

**MOORPARK CITY COUNCIL
AGENDA REPORT**

TO: Honorable City Council

FROM: David A. Bobardt, Community Development Director 

DATE: January 13, 2011 (CC Meeting of 2/16/2011)

SUBJECT: Consider an Ordinance of the City of Moorpark, California, Amending Title 15, Buildings and Construction, of the Moorpark Municipal Code by Replacing in Their Entirety Chapter 15.04 – Administrative Provisions, Chapter 15.08 – Building Code, Chapter 15.10 – California Green Building Code, Chapter 15.18 – Housing Code, and Chapter 15.22 – California Residential Code

BACKGROUND/DISCUSSION

On December 15, 2010, the City Council adopted Ordinance No. 395, adopting by reference certain current model building codes with local amendments. Action was needed on this date for the local amendments to be effective as soon as possible in 2011. Staff is now recommended minor changes in organization and wording to improve the clarity of the local amendments adopted by Ordinance No. 395. The attached ordinance shows these proposed changes in legislative format. The City Attorney has reviewed and approved these changes. Although the second reading of Ordinance No. 395 required a public hearing because it was adopting certain State codes by reference, Section 50022.4 of the Government Code allows for subsequent local amendments without a public hearing.

STAFF RECOMMENDATION

Introduce Ordinance No. ____ for first reading, waive full reading, and direct staff to schedule second reading for March 2, 2011.

Attachment: Ordinance No. ____

ORDINANCE NO. ____

AN ORDINANCE OF THE CITY OF MOORPARK CALIFORNIA, AMENDING TITLE 15, BUILDINGS AND CONSTRUCTION OF THE MOORPARK MUNICIPAL CODE BY REPLACING IN THEIR ENTIRETY CHAPTER 15.04 – ADMINISTRATIVE PROVISIONS, CHAPTER 15.08 – BUILDING CODE, CHAPTER 15.10 – CALIFORNIA GREEN BUILDING CODE, CHAPTER 15.18 – HOUSING CODE, AND CHAPTER 15.22 – CALIFORNIA RESIDENTIAL CODE

WHEREAS, Ordinance No. 395 was adopted by the City Council on December 15, 2010, adopting by reference the current editions of certain model building codes, together with amendments thereto; and

WHEREAS, minor changes in the organization and wording of the local amendments are needed for clarity.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MOORPARK, CALIFORNIA, DOES ORDAIN AS FOLLOWS:

SECTION 1. Chapters 15.04, 15.08, 15.10, 15.18, 15.20, and 15.22 of the Moorpark Municipal Code are amended and replaced in their entirety as shown in Exhibit A.

SECTION 2. If any section, subsection, sentence, clause, phrase or word of this Ordinance is for any reason held to be invalid by a Court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. The City Council hereby declares that it would have passed and adopted this Ordinance and each and all provisions thereof, irrespective of the fact that any one or more of said provisions may be declared invalid.

SECTION 3. The City Clerk shall certify to the passage and adoption of this ordinance; shall enter the same in the book of original ordinances of said City; shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council at which the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published once in the Moorpark Star a newspaper of general circulation, as defined in Section 6008 of the Government Code, for the City of Moorpark, and which is hereby designated for that purpose.

Ordinance No. ____

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PASSED AND ADOPTED this ____ day of March, 2011.

Janice S. Parvin, Mayor

ATTEST:

Maureen Benson, City Clerk

Exhibit A: Chapters 15.04, 15.08, 15.10, 15.18, and 15.22 of the Moorpark Municipal Code

EXHIBIT A

CHAPTER 15.04 ADMINISTRATIVE PROVISIONS

Sections:

- 15.04.010 Administrative Code Adopted.
- 15.04.020 Gas Code.
- 15.04.030 Mechanical Code.
- 15.04.040 Plumbing Code.
- 15.04.050 Fire Prevention.
- 15.04.060 Liability
- 15.04.0760 Expiration.
- 15.04.0870 Permit Fees.
- 15.04.0980 Plan Review Fees.
- 15.04.10090 Liability.
- 15.04.100 Disaster Response.
- 15.04.110 Violations and Penalties.
- 15.04.120 Safety Assessment Placards.

