

AN ORDINANCE RELATING TO BUILDING, PLUMBING, ELECTRICAL CODES ~~ADOPTING BY REFERENCE THE UNIFORM BUILDING CODE, 1970 EDITION, VOLUME 1, PUBLISHED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, 50 SOUTH LOS ROBLES, PASADENA, CALIFORNIA, 91101, EXCEPT AS AMENDED, ALTERED, AND AS DELETED HEREIN; THE COLORADO STATE DEPARTMENT OF PUBLIC HEALTH PLUMBING REGULATIONS EFFECTIVE OCTOBER 28, 1953 AND AMENDED TO SEPTEMBER 10, 1969, AS ISSUED BY THE COLORADO STATE DEPARTMENT OF PUBLIC HEALTH, 4210 EAST 11TH AVENUE, DENVER, COLORADO; THE 1968 NATIONAL ELECTRICAL CODE, STANDARD OF THE NATIONAL FIRE PROTECTION ASSOCIATION 60 BATTERY MARCH STREET, BOSTON, MASSACHUSETTS, 02110, EXCEPT AS AMENDED, ALTERED, AND DELETED HEREIN; THE UNIFORM MECHANICAL CODE, 1970 EDITION, ALSO KNOWN AS VOLUME II OF THE UNIFORM BUILDING CODE, PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, 5032 ALHAMBRA AVENUE, LOS ANGELES, CALIFORNIA 90032, AND THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, 50 SOUTH LOS ROBLES, PASADENA, CALIFORNIA, 91101, EXCEPT AS AMENDED, ALTERED, AND AS DELETED HEREIN; AND REPEALING ORDINANCES IN CONFLICT THEREWITH.~~

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

SECTION 1. Chapter 15.08 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

CHAPTER 15.08 UNIFORM BUILDING CODE

(1) Section 15.08.010 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.08.010 Uniform building code adopted by reference. The Uniform Building Code, 1970 Edition, Volume 1, published by the International Conference of Building Officials, 50 South Los Robles, Pasadena, California, 91101; is adopted by reference as printed in total except as modified in this chapter.

(2) Section 15.08.020 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.08.020 UBC Sec. 103 added to. Add to Section 103 the following: Chapters 13, 23, 38, 48, 49 and 57 of the Appendix are herewith specifically adopted.

(3) Section 15.08.030 Golden Revised Ordinances of 1965 is hereby adopted as published.

(4) Section 15.08.040 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.08.040 UBC Sec. 105 added to. Add to Section 105 the following: Such buildings shall also comply with the requirements of Chapter 15.20 Golden Revised Ordinances of 1965.

(5) Section 15.08.041 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:

15.08.041 UBC Sec. 202 (C) deletion from. Delete from Section 202 (C) the last paragraph thereof.

(6) Section 15.08.042 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:

15.08.042 UBC Sec. 205, substitution. Delete Section 205 and replace same to read as follows: Violations and penalties shall be as prescribed in Chapter 15.24 Golden Revised Ordinances of 1965.

(7) Section 15.08.050 Golden Revised Ordinances of 1965 is hereby adopted as published excepting the deletion of the words "or demolish".

- (8) Section 15.08.060 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (9) Section 15.08.070 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (10) Section 15.08.080 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (11) Section 15.08.090 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (12) Section 15.08.100 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.08.100 UBC Sec. 302 (a), substitution. Delete Section 302 (a) and replace same to read as follows:

Section 302 (a) Issuance. The application, plans, and specifications filed by an applicant for a permit shall be checked by the Building Official except as hereinafter noted. Such plans may be reviewed by other departments of the City to check compliance with the laws and ordinances under their jurisdiction. If the Building Official is satisfied that the work described in an application for permit and the plans filed therewith conform to the requirements of this Code and other pertinent laws and ordinances, and that the fee or fees specified in Section 303 have been paid, he shall issue a permit therefor to the applicant.

EXCEPTION:

When the applicant for a building permit is a governmental agency, either federal, state, county, municipal, or any division thereof, such permit will be issued only if a building permit fee and a plan-checking fee are paid the City as specified in Section 303 (a) and 303 (d). If such fees are not paid, the Building Official shall not check the plans and specifications for conformity with this code, but shall check the same for conformity with the zoning ordinance and, if not in conflict with said ordinance, shall issue a letter of approval with authorization to proceed with construction under federal or state law. The Building Official may require such information as he may deem necessary for the issuance of a letter of approval. No plumbing, electrical or mechanical permits shall be issued for any governmental building authorized by letter of approval in lieu of a building permit.

When the Building Official issues a building permit, he may endorse in writing or stamp on both sets of plans and specifications "Approved". Such approved plans and specifications shall not be changed, modified, or altered without authorization from the Building Official, and all work shall be done in accordance with the approved plans.

