceptors shall be sized as per table 1003.3.4.1

**TABLE 1003.3.4.1
GREASE INTERCEPTOR SIZING**

Number of meals per peak hour	X	Waste flow rate	X	Retention time	X	Storage factor	=	Interceptor size (liquid capacity)
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1. Meals Served at Peak Hour

2. Waste Flow Rate

- a. With dishwashing machine..... 6 gallon (22.7L) flow
- b. Without dishwashing machine..... 5 gallon (18.9L) flow
- c. Single service kitchen..... 2 gallon (7.6L) flow
- d. Food waste disposer..... 1 gallon 23.8.L) flow

3. Retention Times

- Commercial kitchen waste
- Dishwasher..... 2.5 hours
- Single Service Kitchen
- Single serving..... 1.5 hours

4. Storage Factors

- Fully equipped commercial kitchen..... 8 hour operation: 1
- 16 hour operation: 2
- 24 hour operation: 3
- Single Service Kitchen..... 1.5

16.28.460 1103.1 amended; Main trap.

Section 1103.1 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

1103.1 Main trap. Leaders and storm drains shall not be connected to the sanitary sewer system.

16.28.480 1113.1.2 amended; Sump Pit.

Section 1113.1.2 of the Plumbing Code, adopted at Section 16.28.010 shall be amended to read as follows:

1113.1.2 Sump Pit. Where it is not possible to convey the drainage by gravity, subsoil drains shall discharge to an accessible sump pit. A sump pit shall be at least eighteen (18) inches (457 mm) in diameter, twenty-four (24) inches (610 mm) in depth in depth, and provided with a fitted cover including rough-in discharge piping and 110v GFI electrical power supply. The sump pump, if provided, shall have an adequate capacity to discharge all water coming into the sump as it accumulates to the required discharge point, and the capacity of the pump shall not be less than fifteen (15) gpm (1.0 L/s).

The discharge piping for the sump pump shall include the following:

- (1) Be 1 1/2" (one and one-half) inches in diameter,
- (2) Terminate within 5' (five feet) of the sump pit,
- (3) Extend a minimum of 12" (twelve inches) below the floor joists above,

(4) Terminate at the exterior of the structure with a removable cap.

16.28.500 Section 1113.1.3 amended; Electrical.

Section 1113.1.3 of the Plumbing Code, adopted at Section 16.28.010 is amended to read as follows:

1113.1.3 Electrical. A 125-volt, 15-ampere, GFCI-protected, electrical receptacle outlet shall be installed within five (5) feet of the sump pit location. The branch circuit feeding this outlet shall be a dedicated circuit.

Section 9. Chapter 16.30, Fuel Gas Code, is hereby re-enacted as follows:

Chapter 16.30

Fuel Gas Code

16.30.010 International Fuel Gas Code adopted.

The International Fuel Gas Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Fuel Gas Code. The Fuel Gas Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Fuel Gas Code shall apply to the installation of fuel-gas piping systems, fuel-gas utilization equipment and related accessories.

16.30.020 Additions, Deletions, and Amendments to Fuel Gas Code designated.

Sections 106.6.2, 106.6.3, 108.4, 108.5, 109, 404.4, 404.7, 404.10, 406.4.1, 406.4.2, and 621 of the Fuel Gas Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.24.040 through 16.24.240

16.30.040 Section 106.6.2 amended; Fee schedule.

Section 106.6.2 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

106.6.2 Fee Schedule. Every applicant for a permit to do work regulated by this code shall state in writing, on the application form provided for that purpose, the character of work proposed to be done and the amount and kind in connection therewith, together with such information pertinent thereto as may be required.

Such applicant shall pay for each permit, at the time of issuance, a fee in accordance with the fees established in Section 16.04.050 of the Greeley Municipal Code.

16.30.060 Section 106.6.3 amended; Fee refunds.

Section 106.6.3 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

106.6.3 Fee refunds. The code official shall authorize the refunding of fees as follows:

1. The full amount of any fee paid hereunder that was erroneously paid or collected.

2. Not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

3. Not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The code official shall not authorize the refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

16.30.080 Section 108.4 amended; Violation penalties.

Section 108.4 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

108.4 Violation penalties. Persons who shall violate a provision of this code, fail to comply with any of the requirements thereof or erect, install, alter or repair work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor, punishable as per Chapter 1.33 of the Greeley Municipal Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

16.30.100 Section 108.5 amended; Stop work orders.

Section 108.5 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

108.5 Stop work orders. Upon notice from the code official that work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, the owner's agent, or the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work.