15.04.010 Administrative Code Adopted.

Except as hereinafter provided, Chapter 1 of the California Building Code, 2010 Edition published by the International Code Council, is hereby adopted by reference as the Administrative Code of the City of Moorpark. A copy of the California Building Code, 2010 Edition, Chapter 1, shall be maintained in the Office of the Building Official of the City of Moorpark and shall be made available for public inspection while this Code is in force.

15.04.020 Gas Code.

Section 101.4.1 of the California Building Code is replaced in its entirety hereby amended to read:

101.4.1 Gas. The provisions of the California Plumbing Code shall apply to the installation of gas piping from the point of delivery, gas appliances and related accessories as covered in by this code. These requirements apply to gas piping systems extending from the point of delivery to the inlet connections of appliances and the installation and operation of residential and commercial gas appliances and related accessories.

15.04.030 Mechanical Code.

Section 101.4.2 of the California Building Code is replaced in its entirety shall be amended to read:

101.4.2 Mechanical. The provisions of the California Mechanical Code shall apply to the installation, alterations, repairs, and replacement of mechanical systems, including equipment, appliances, fixtures, fittings, and/or

appurtenances, including ventilation, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy related systems.

15.04.040 Plumbing Code.

Section 101.4.3 of the California Building Code is replaced in its entirety shall be amended to read:

101.4.3 Plumbing. The provisions of the California Plumbing Code shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

15.04.050 Fire Prevention.

Section 101.4.5 of the California Building Code is replaced in its entirety shall be amended to read:

101.4.5 Fire Prevention. The provisions of the Ventura County Fire Code shall apply to matters affecting or relating to structures, processes and premises from the hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; from conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

15.04.060 Liability.

Section 104.8 of the California Building Code is replaced in its entirety to read:

104.8 Liability. Except as otherwise provided in any contract with the City, the Building Official, or his authorized representative charged with the enforcement of this Code and the technical codes, acting in good faith and without malice in the discharge of his duties, shall not thereby render himself personally liable for any damage that may accrue to persons or property as a result of any act or by reason of any act or omission in the discharge of his duties. Any suit brought against the Building Official, agent or employee because of such act or omission performed by him in the enforcement of any provision of such Codes or other pertinent laws or ordinances implemented through the enforcement of this Code or enforced by the code enforcement agency shall be defended by this jurisdiction until final termination of such proceedings, and any judgment resulting there from shall be assumed by this jurisdiction.

Such Codes shall not be construed to relieve from or lessen the responsibility of any person owning, operating or controlling any building, structure or building service equipment therein for any damages to persons or property caused by defects, nor shall the code enforcement agency or its parent jurisdiction be held

as assuming any such liability by reason of the inspection authorized by this code or any permits or certificates issued under this code.

15.04.0760 Expiration.

Section 105.5 of the California Building Code is replaced in its entirety hereby amended to read:

105.5 Expiration. Every permit issued shall become invalid unless work on the site authorized by such permit is commenced within 180 days after its issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced. Before such work can be recommenced, a new permit shall be first obtained to do so, and the fee therefore shall be one--half the amount required for a new permit for such work, provided no changes have been made or will be made in the original plans and specifications for such work, and provided further that such suspension or abandonment has not exceeded one year. In order to renew action on a permit after expiration, a new full permit fee shall be paid.

The building official is authorized to grant, in writing, an extension of time for a period of not more that 180 days. The extension shall be requested in writing and justifiable cause shall be demonstrated.

15.04.0870 Permit Fees.

Section 109.2 of the California Building Code is replaced in its entirety hereby amended to read:

109.2 Permit Fees~~PERMIT FEES~~. The fee for each permit shall be as set forth in the latest resolution of the City Council of the City of Moorpark relating to permit fees.

The determination of value or valuation under any of the provisions of these Codes shall be made by the Building Official. The value to be used in computing the building permit and building plan review fees shall be the total value of all construction work for which the permit is issued as well as all finish work, painting, roofing, electrical, plumbing, heating, air-conditioning, elevators, fire-extinguishing systems and any other permanent equipment.

15.04.0980 Plan Review Fees.

The following language is added to the City's adoption~~Section 109.7~~ of the California Building Code at the location indicated by the section number below ~~is hereby~~ added:

109.7 Plan Review Fees. When a plan or other data is required to be submitted by Section 107 of the California Building Code, a plan review fee shall be paid at the time of submitting plans and specifications for review. The plan review fee

shall be as set forth in the latest resolution of the City Council of the City of Moorpark relating to plan review fees.