The Building Official may issue a permit for the construction of part of a building or structure before the entire plans and specifications for the whole building or structure have been submitted or approved provided adequate information and detailed statements have been filed complying with all pertinent requirements of this Code. The holder of such permit shall proceed at his own risk without assurance that the permit for the entire building or structure will be granted.

The application filed by an applicant for an electrical, plumbing or mechanical permit shall be checked by the Building Official. If the Building Official is satisfied that the work described on such application for permit conforms to the requirements of the appropriate code and other pertinent laws and ordinances and that the fees specified in Section 303 have been paid, he shall issue a permit therefor to the applicant.

No electrical, plumbing or mechanical permits shall be checked or approved by the Building Official unless detailed plans and specifications of the proposed work have been submitted with the application and unless said detailed plans and specifications bear the seal of an architect or engineer registered in the State of Colorado; this requirement shall not be applicable to residential buildings containing no more than four dwelling units each nor to group 'J' occupancies.

- (13) Section 15.08.110 Golden Revised Ordinances of 1965 is hereby repealed.
- (14) Section 15.08.120 Golden Revised Ordinances of 1965 is hereby adopted as published except that Table 3B of UBC Section 303, is repealed and re-enacted as follows:

TABLE 3B - ELECTRICAL PERMIT FEES

<u>WORK</u>	<u>FEE</u>
Service entrance (new, change or temporary)	\$1.00 each
Individual Circuits	1.00 each
Signs (neon or incandescent)	3.00 each
Motors: 3 H.P. and under	1.00 each
Over 3 H.P. and under 30 H.P.	5.00 each
Over 30 H.P.	10.00 each
Minimum Fee	3.00

- (15) Section 14.08.120 Golden Revised Ordinances of 1965 is amended by the addition of Section 303 (d) to UBC Section 303 to read as follows:

Section 303 (d) Plan-Checking Fees. When the valuation of the proposed construction exceeds \$75,000.00 or the building exceeds two stories in height or more than 6000 square feet in ground floor area and a plan is required to be submitted by Section 301, a plan-checking fee shall be paid to the Building Official at the time of submitting plans and specifications for checking. Said plan-checking fee shall be equal to one-half of the building permit fee as set forth in Table No. 3-A.

- (16) Section 15.08.130 Golden Revised Ordinances of 1965 is hereby repealed.
- (17) Section 15.08.140 Golden Revised Ordinances of 1965 is hereby repealed.
- (18) Section 15.08.150 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.08.150 UBC Sec. 304 (a), substitution. Delete Section 304 (a) and add the following in its place:

Section 304 (a) General. All construction or work for which a permit is required shall be subject to inspection by the Building Official, and certain types of construction shall have continuous inspection by special inspectors, as specified in Section 305.

EXCEPTION:

Governmental buildings for which no building permit has been issued per Section 302 (a) but have been authorized by letter of approval shall receive no building inspection services from the City. Those governmental buildings receiving a building permit for which a building permit fee and a plan-checking fee have been received by the City shall have a full time inspector hired by the owner and approved by the architect or engineer of the building for which the permit was issued; such inspector shall be responsible for the inspections and other duties required by Sections 304 and 305 of this code.

A survey of the lot may be required by the Building Official to verify compliance of the structure with the approved plans.

- (19) Section 15.08.160 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.160 UBC Sec. 402, change in definition of alley. In the ALLEY definition change the words "less than 16 feet" to read "20 feet or less".
- (20) Section 15.08.170 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.170 UBC Sec. 402, substitution. In the APARTMENT HOUSE definition of Section 402, change "three or more" to "five or more".
- (21) Section 15.08.180 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (22) Section 15.08.181 is hereby added to Golden Revised Ordinances of 1965 to read as follows:
- 15.08.181 UBC Sec. 408 added to. Add to Section 408 the following definition:
- GOVERNMENTAL BUILDING is a building or structure owned by the United States of America, the State of Colorado, the County of Jefferson or the City of Golden, and all agencies and departments thereof. Such buildings shall be devoted exclusively to governmental use. Applicable statutes pertaining to such buildings in conflict with any provisions of City of Golden ordinances shall take precedence over such conflicting ordinance.
- (23) Section 15.08.190 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.190 UBC Sec. 420, substitution. In the STREET definition of Section 420, change the words "not less than 16 feet" to read "more than 20 feet".
- (24) Section 15.08.200 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (25) Section 15.08.210 Golden Revised Ordinances of 1965 is hereby repealed.
- (26) Section 15.08.220 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.220 UBC Section 2902 (a) added to. Add as the second sentence of the second paragraph of Section 2902 (a) the following: The maximum height of cut on any slope shall not exceed 12 feet. Also add to the last paragraph of Section 2902 (a) the following: Said soil investigation report and report of satisfactory placement of fill shall be issued under the seal and signature of a soils engineer.
- (27) Section 15.08.221 is hereby added to Golden Revised Ordinances of 1965 to read as follows:
- 15.08.221 UBC Section 2902 (b) repealed and re-enacted. Section 2902 (b) is repealed and re-enacted to read as follows: Any person making or causing an excavation to be made shall protect the excavation so that the soil of adjoining property will not cave in or settle and shall be liable for the expense of underpinning or extending the foundation of buildings on adjoining properties where the stability of such adjoining buildings may be adversely affected as the result of such excavation.
- (28) Section 15.08.222 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- 15.08.222 UBC Section 2903 (a) partial deletion and addition to. Delete the last sentence of Section 2903 (a) and add the following: The Building Official may require that this determination be made by an engineer licensed by the State to practice as such and qualified as a soils engineer. A soil report shall be mandatory for any building sites within a new subdivision or for any building sites in existing subdivisions where soil problems are known to have caused foundation difficulties in adjoining or nearby buildings. In new subdivisions the Building