16.30.120 Section 109 amended; Means of Appeal.

Section 109 of the Fuel Gas Code adopted at Section 16.30.010 shall be as described in Ordinance Sections 16.04.100 and 16.04.110

16.30.140 Section 404.7 amended; Above-ground outdoor piping.

Section 404.7 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

404.7 Above-ground outdoor piping. All piping installed out doors shall be elevated not less than 6 inches (152 mm) above ground and where installed across roof surfaces, shall be elevated not less than 6 inches (152 mm) above the roof surface. Piping installed above ground, outdoors, and installed across the surface of roofs shall be securely supported and located where it will be protected from physical damage. Where passing through an outside wall, the piping shall also be protected against corrosion by coating or wrapping with an inert material. Where piping is encased in a protective pipe sleeve, the annular space between the piping and the sleeve shall be sealed.

16.30.180 Section 404.10 amended; Minimum burial depth.

Section 404.10 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

404.10 Minimum burial depth. Metallic underground piping systems shall be installed a minimum depth of 18 inches (458 mm) below grade and plastic piping systems shall be 24" (710 mm), except as provided for in Section 404.9.1.

16.30.200 Section 406.4.1 amended; Test pressure.

Section 406.4.1 of the Fuel Gas Code, adopted at Section 16.30.010 is amended to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but not less than 10 psig (20 kPa gauge) for a minimum of 15 minutes, irrespective of design pressure. For medium pressure gas and welded gas lines, the minimum test pressure shall be 60 psig for a minimum of 30 minutes. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 per cent of the specified minimum yield strength of the pipe.

16.30.220 Section 406.4.2 deleted; Test duration.

Section 406.4.2 of the Fuel Gas Code, adopted at Section 16.30.010 is deleted in its entirety:

16.30.240 Section 621 deleted; Unvented room heaters.

Section 621 of the Fuel Gas Code, adopted at Section 16.30.010 shall be deleted in its entirety.

Section 10. Chapter 16.36, Fire Code, is hereby re-enacted as follows:

Chapter 16.36

Fire Code

16.36.010 International Fire code.

The International Fire Code, 2009 Edition is hereby adopted by reference for the City, except as amended in this chapter, and is hereinafter referred to as the Fire Code. The Fire Code is published by the International Code Council, Inc., 5360 Workman Mill Road, Whittier, California, 90601-2298. The Fire code shall establish the minimum requirements consistent with nationally recognized good practice for providing a reasonable level of life safety and property protection from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures and premises and to provide safety to fire fighters and emergency responders during emergency operations.

16.36.015 Additions, Deletions, and Amendments to Fire Code designated.

Sections 101.1, 102.3, 102.4, 102.7, 104.1.1, 105.6.3.1, 108.1, 109.3, 111.4, 903.2.8, 3204.3.1.1, 3301.1.3, 3404.2.9.6.1, 3406.3.1, 3406.3.1.1, 3406.3.1.2, 3406.3.1.3.1, 3406.3.1.3.2, 3804.2.1 and

3804,3.2 of the Fire Code are hereby enacted as amended, added, or deleted to read as set out in Sections 16.36.020 through 16.10.400.

16.36.020 Section 101.1 amended; Title.

Section 101.1 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

101.1 Title. These regulations shall be known as the Fire Code of the City of Greeley hereinafter referred to as the “Fire Code”.

16.36.040 Section 102.3 amended; Change of use or Occupancy.

Section 102.3 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

102.3 Change of use or Occupancy. The provisions of the Fire Code and all currently adopted building codes shall apply to all buildings undergoing a change of occupancy.

16.36.060 Section 102.4 amended; Application of building code.

Section 102.4 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

102.4 Application of building code. The design and construction of new structures shall comply with the fire code and all currently adopted building codes. Repairs, alterations and additions to existing structures shall comply with the fire code and all currently adopted building codes.

16.36.080 Section 102.7 amended; Referenced codes and standards.

Section 102.6 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

102.7 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 45 except that references to the national Fire Protection Association standards shall refer to the most current edition of such standard and all references to the ICC Electrical Code shall mean the currently adopted electrical code. Such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply.

16.36.100 Section 104.1.1 added; Building Safety Unit personnel and police.

Section 104.1.1 of the Fire Code, adopted at Section 16.36.010 is added to read as follows:

Section 104.1.1 Building Safety Unit personnel and police. The chief and members of the fire prevention bureau shall have the powers of a police officer, to issue a Notice of Violation, and in performing their duties under this code. When requested to do so, the Chief of Police is authorized to assign such available police officers as necessary to assist the fire department and Building Safety Unit personnel in enforcing the provisions of this code.