The plan review fees specified in this subsection are separate fees from the permit fees specified in Section 109 of the California Building Code and are in addition to the permit fees. Where plans are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the same rate as charged upon submittal of plans and specifications.

15.04.090 Liability.

~~Section 104.8 of the California Building Code is hereby amended to read:~~

~~104.8 Liability. The Building Official, or his authorized representative charged with the enforcement of this Code and the technical codes, acting in good faith and without malice in the discharge of his duties, shall not thereby render himself personally liable for any damage that may accrue to persons or property as a result of any act or by reason of any act or omission in the discharge of his duties. Any suit brought against the Building Official, agent or employee because of such act or omission performed by him in the enforcement of any provision of such Codes or other pertinent laws or ordinances implemented through the enforcement of this Code or enforced by the code enforcement agency shall be defended by this jurisdiction until final termination of such proceedings, and any judgment resulting there from shall be assumed by this jurisdiction.~~

~~The provisions of this section shall apply if the Building Official or his authorized representatives are employees of this jurisdiction and shall also apply if the Building Official or his authorized representatives are acting under contract as agents of the jurisdiction.~~

~~Such Codes shall not be construed to relieve from or lessen the responsibility of any person owning, operating or controlling any building, structure or building service equipment therein for any damages to persons or property caused by defects, nor shall the code enforcement agency or its parent jurisdiction be held as assuming any such liability by reason of the inspection authorized by this code or any permits or certificates issued under this code.~~

15.04.100 Disaster Response.

The City Manager may enter into mutual aid agreements for emergency Building and Safety Services for the purpose of assuring adequate and effective response in the event of earthquake or other unforeseen emergencies.

15.04.110 Violations and Penalties.

A. It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy, or maintain any land, building or structure, building service equipment, machine or

equipment; or cause or permit the same to be done in violation of this Code Or the Technical Codes. Each such person shall be deemed 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 or the Technical Codes is committed, continued, or permitted.

B. It shall be unlawful for any person to remove, deface, alter, or obstruct from view a posted notice of the Building Official or duly appointed representative when such notice constitutes a stop work order or a warning of substandard or hazardous conditions or prohibits or restricts the occupancy or use of a building, structure, or building service equipment regulated by this Code or the Technical Codes.

C. Every violation of this Code or the Technical Codes shall be deemed a misdemeanor.

D. Any person convicted of a misdemeanor shall be punishable by a fine of not more than one thousand dollars (\$1,000) or by imprisonment for not more than six (6) months or by both such fine and imprisonment.

15.04.120 Safety Assessment Placards.

A. This section establishes standard placards to be used to indicate the condition of a structure for continued occupancy. This section further authorizes the Building Official and his or her authorized representatives to post the appropriate placard at each entry point to a building or structure upon completion of a safety assessment.

B. The provisions of this section are applicable to all buildings and structures of all occupancies regulated by the City of Moorpark. The council may extend the provisions as necessary.

C. Safety assessment is a visual, non-destructive examination of a building or structure for the purpose of determining the condition for continued occupancy.

D. The following are verbal descriptions of the official jurisdiction placards to be used to designate the condition for continued occupancy of buildings or structures.

1. **INSPECTED-Lawful Occupancy Permitted** is to be posted on any building or structure wherein no apparent structural hazard has been found. This placard is not intended to mean that there is no damage to the building or structure.

2. **RESTRICTED USE** is to be posted on each building or structure that has been damaged wherein the damage has resulted in some form of restriction to the continued occupancy. The individual who posts this placard will note in general terms the type of damage encountered and will clearly and concisely note the restriction on continued occupancy.

3. **UNSAFE-Do Not Enter or Occupy** is to be posted on each building or structure that has been damaged such that continued occupancy poses a threat to life safety. Building or structures posted with this placard shall not be entered under any circumstances except as authorized in writing by the Building Official, or his or her authorized representative. Safety assessment teams shall be authorized to enter these buildings at any time. This placard is not to be used or considered as a demolition order. The individual who posts this placard will note in general terms the type of damage encountered.

E. This ordinance number, the name of the jurisdiction, its address, and telephone number shall be permanently affixed to each placard.

F. Once it has been attached to a building or structure, a placard is not to be removed, altered or covered until done so by an authorized representative of the Building Official. It shall be unlawful for any person, firm or corporation to alter, remove, cover or deface a placard unless authorized pursuant to this section.