Official may require that the developer furnish a report prepared by an engineering geologist; said report to include an adequate description of the geology of the subdivision, conclusions and recommendations regarding the effect of geologic conditions on the subdivision, and opinions and recommendations covering the adequacy of building sites, street construction and drainage facilities as they may be affected by the grading plan of the subdivision.

- (29) Section 15.08.223 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- Section 15.08.223 UBC Section 2903 (c) added to. Add to Section 2903 (c) sentence "6." to read as follows: 6. Date when field test data was procured and any known seasonal fluctuations of such data.
- (30) Section 15.08.224 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- 15.08.224 UBC Section 2903 (d), substitution. In the first sentence of Section 2903 (d) change the word "may" to "shall" and change the word "due" to "caused by".
- (30) Section 15.08.225 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- 15.08.225 UBC Section 2903 (f) deletion and re-enacted. Delete Section 2903 (f) and re-enact same to read as follows: (f) Exemptions. The foregoing provisions may be waived by the Building Official for minor buildings or structures.
- (32) Section 15.08.226 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- 15.08.226 UBC Section 2905 (a) added to. Add to Section 2905 (a) the following: Frost line shall be established as 36 inches.
- (33) Section 15.08.227 is hereby added to the Golden Revised Ordinances of 1965 to read as follows:
- 15.08.227 UBC Section 2907 (b), substitution. In the last sentence of Section 2907 (b) change the words "an approved agency" to "a soils engineer".
- (34) Section 15.08.230 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.230 UBC Chapter 29, change in Table 29A. In Table 29A of Chapter 29 change all figures in the last column to "thirty-six inches". Change minimum thickness of foundation walls and footings from "six inches" or "seven inches" to "eight inches".
- (35) Section 15.08.240 Golden Revised Ordinances of 1965 is hereby repealed.
- (36) Section 15.08.250 Golden Revised Ordinances of 1965 is hereby repealed.
- (37) Section 15.08.260 Golden Revised Ordinances of 1965 is hereby repealed.
- (38) Section 15.08.270 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.270 UBC Sec. 2305 (c) added to. Add to Section 2305 (c) the following: Roof live load caused by snow shall be established as 30 pounds per square foot.
- (39) Section 15.08.280 Golden Revised Ordinances of 1965 is hereby repealed.
- (40) Section 15.08.290 Golden Revised Ordinances of 1965 is hereby adopted as published.
- (41) Section 15.08.300 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:
- 15.08.300 UBC Sec. 3207 (e) deleted. Section 3207 (e) is hereby deleted.

(42) Section 15.08.310 Golden Revised Ordinances of 1965 is hereby repealed.

SECTION 2. Chapter 15.12 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

CHAPTER 15.12 ELECTRICAL CODE

(1) Section 15.12.010 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.010 Uniform Electrical Code adopted by reference. The 1968 National Electrical Code, standard of the National Fire Protection Association, 60 Batterymarch Street, Boston, Mass., 02110, be and the same is hereby adopted by reference in total except as follows in this chapter.

(2) Section 15.12.011 is hereby added to Golden Revised Ordinances of 1965 to read as follows:

15.12.011 Electrical Code Sec. 90-11 added. Section 90-11 is added to the electrical code to read as follows:

Section 90-11 License. No person shall engage in or work at the business, trade, or calling of a journeyman electrician or of a master electrician in the City of Golden until he shall have received from the State Electrical Board a license as provided by Chapter 142, Article 2, Colorado Revised Statutes of 1963, Volume 7, as amended.