16.36.120 Section 105.6.30 amended; Open Burning.

Section 105.6.30 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

105.6.30 Open Burning. An operational permit is required from the City, for the kindling or maintaining of an open fire or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall be adhered to.

Exception: Recreational fires to include controlled fires in commercially manufactured “fire pits” and “chimineas” located at least 15 feet from a structure, constantly attended, and an adequate method of extinguishment readily available. Must also comply with Clean Air Laws.

16.36.140 Section 108.1 amended; Appeals process.

Section 108.1 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

108.1 Appeals process. All appeals shall first be made in writing to the Fire Marshal. A subsequent appeal to the Fire Marshal’s decision shall be made in writing to the Fire Chief. An appeal to the Fire Chief’s decision shall be made in writing to the City of Greeley Construction Trades Advisory and Appeals Board. All decisions and findings shall be rendered in writing to the appellant with a duplicate copy filed in the Office of the Fire Marshal. Rulings by the City of Greeley Construction Trades Advisory and Appeals Board shall be final.

16.36.160 Section 109.3 amended; Violation penalties.

Section 109.3 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

109.3 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a misdemeanor, and subject to the sentencing guidelines of Chapter 1.33 of the Greeley Municipal Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

16.36.180 Section 111.4 amended; Failure to comply.

Section 111.4 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be guilty of a misdemeanor, and subject to the sentencing guidelines of Chapter 1.33 of the Greeley Municipal Code.

16.36.200 Section 903.2.8 amended; Group R.

Section **903.2.8** of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

903.2.8 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exception:

1. One- and two-family dwelling units unless otherwise required based upon fire flow, fire apparatus access, to include “gated communities”, or other life safety hazard as deemed by the fire code official.

16.36.220 Section 3204.3.1.1 amended; Location.

Section 3204.3.1.1 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

3204.3.1.1.3 Location. Stationary containers shall be located in accordance with Section 3203.6. Containers of cryogenic fluids shall not be located within diked areas containing other hazardous materials.

Storage of flammable cryogenic fluids in stationary containers outside of buildings is prohibited except in those areas zoned industrial.

16.36.206 Section 3404.2.9.6.1 amended; Locations where above ground tanks are prohibited.

Section 3404.2.9.6.1 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

3404.2.9.6.1 Locations where above ground tanks are prohibited. Storage of Class I and II liquids in above-ground tanks outside of buildings shall be prohibited except in those areas zoned C-L, C-H, I-L, I-M, I-H, H-A, and PUD subject to the approval of the fire code official.

16.36.280 Section 3406.3.1 amended; Location.

Section 3406.3.1 of the Fire Code, adopted at Section 16.36.010 is amended to read as follows:

3406.3.1 Location. The location of oil and natural gas operations shall be in accordance with Safety Regulations of the Colorado Oil and Gas Conservation Commission and the City of Greeley Development Code. Setbacks contained therein shall apply to new and existing oil and gas operations.

16.36.300 Section 3406.3.1.1 deleted; Storage tanks and sources of ignition.

Section 3406.3.1.1 Storage tanks and sources of ignition shall be deleted in its entirety.

16.36.320 Section 3406.3.1.2 deleted; Streets and railways.

Section 3406.3.1.2 Streets and railways shall be deleted in its entirety.

16.36.340 Section 3406.3.1.3.1 deleted; Group A, E, or I buildings.

Section 3406.3.1.3.1 Group A, E, or I buildings shall be deleted in its entirety.

16.36.360 Section 3406.3.1.3.2 deleted; Existing wells.

Section 3406.3.1.3.2 Existing wells shall be deleted in its entirety.

16.36.380 Section 3804.2.1 added; Maximum capacity with limits in residential areas.

Section 3804.2.1 of the Fire Code, adopted at Section 16.36.010 shall be added as follows:

3804.2.1 Maximum capacity with limits in residential areas. The storage and use of liquefied petroleum gas in residential areas for barbeques, RV's or other recreational uses shall be limited to portable containers of 10 gallon water capacity or less per dwelling unit. The total amount to be allowed in storage or use shall be limited to 20 gallons water capacity per dwelling unit.

16.36.400 Section 3804.3.2 added; Structure fuel containers.

Section 3804.3.2 of the Fire Code, adopted at Section 16.36.010 shall be added as follows:

3804.3.2 Structure fuel containers. Containers used to fuel structures shall be prohibited where a natural gas utility is available for such purposes within 1000 feet of the structure.

Section 11. This ordinance shall become effective January 1, 2010.

PASSED AND ADOPTED, SIGNED AND APPROVED, THIS ____ DAY OF _____, 2009.

ATTEST:

THE CITY OF GREELEY

City Clerk

Mayor