CHAPTER 15.08 BUILDING CODE

Sections:

- 15.08.010 Building Code Adopted.**
- 15.08.020 Grading Administration and Enforcement by City Engineer**
- 15.08.0320 Foundation Design.**
- 15.08.0430 Table 1809.7 Amended.**
- 15.08.050 Swimming Pools.**
- 15.08.0640 Fire Hazard Zone Requirements.**
- ~~**15.08.050 Grading Enforcement by City Engineer.**~~
- ~~**15.08.060 Swimming Pools.**~~

15.08.010 Building Code Adopted.

Except as hereinafter provided, the California Building Code, 2010 Edition, Volumes 1 and 2, with Appendices C, F, H, I and J; California Residential Code, 2010 Edition; California Referenced Standards, 2010 Edition; California Electrical Code, 2010 Edition; California Plumbing Code, 2010 Edition; California Mechanical Code, 2010 Edition; California Energy Code, 2010 Edition; California Green Building Code, 2010 Edition; California Administrative Code, 2010 Edition; International Property Maintenance Code, 2009 Edition and the Gypsum Association Fire Resistive Manual Nineteenth Edition, together with amendments thereto; are hereby adopted by reference as the Building Code of the City of Moorpark. A copy of the California Building Code, 2010 Edition, Volumes 1 & 2 shall be maintained in the office of the Building Official in the City of Moorpark, and shall be made available for public inspection while this Code is in force.

15.08.020 Grading Administration and Enforcement by City Engineer.

The definition of Building Official contained in Section 202 of the California Building Code is replaced in its entirety to read:

Building Official. The officer or other designated authority, or a duly authorized representative charged with the administration and enforcement of this Code, except for Appendix J. The Authority charged with the administration and enforcement of Appendix J shall be the City Engineer.

15.08.0320 Foundation Design.

The following language is added to the City's adoption of the California Building Code at the location indicated by the Section number below~~Section 1808.6.5 is hereby added to read:~~

1808.6.5. When buildings are located on expansive soil having an expansion index greater than 50, gutters, downspouts, piping, and/or other non-erosive devices shall be provided to collect and conduct rain water to pervious areas such as yards, open channels, or vegetated areas. Routing rooftop runoff via yard drains to the roadway or the storm water conveyance system shall not be permitted.

15.08.0430 TABLE 1809.7 Amended.

Table 1809.7 of the California Building Code is hereby replaced in its entirety~~amended to read:~~

Table 1809.7—Foundations for stud bearing walls—minimum requirements^{1, 10, 11, 12}

Weighted expansion index	Foundation for slab and raised floor systems ^{2, 3, 7}										Concrete slabs		Restrictions on piers under raised floors
	No. of stories	Stem thickness ⁵	Footing width ⁶	Footing thickness	All perimeter footings ⁸	Interior footings for slab and raised floors ⁶	Reinforcement for continuous foundations ^{3, 8}	Reinforcement ⁴		3-1/2" minimum thickness 4" with E.I. over 51	Pre-moistening of soils under footings, piers and slabs ^{5, 6}		
								Depth below natural surface of ground and finish grade	Reinforcement for continuous foundations ^{3, 8}			Total thickness of sand	
Inches													
0-20	1	6	12	6	12	12	1-#4	#4 @ 48" o.c. each way	2"	Piers allowed for single floor loads only			
Very low non expansive	2	6	15	7	18	18	Top and bottom	or	2"				
	3	10	18	8	24	24	1-#4	#3 @ 36" o.c. each way			4"		
21-50	1	6	12	6	15	12	1-#4	#3 @ 36" o.c. each way	4"	Piers allowed for single floor loads only			
Low	2	8	15	7	18	18	Top and bottom	or	4"				
	3	10	18	8	24	24	1-#4	#3 @ 36" o.c. each way			4"		
51-90	1	6	12	8	21	12	1-#4 top and bottom	#3 @ 24" o.c. each way	4"	Piers not allowed			
Medium	2	8	15	8	21	18	#3 bars @ 24" o.c. each way	12" into footing, 36" into slab ¹⁰	4"				
	3	10	18	8	24	24	1-#4 top and bottom	#3 @ 24" o.c. each way			4"		
91-130	1	6	12	8	27	12	2-#4	#3 @ 24" o.c. each way	4"	Piers not allowed			
High	2	8	15	8	27	18	Top & bottom	or	4"				
	3	10	18	8	27	24	#3 bars @ 24" o.c. each way	12" into footing, 36" into slab ¹⁰			4"		
Above 130 very high	Special design by a licensed Architect or Engineer required												