(3) Section 15.12.012 is hereby added to Golden Revised Ordinances of 1965 to read as follows:

15.12.012 Electrical Code Sec. 90-7 added. Section 90-7 is added to the electrical code to read as follows:

Section 90-7 The Building Official is hereby authorized and directed to enforce all provisions of this code.

(4) Section 15.12.013 is hereby added to Golden Revised Ordinances of 1965 to read as follows:

15.12.013 Electrical Code Sec. 110-24 added. Section 110-24 is added to the electrical code to read as follows:

Section 110-24 Emergency Disconnection. In case of emergency, where necessary for safety to persons or property, or where electrical equipment may interfere with the work of the fire department, the Building Official shall have the authority to disconnect immediately without notice, or cause the immediate disconnection of any electrical equipment.

(5) Section 15.12.020 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.020 Electrical Code Sec. 110-23 added. Section 110-23 is added to the electrical code to read as follows:

Section 110-23 General Installation Requirements.

(a) Electrical wiring shall not be installed inside of buildings until the interiors of such buildings have been physically protected from the weather.

(b) Buildings, dwellings, and premises shall be wholly and completely wired, equipped, and approved for electrical service before connecting to or being supplied by a source or supply of

electricity. Except that electric meters will be released for temporary heat; this meter to be used only for the purpose of supplying a circuit to the furnace system and one receptacle for tools.

- (c) No electricity supply agency shall render service to any occupancy, building or structure until a final electrical inspection has been made and a release given to such agency by the Building Official or his designated assistant.

(6) Section 15.12.030 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.030 Electrical Code Sec. 110-8 added to Paragraphs (a),(b),(c),(d), and (e) are added to Section 110-8 to read as follows:

- (a) All electrical wiring methods used within or on all buildings hereafter erected and all alterations in and additions to such wiring in or on buildings now existing shall be type MI cable, approved raceway system and/or approved multi-outlet assemblies, except that this provision shall not apply to private residences, residential accessory buildings, nor to the individual residential quarters of any apartment type building.
- (b) All electrical wiring within or on all buildings hereafter erected which are used as a combination of living quarters, and business, commercial, and/or industrial establishments, and alterations and additions to such wiring in or on such existing buildings shall be installed in approved raceway systems, type MI cable, and/or approved multi-outlet assemblies.
- (c) All electrical wiring for motors larger than two (2) horsepower within or on any residential occupancy shall be installed in approved raceway systems.
- (d) All electrical service entrance conductors within or on any and all buildings hereafter erected and within or on all existing buildings hereafter altered, extended, revised, or remodeled, or on which the electrical wiring is altered, extended, revised, or remodeled shall be installed in rigid metal raceway or in electrical metallic tubing, or metal enclosed bus duct. Such raceways and bus ducts shall extend from the service head to the service entrance switch or switches and shall be of sufficient size for the connected load, but in no case shall such raceways be smaller than that required for minimum service wire size per Section 230-41 and Table 1 or 1A of Chapter 9.
- (e) All electrical wiring installed on the outside surface of any building shall be run in an approved and properly grounded metal raceway.

(7) Section 15.12.040 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.040 Electrical Code Sec. 210-24 (a) added to.

Add to Section 210-24 (a) a paragraph to read as follows:

Not more than ten (10) current consuming outlets shall be connected to a 20 ampere, general-use branch circuit and not more than eight (8) on a 15 ampere general-use circuit and not more than four (4) on a 20 ampere appliance circuit.

- (8) Section 15.12.050 Golden Revised Ordinances of 1965 is hereby repealed.
- (9) Section 15.12.060 Golden Revised Ordinances of 1965 is hereby repealed.
- (10) Section 15.12.070 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.070 Electrical Code Sec. 230-70 (a) added to. Add to Section 230-70 (a) a paragraph to read as follows:

Each set of service entrance conductors shall be provided with a readily accessible means of disconnecting all conductors from the source of supply. Service entrance switches or any service equipment shall not be installed within a bathroom, toilet, closet, or cabinet. Such service equipment may be installed in utility rooms, machinery rooms, and storage rooms, if a clear space void of all obstacles is provided. All service switches of whatever capacity or potential shall be installed at a location as near the point of entrance of service conductors as may be possible, considering the character of buildings and accessibility in case of fire or other reasons for opening the switch and disconnecting the premises from the source of supply.

- (11) Section 15.12.080 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.080 Electrical Code Section 230-41 added to. Add to Section 230-41 a paragraph to read as follows:

All individual residences hereafter erected or all existing individual residences in or on which electrical service is altered, extended, or remodeled shall be served with a minimum of 100 ampere, three wire service.