Footnotes to Table 1809.7

1. Pre-moistening is required where specified in Table CBC 1809.7 in order to achieve maximum and uniform expansion of the soil prior to construction and thus limit structural distress caused by uneven expansion and shrinkage. Other systems, which do not include pre-moistening, may be approved by the Building Official, when such alternatives are shown to provide equivalent safeguards against the adverse effects of expansive soil.
2. Under-floor access crawl holes shall be provided with curbs extending not less than 6 inches above adjacent grade to prevent surface water from entering the foundation area.
3. Reinforcement for continuous foundations shall be placed not less than 3 inches above the bottom of the footing and not less than 3 inches below the top of the stem.
4. Slab reinforcement shall be placed at mid-depth and continue to within two inches of the exterior face of the exterior footing walls.
5. Moisture content of soils shall be maintained until foundations and piers are poured and a vapor barrier is installed. Test shall be taken within 24 hours of each slab pour.
6. Crawl spaces under raised floors need not be pre-moistened except under interior footings. Interior footings which are not enclosed by a continuous perimeter foundation system or equivalent concrete or masonry moisture barrier shall be designed and constructed as specified for perimeter footings in Table CBC 1809.7.
7. A grade beam not less than 12 inches X 12 inches in cross-sectional area, reinforced as specified for continuous foundations in Table CBC 1809.7, shall be provided at garage door openings.
8. Foundation stem walls which exceed a height of three times the stem thickness above lowest adjacent grade shall be reinforced in accordance with Sections 18 and 19 in the CBC, or as required by engineering design, whichever is more restrictive.
9. Footing widths may be reduced upon submittal of calculations by a registered civil or structural engineer or licensed architect, but shall be a minimum of 12 inches for one and two-story structures and 15 inches for three-story structures.
10. Bent reinforcing bar between exterior footing and slab shall be omitted when floor is designed as an independent, "floating" slab.
11. Fireplace footings shall be reinforced with a horizontal grid located 3 inches above the bottom of the footing and consisting of not less than No. 4 bars at 12 inches on center each way. Vertical chimney reinforcing bars shall be hooked under the grid.
12. Underground utility conduits shall be installed prior to foundation inspection and shall extend beyond the foundation.

15.08.050 Swimming Pools.

The following language is added to the City's adoption of the California Building Code at the location indicated by the Section numbers below:

3109.6 Pool Design and Construction.

3109.6.1 General. Pool design and construction shall be in accordance with accepted engineering practice, shall be in conformity with applicable provisions of the adopted building, electrical, plumbing, and mechanical codes, and shall be structurally suitable for the soil, topographic, and geologic conditions prevailing at the construction site.

3109.6.2 Expansive Soil Design. Pools constructed at grade shall be designed on the assumption that their construction is to be in an area of moderately expansive soil having an expansion index of 51-90 and an equivalent fluid pressure of not less than 45 pounds per cubic foot (45 p.c.f.). Exception: Where tests indicate that soils at a pool site are non-expansive or have low expansion characteristics from the ground surface to the full depth of the pool, structural design may be based on an equivalent fluid pressures not less than 30 p.c.f.

In highly expansive soils having an expansion index of 91-130, pools shall be designed for not less than 60 p.c.f. equivalent fluid pressure. In very highly expansive soils having an expansion index over 130, pool design shall be subject to special requirements based on a site investigation, soil testing, and engineering analysis by a registered civil engineer to determine appropriate design parameters for the site.

3109.6.3 Hydrostatic Uplift. In areas of anticipated high water table, an approved hydrostatic relief system or device shall be installed.

3109.6.4 Thermal Protection for Plastic Piping. Between the inlet of pool water heating equipment and any plastic water piping connected thereto, a check valve shall be installed to prevent thermal damage to such piping due to backflow. Exception: When rapid or high-rate filters are employed, a check valve may be omitted.

Between the outlet of pool heating equipment and any plastic water piping connected thereto, not less than five feet of approved metal pipe shall be installed for the purpose of dissipating heat.

3109.6.5 Safeguarding Suction Drains. Bottom drains and suction intakes in pools and spas shall be covered with grated or other protective devices which cannot be removed except with tools. The slots or openings in these covers shall be of such area, shape, and arrangement as to prevent bathers from being drawn thereto with such force as to constitute a safety hazard.

3109.6.6 Grab Bars. Wherever egress from a pool by bathers is restricted by the presence of a vertical wall or other barrier which extends more than 12 inches above the water at the pool's edge, permanent handrail, grab bars, or equivalent device (s) shall be installed within 12 inches of the water surface, capable of being securely grasped and adequate to support the weight of a user of the pool.

3109.6.7 Decks

3109.6.7.1 General. A deck shall be provided around below-grade swimming pools except when special engineering design is furnished which indicates that such deck is not necessary for the purpose of maintaining the structural integrity of the pool and/or for controlling surface water and moisture content in the soil adjacent to the pool. Decks shall not be required for spas and hot tubs.

3109.6.7.2 Deck Design and Construction. Required decks shall be constructed of concrete or other approved impervious material and shall be sloped to provide positive drainage away from the perimeter of the pool. Except as provided below, decks shall have a minimum width of four feet and shall be at least 3-1/2 inches in thickness. Reinforcement shall be #3 bars spaced not over 24 inches on-center each way, or equivalent reinforcing.

Approved joints shall be provided in the deck at corners, at maximum 10-foot intervals, and wherever necessary in order to control cracking, to allow for differential movement and to minimize damage to the deck from such movement should it occur. Joints in decks and coping shall be made watertight with an approved permanent resilient sealant.

3109.6.7.3 Cutoff Walls. At the outer perimeter of pool decks a cutoff wall of approved material shall be installed below-grade to a depth of at least 15 inches so as to form a permanent and effective vertical moisture barrier.

Exceptions:

1. A cutoff wall may be omitted when a deck at least six feet wide is installed.
2. Decks less than four feet in width may be installed provided that the required cutoff wall is increased in depth beyond the minimum by an amount directly proportional to the reduction in deck width.

3109.6.7.4 Pre-Saturation, Highly Expansive Soils. When the soil below a deck has an expansion index of 91 or greater it shall be saturated with water to a depth of at least 18 inches prior to installation of the deck.

3109.6.7.5 Surface Water. Surface water from pool decks shall be collected and conducted through non-erosive devices to a street, storm drain, or other approved watercourse or disposal area.

3109.6.7.6 Wastewater. Pool waste shall be disposed of in accordance with the requirements of the City Engineer.

3109.6.7.7 Drywells. Drywells shall not be employed for pool wastewater disposal except when specifically approved for the purpose and when it has been determined that such installation is not likely to have adverse effects on the structural stability of the pool or other structures on the site. The Building Official may require a percolation test, soils report, and/or geological report to make such a determination.

3109.6.7.8. Special Inspection. Special inspection as required by Section 1701 in the UBC shall be provided for pneumatically placed concrete (gunite) in swimming pools.

15.08.0640 Fire Hazard Zone Requirements.

The following language is Chapter 36 is hereby added to the City's adoption of the California Building Code at the location indicated by the Chapter and Section numbers below to read:

Chapter 36
Fire Hazard Zone Requirements

3601. High Fire Hazard Area Defined. For the purpose of this code, certain locations within the incorporated areas of the City of Moorpark shall be classified as High Fire Hazard by the Ventura County Fire Protection District. The High Fire Hazard Area is defined as any area within 500 feet of uncultivated brush, grass, or forest-covered land wherein an authorized representative of said district determines that a potential fire hazard exists due to the presence of such flammable growth.

3602. Construction Requirement in High Fire Hazard Areas. The purpose of this Section is to provide a minimum standard for the fire protection of buildings and structures hereafter erected in proximity to areas of the City where concentrations of highly flammable brush, grass, or other combustible growth combined with periods of hot, dry winds create a high fire hazard and where lives and property may thereby be endangered.

Buildings or structures hereafter erected, constructed or moved within or into designated high fire hazard areas shall be one of the Types of Construction as defined in this Code and shall meet the requirements of this Section. Although their installation is encouraged, neither manual nor automatic fire extinguishing systems or similar water spraying devices may be substituted for the fire protection set forth herein.

3602.1 Roofs. Roof coverings shall be class A, or B as specified in Section 1505 of the California Building Code, except that no wooden shakes or shingles, treated or untreated, shall be permitted.