- (12) Section 15.12.090 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.090 Electrical Code Section 230-44 added to. Add to Section 230-44 a sub-section (c) to read as follows:

(c) Service entrance conductors shall not be run a distance greater than twenty feet within buildings, unless provided with automatic over-current protection at their outer ends; where automatic over-current protection is not provided at the outer ends, service entrance conductors shall be installed in approved metal raceway.

- (13) Section 15.12.100 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted to read as follows:

15.12.100 Electrical Code Section 240-25 added to. Add to Section 240-25 a sub-section (g) to read as follows:

(g) Tie-bars. Tie-bars used to connect circuit breakers together shall be of a type designed for and approved for the purpose.

- (14) Section 15.12.110 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.110 Electrical Code Section 422-5 added to. Add to Section 422-5 sub-section (c) and (d) to read as follows:

(c) Any fixed electrical appliance rated at over 50% of the circuit rating shall be supplied by a separate individual circuit.

- (d) Conductors supplying any type of cooking unit and/or oven shall be of sufficient size for the range connected, but in no case shall be smaller than the following:

<u>Range Type and Size</u>	<u>Phase Conductor</u> (Ungrounded)	<u>Neutral Conductor</u> (Grounded)
Built-in, 8 3/4 KW or larger	# 6	# 8
Built-in, 5 KW to 8 3/4 KW	# 8	#10
Built-in, less than 5 KW	#10	#10
Freestanding	# 6	# 8
Freestanding, apartment size	# 8	#10

Built-in ranges having independent oven and counter-top cooking units shall have separate individual circuits.

The ampacity of conductors serving a household electric range, a wall mounted oven or a counter mounted cooking unit shall not be less than the kilowatt demand of such devices and shall conform to the requirements of Section 210-19 of the Electrical Code.

- (15) Section 15.12.120 Golden Revised Ordinances of 1965 is hereby repealed.
- (16) Section 15.12.130 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.130 Electrical Code Section 210-25 amended. Amend the table in Section 210-25 so that the minimum size of conductor for a 15 AMP circuit is changed from #14 to #12.

- (17) Section 15.12.140 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.140 Electrical Code Section 730-27 added. Add a Section 730-27 to read as follows:

Weather proofing. (a) Conduits, boxes and other enclosures designed to be used where exposed to the weather shall be equipped with approved gaskets and covers.

(b) All staples, screws, straps, braces, hangers, supports, fasteners, and similar equipment shall be galvanized, plated or covered with an approved finish to prevent corrosion (see the requirements of NEC Section 300-5 for general regulations regarding corrosion protection).

- (18) Section 15.12.150 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.12.150 Electrical Code Section 730-28 added. Add a Section 730-28 to read as follows:

Temporary Installations: Temporary lighting and power installations shall have all wiring and equipment completed before connection is made to the temporary service equipment by the electricity supply agency. All such wiring shall meet clearances and other requirements of this code.

- (19) Section 15.12.160 Golden Revised Ordinances of 1965 is hereby repealed.
- (20) Section 15.12.170 Golden Revised Ordinances of 1965 is hereby repealed.
- (21) Section 15.12.180 Golden Revised Ordinances of 1965 is hereby repealed.

SECTION 3. Chapter 15.16 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

CHAPTER 15.16 UNIFORM PLUMBING CODE

- (1) Section 15.16.010 Golden Revised Ordinances of 1965 is hereby repealed and re-enacted as follows:

15.16.010 Uniform code adopted by reference. The Colorado State Department of Public Health Plumbing regulations as issued by the Colorado State Department of Public Health, 4210 East 11th Avenue, Denver, Colorado, effective October 28, 1953 and amended to September 10, 1969, be and the same is hereby adopted by reference in its entirety.

SECTION 4. Chapter 15.17 Golden Revised Ordinances of 1965 is hereby enacted as follows:

CHAPTER 15.17 UNIFORM MECHANICAL CODE

- (1) Section 15.17.010 Uniform mechanical code adopted by reference. The Uniform Mechanical Code, 1970 Edition, also known as Volume II of the Uniform Building Code, published by the International Association of Plumbing and Mechanical Officials, 5032 Alhambra Avenue, Los Angeles, California, 90032, and the International Conference of Building Officials, 50 South Los Robles, Pasadena, California, 91101, is adopted by reference as printed in total except as modified in this chapter. Appendix B is herewith specifically adopted.
- (2) Section 15.17.020 Violations and penalties. Delete the second paragraph of UMC Section 202 and replace same to read as follows: Violations and penalties shall be as prescribed in Chapter 15.24 Golden Revised Ordinances of 1965.
- (3) Section 15.17.030 UMC Section 203 deleted - Board of Adjustment created. Delete UMC Section 203 and replace same to read as follows: In order to determine the suitability of alternate materials and types of construction and to provide for reasonable interpretations of the provisions of this code, the board of adjustment as created by Chapter 18.12 of the Golden Revised Ordinances of 1965, shall hear and decide such appeals in the manner as set forth in said chapter, and further shall hear all matters of appeal from decisions of the building official pertaining to the mechanical code.
- (4) Section 15.17.040 UMC Section 302 (b) 1 added to. Add to Section 302 (b) 1 so that it reads as follows: 1. Any Group A,B,C,D,E,F,G, or H Occupancy.
- (5) Section 15.17.050 UMC Section 302 (b) added to. Add to Section 302 (b) a subsection 11 to read as follows: 11. Plans and specifications which require the seal and signature of an engineer or architect shall bear a statement attested by such engineer or architect that said plans and specifications conform to the provisions of this code.
- (6) Section 15.17.060 UMC Section 304, substitution. Delete Section 304 and replace same to read as follows:

Section 304 Any person desiring a permit required by this Code, shall, at the time of filing an application therefor, pay a fee as required by this section.

SCHEDULE OF FEES FOR MECHANICAL PERMITS

<u>Valuation of Work</u>	<u>Permit Fee</u>
\$600 or less (minimum fee)	\$ 3.00
\$601 to \$800	4.00
\$801 to \$1500	6.00
\$1501 to \$2000	8.00
\$2001 to \$3000	10.00
\$3001 to \$4000	12.00
\$4001 to \$5000	14.00
\$5001 to \$6000	16.00
\$6001 and over.....	\$16.00 plus \$1.00 per \$1000 valuation in excess of \$6000.

- (7) Section 15.17.060 UMC Section 305 added to. Following the first sentence of Section 305 add a paragraph to read as follows:

EXCEPTION: Equipment for which a permit is obtained where the plans and specifications have been prepared by an engineer or architect as provided in Section 302 (b) shall, when required by the Building Official, be inspected during construction and on final inspection by a special inspector employed by the owner or his agent; said special inspector shall be approved by the Building Official and the engineer or architect responsible for the preparation of the mechanical plans and specifications. The special inspector shall furnish inspection for such periods and at such times as the engineer, architect, or Building Official may determine; he shall report to the Building Official in writing, noting all code violations and other information as required.

- (8) Section 15.17.061 UMC Section 305 added to. Add the following as a second exception to the fourth paragraph:

EXCEPTION: In case of illness or similar emergency or at times when the Building Official's office is closed, equipment may be connected and the Building Official so notified at the beginning of his next regular work day; such equipment shall only be connected when the representative of the utility company supplying fuel or power has satisfied himself as to the safety of making such connection.

- (9) Section 15.17.062 UMC Section 508 added to. Add to the second paragraph of Section 508 the following:

If the garage floor level is below the highest level of the driveway leading to the garage, measurement shall be made from such highest level unless adequate openings exist in the garage wall at floor level, and above grade, so as to permit gasoline vapors to drain off the garage floor.

- (10) Section 15.17.063 UMC Section 2201 addition to. Add to Section 2201 the following words:

", other than service piping and mains."

- (11) Section 15.17.064 UMC Section 2202 additions to. Add to the fourth paragraph of Section 2202 so that it reads as follows:

Gas Piping System is any arrangement of gas piping supplied by one meter and each arrangement of gas piping serving a building, structure or premises whether individually metered or not but excluding service piping.

- (12) Section 15.17.065 UMC Section 2202 partial deletion and substitution. Delete the fifth paragraph of Section 2202 and substitute the following to read:

Gas Utility is the public utility duly franchised or authorized to supply and distribute gas.

- (13) Section 15.17.066 UMC Section 2202 deletion and substitution. Delete the seventh paragraph of Section 2202 and substitute the following to read:

Service Piping is the piping and equipment downstream of the gas main which is installed by and under the control of the gas utility.

- (14) Section 15.17.067 UMC Section 2203 addition to. Add to the first paragraph of Section 2203 the following words to read:

", or when deemed, by the gas utility, to be a hazard to human life."

- (15) Section 15.17.068 UMC Section 2206 (a) addition to. Following the second paragraph of Section 2206 (a) add the following to read:

EXCEPTION. The requirement for inspection prior to covering pipe shall not apply to underground piping which has been plowed in or installed by the injection method.

- (16) Section 15.17.069 UMC Section 2206 (b)2 deletion and substitution. Delete Section 2206 (b) 2 and substitute the following:

2. Final Piping inspection. Before any system of gas piping is finally put in service, it shall be carefully tested to assure that it is gas tight. Where any part of the system is to be enclosed or concealed, this test should precede the work of closing in. The test for tightness, the piping may be filled with the fuel gas, air or inert gas, but not with any other gas or liquid. OXYGEN SHALL NEVER BE USED.