3602.2 Exterior Walls. Fire-resistive protection of exterior walls and openings, as determined by location and property, shall be as required by Section 704 in the CBC. Exception: No exterior wall covering of a building shall provide less fire resistance than that afforded by; 7/8-inch exterior cement plaster; 1-inch nominal thickness solid wood siding; 1/2-inch textured plywood siding having a groove depth of 1/8-inch or less; 7/16-inch hardwood siding 5/8-inch particle board, exterior type 2-M; or 5/8-inch exterior plywood, Texture III, having a groove depth of 1/4-inch or less. Fire-retardant treated or untreated wood shingle or shake siding shall not be permitted.

3602.3 Underfloor Areas. Where under floor areas are not enclosed by fire-resistive construction conforming to the requirements of Section 3602.2 above, the underside of the floor system shall be fire-protected as set forth in Section 3602.4.

3602.4 Projections And Other Building Elements Exposed To Fire. Architectural projections such as roof overhangs and offsets, balconies and decks, and other elements of buildings which have combustible structural elements in the horizontal plane, shall be protected with materials approved for 1-hour fire-resistive construction on the lower, fire-exposed side and shall have 1-hour fire-resistive supporting columns unless the details of construction conform to those for heavy timber as described in Section 602.4 in the CBC.

Exceptions:

1. Combustible structural members in horizontal projections may be unprotected timbers of size 4 inch x 6 inch or larger when used as rafters or as stair, balcony, or deck supports or for similar purposes.
2. Heavy timber roof decking at eaves and rakes may be unprotected provided a fascia of not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter is installed at the roof's edge.
3. Patios, carports, arbors and open latticework sunshades may be constructed of any materials allowed by this Code.
4. Balconies and decks 30 inches or more above grade may have flooring of not less than 2-inch nominal thickness lumber or material of equivalent fire resistance. Such flooring may be spaced not more than 1/4 inch apart and need not be fire protected on the underside.
5. Balconies and decks less than 30 inches above grade shall be solidly floored without gaps and shall be fire-protected on the underside as required by this Section. In lieu of fire protection, such balconies and decks may be enclosed from floor surface to grade in the manner prescribed for exterior walls in Section 3602.2.

6. Combustible exterior columns directly supporting roofs, stairs, balconies, and decks may be size 4 inch x 4 inch or larger. Columns and beams supporting interior floor loads may be size 6 inch x 6 inch or larger.

3602.5 Ventilation Openings. Attic or foundation ventilation openings or louvers shall not be located at or immediately below, eaves, or rakes, offsets or balconies, or similar exterior overhangs which may be directly exposed to a fire in adjacent hazardous grass or brush areas.

3603. Waiver of Requirements. The Building Official may waive the requirements of CBC Sec. 3601.1 through 3602.5 above, in whole or in part, for specific construction projects within the High Fire Hazard Area when such waiver is approved by an authorized representative of the Ventura County Fire Protection District, based upon site conditions which justify a reduction in fire resistance.

~~15.08.050 Grading Enforcement by City Engineer.~~

~~The definition of Building Official contained in Section 202 of the Building Code is hereby amended to read:~~

~~202 Building Official. Is the officer or other designated authority or his duly authorized representative charged with the administration and enforcement of this Code, except Appendix Chapter J. The Authority designated to enforce Appendix Chapter J shall be the City Engineer.~~

~~15.08.060 Swimming Pools.~~

~~Section 3109.6 of CHAPTER 31 of the California Building Code is hereby added to read:~~

~~3109.6 Pool Design and Construction.~~

~~3109.6.1 General. Pool design and construction shall be in accordance with accepted engineering practice, shall be in conformity with applicable provisions of the adopted building, electrical, plumbing, and mechanical codes, and shall be structurally suitable for the soil, topographic, and geologic conditions prevailing at the construction site.~~

~~3109.6.2 Expansive Soil Design. Pools constructed at grade shall be designed on the assumption that their construction is to be in an area of moderately expansive soil having an expansion index of 51-90 and an equivalent fluid pressure of not less than 45 pounds per cubic foot (45 p.c.f.). Exception: Where tests indicate that soils at a pool site are non expansive or have low expansion characteristics from the ground surface to the full depth of the pool, structural design may be based on an equivalent fluid pressures not less than 30 p.c.f.~~