- (a) Before appliances are connected, piping systems shall stand a pressure of at least six inches mercury or three pounds gage for a period of not less than ten minutes without showing any drop in pressure. Pressure shall be measured with a mercury manometer or slope gage, or an equivalent device so calibrated as to be read in increments of not greater than one-tenth pound. The source of pressure shall be isolated before the pressure test is made.
- (b) Systems for undiluted liquefied petroleum gases shall stand the pressure test in accordance with (a) above or, when appliances are connected to the piping system, shall stand a pressure of not less than ten inches water column for a period of not less than ten minutes without showing any drop in pressure. Pressure shall be measured with a water manometer or an equivalent device so calibrated as to be read in increments of not greater than one-tenth inch water column. The source of pressure shall be isolated before the pressure tests are made.
- (c) Except for the systems covered above, the test pressure to be used shall be no less than $1\frac{1}{2}$ times the proposed maximum working pressure; but not less than 3 psig, irrespective of design pressure. When the test pressure exceeds 125 psig, and air or an inert gas is used as the test medium, the test pressure shall not exceed a value which produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. When the piping system is connected to equipment or appliances having components designed for operating pressures of less than the test pressure, such equipment or appliances shall be disconnected or the components temporarily removed during the test period.

- (17) Section 15.17.070 UMC Section 2207 deletion. Delete Section 2207.

- (18) Section 15.17.071 UMC Section 2209 (a) partial deletion. Delete from Section 2209(a) the following words:

"or the gas utility"

- (19) Section 15.17.072 UMC Section 2211 (a) delete and substitute. Delete Section 2211(a) and substitute the following:

Section 2211 (a) General. Meter locations shall be mutually agreed upon by the Gas Utility and the customer. The location shall meet fire prevention regulations.

- (20) Section 15.17.073 UMC Section 2211 (b) delete and substitute. Delete Section 2211(b) and substitute the following:

(b) Multiple Meters. Where more than one meter is set on a particular premises, they shall all be set in one location, except where this is impractical, and except in trailer or mobile home courts or planned developments. In multiple meter installations, each separate gas piping system shall be identified by the permittee.

(21) Section 15.17.075 UMC Sections 2211 (e) and 2211 (f) deletion. Delete Sections 2211 (e) and 2211 (f).

(22) Section 15.17.076 UMC Section 2212 additions. Add to the first paragraph of Section 2212 the following:

Steel tube with wall thickness of not less than .035 inches or internally tinned copper tubing may be used when installed with approved fittings. Plastic pipe or tubing meeting the standards of this code may be used for outside underground installations only.

(23) Section 15.17.077 UMC Section 2212 addition. Add to the second paragraph of Section 2212 after the word "pipe" the words "or tube".

(24) Section 15.17.078 UMC Section 2212 deletion and substitution. Delete the third paragraph of Section 2212 and substitute the following:

All fittings used in connection with the above ferrous or non-ferrous pipe or tube shall be malleable iron or steel, or yellow brass (containing not more than 75 percent copper). All threaded pipe fittings shall be tapped tapered.

(25) Section 15.17.079 UMC Section 2213 (a) addition to. Add to Section 2213 (a) the following:

Tubing joints in ferrous and non-ferrous metallic materials shall be made with flared tubing fittings, or welded or brazed with a material having a melting point in excess of 1000° F. Plastic pipe or tube joints shall be solvent welded using approved fittings, or other approved methods.

Joints between pipe and tube or between dissimilar materials shall be approved types. Joints between ferrous and non-ferrous pipe or tube where such joints are located underground shall separate the dissimilar metals with the use of an approved dielectric type connector.

(26) Section 15.17.080 UMC Section 2213 (d) partial deletion and substitution. Delete the last sentence of the first paragraph of Section 2213 (d) and substitute the following:

Risers shall be protected from corrosion to a point at least 6 inches above grade.

Also delete the second sentence of the second paragraph of Section 2213 (d) and substitute the following:

Hand field wrapping shall provide equivalent protection and is restricted to those short sections necessarily stripped for threading or welding and to the fittings.

(27) Section 15.17.081 UMC Section 2213 (e) addition to. Following the first sentence of Section 2213 (e) add the following:

Tubing shall be substantially supported at intervals of not more than four feet. Such support shall not be of aluminum or combustible material. Tubing on new installations, when confined by building structure such as passage through holes in plates, studs, or joints shall be protected at such points by ferrons shields such as steel conduit or tubing of not less than .035 inches wall thickness.

- (28) Section 15.17.082 UMC Section 2213 (g) deletion and addition. Delete the first sentence of Section 2213 (g) and in the last sentence of said Section 2213 (g) add the words "or unions" after the word "Bushings".
- (29) Section 15.17.083 UMC Section 2213 (i) deletion and substitution. Delete Section 2213 (i) and substitute the following:
- (i) Valves. Valves used in connection with gas piping shall be approved types.
- (30) Section 15.17.084 UMC Section 2213 (k) deletion. Delete Section 2213 (k).
- (31) Section 15.17.085 UMC Section 2214 partial deletion and substitution. Delete Exception 3 of Section 2214 and substitute the following:
3. A listed accessible appliance connector valve of not less in nominal size than the connector shall be provided at the gas piping outlet immediately ahead of the connector.
- (32) Section 15.17.085 UMC Section 2215 (5) additions to. After the word "facilities" in the first sentence of Section 2215 (5) add the words "other than piping, appliances and their appurtenant devices"; also add after the word "stairways" in the last sentence of Section 2215 (5) the words, "provided such facilities are at least 5 feet from any building window, door or opening."
- (33) Section 15.17.086 UMC Section 2215 (6) deletion and substitution. Delete Section 2215 (6) and substitute the following:
- Liquified petroleum gas piping shall not serve any gas water heater located in a pit.
- (34) Section 15.17.087 UMC Section 2215 (9) deletion and substitution. Delete Section 2215 (9) and substitute the following:
- Discharge from relief valves shall be into open air and shall be at least 5 feet away from, and below the level of any opening into a building.
- (35) Section 15.17.088 UMC Section 2218 (a) deletion and substitution. In the second sentence of Section 2218 (a) change "8 inches" to "6 inches"; also delete the last sentence and substitute the following:
- For undiluted liquified petroleum gas, gas piping may be sized for the heating value of the gas at the altitude the appliance is installed, at 11 inches water column and specific gravity of 1.52.
- (36) Section 15.17.089 UMC Section 2218 (b) addition to. Add to the first paragraph of Section 2218 (b) the following:
- When gas-fired appliances are to be operated at higher elevations, the manufacturer's input rating shall be reduced by 4% for each 1000 feet above sea level.
- (37) Section 15.17.090 UMC Section 2218 (b) partial deletion and substitution. Delete the second paragraph of Section 2218 (b) and substitute the following:

When the manufacturer's rating of an appliance is given in British Thermal Units (B.t.u. 's) per hour and the appliance is to be operated at elevations above sea level, this rating shall be reduced at the rate of 4% for each 1000 feet of elevation above sea level. The reduced input rating shall be divided by the heating value of the gas served to the appliance, to obtain the corresponding gas demand in cubic feet per hour.

(38) Section 15.17.~~090~~⁰⁹¹ UMC Section 2219 (c) deletion and substitution. Delete Section 2219 (c) and substitute the following:

(c) Other Systems. Where gas of a different specific gravity is to be delivered, or where the pressure may be higher than 14 inches or lower than 6 inches of water column, the design, pipe sizing, materials, location and use of such systems shall be approved by the Building Official and the gas utility supplying the gas. Systems using undiluted liquefied petroleum gas may be sized using Table No. 22-D for 11 inches water column and in accordance with the provisions of Subsection (a) of this Section.

(39) Section 15.17.~~092~~⁰⁹³ UMC Section 2220 (d) deletion. Delete Section 2220 (d)

(40) Section 15.17.~~094~~⁰⁹³ UMC Section 1805, addition of. Add a Section 1805 to read as follows:

Section 1805. No incinerators of any type shall be installed or used which violate the provisions of state statute or Jefferson County regulations pertaining to said devices.

SECTION 5. Chapter 15.24 of the Golden Revised Ordinances of 1965 is hereby amended as follows:

Add Chapter 15.17 to those chapters already listed in Section 15.24.010 as published.

SECTION 6. All ordinances or parts of ordinances in conflict herewith are hereby repealed.

Introduced, read and ordered published this 10th day of September, 1970.

Adopted, approved and ordered published this 24th day of September, 1970.

Attest:

JON E. ANDREN

Mayor

SHARON L. BENNETTS

City Clerk

Approved as to form:

THOMAS J. CARNEY

City Attorney

I, Sharon L. Bennetts, City Clerk of the City of Golden, Colorado, do hereby certify that the foregoing ordinance was introduced and read at a regular meeting of the City Council of said City, held on the 10th day of September, 1970, and by order of said City Council was published as a proposed ordinance as the law directs, and for more than seven days prior to its passage in the Golden Daily Transcript, legal newspaper; and that on the 24th day of September, 1970, the said proposed ordinance was read and passed by the City Council aforesaid, the said meeting being a regular meeting of said City Council, and ordered published in aforesaid newspaper as the law directs.

Witness my hand and official seal of the City of Golden, Colorado, this 25th day of September, A.D., 1970.

(SEAL) ATTEST: SHARON L. BENNETTS

City Clerk