~~In highly expansive soils having an expansion index of 91-130, pools shall be designed for not less than 60 p.c.f. equivalent fluid pressure. In very highly expansive soils having an expansion index over 130, pool design shall be subject to special requirements based on a site investigation, soil testing, and engineering analysis by a registered civil engineer to determine appropriate design parameters for the site.~~

~~3109.6.3 Hydrostatic Uplift. In areas of anticipated high water table, an approved hydrostatic relief system or device shall be installed.~~

~~3109.6.4 Thermal Protection for Plastic Piping. Between the inlet of pool water heating equipment and any plastic water piping connected thereto, a check valve shall be installed to prevent thermal damage to such piping due to backflow. Exception: When rapid or high-rate filters are employed, a check valve may be omitted.~~

~~Between the outlet of pool heating equipment and any plastic water piping connected thereto, not less than five feet of approved metal pipe shall be installed for the purpose of dissipating heat.~~

~~3109.6.5 Safeguarding Suction Drains. Bottom drains and suction intakes in pools and spas shall be covered with grated or other protective devices which cannot be removed except with tools. The slots or openings in these covers shall be of such area, shape, and arrangement as to prevent bathers from being drawn thereto with such force as to constitute a safety hazard.~~

~~3109.6.6 Grab Bars. Wherever egress from a pool by bathers is restricted by the presence of a vertical wall or other barrier which extends more than 12 inches above the water at the pool's edge, permanent handrail, grab bars, or equivalent device (s) shall be installed within 12 inches of the water surface, capable of being securely grasped and adequate to support the weight of a user of the pool.~~

~~3109.6.7 Decks~~

~~3109.6.7.1 General. A deck shall be provided around below grade swimming pools except when special engineering design is furnished which indicates that such deck is not necessary for the purpose of maintaining the structural integrity of the pool and/or for controlling surface water and moisture content in the soil adjacent to the pool. Decks shall not be required for spas and hot tubs.~~

~~3109.6.7.2 Deck Design and Construction. Required decks shall be constructed of concrete or other approved impervious material and shall be sloped to provide positive drainage away from the perimeter of the pool. Except as provided below, decks shall have a minimum width of four feet and shall be at least 3-1/2 inches in thickness. Reinforcement shall be #3 bars spaced not over 24 inches on center each way, or equivalent reinforcing,~~

~~Approved joints shall be provided in the deck at corners, at maximum 10-foot intervals, and wherever necessary in order to control cracking, to allow for differential movement and to minimize damage to the deck from such movement should it occur. Joints in decks and coping shall be made watertight with an approved permanent resilient sealant.~~

~~3109.6.7.3 Cutoff Walls. At the outer perimeter of pool decks a cutoff wall of approved material shall be installed below grade to a depth of at least 15 inches so as to form a permanent and effective vertical moisture barrier.~~

~~Exceptions:~~

- ~~1. A cutoff wall may be omitted when a deck at least six feet wide is installed.~~
- ~~2. Decks less than four feet in width may be installed provided that the required cutoff wall is increased in depth beyond the minimum by an amount directly proportional to the reduction in deck width.~~

~~3109.6.7.4 Pre Saturation, Highly Expansive Soils. When the soil below a deck has an expansion index of 91 or greater it shall be saturated with water to a depth of at least 18 inches prior to installation of the deck.~~

~~3109.6.7.5 Surface Water. Surface water from pool decks shall be collected and conducted through non-erosive devices to a street, storm drain, or other approved watercourse or disposal area.~~

~~3109.6.7.6 Wastewater. Pool waste shall be disposed of in accordance with the requirements of the City Engineer.~~

~~3109.6.7.7 Drywells. Drywells shall not be employed for pool wastewater disposal except when specifically approved for the purpose and when it has been determined that such installation is not likely to have adverse effects on the structural stability of the pool or other structures on the site. The Building Official may require a percolation test, soils report, and/or geological report to make such a determination.~~

~~3109.6.7.8. Special Inspection. Special inspection as required by Section 1701 in the UBC shall be provided for pneumatically placed concrete (gunite) in swimming pools.~~

CHAPTER 15.10 CALIFORNIA GREEN BUILDING CODE

Sections:

- 15.10.010 California Green Building Code Adopted.**
- 15.10.020 Section 4.408 Deleted.**

- 15.10.030 Section 5.408 Deleted.**
- 15.10.040 Permit Fees.**
- 15.10.050 Plan Review Fees.**
- 15.10.060 Construction Demolition Material Management.**

15.10.010 California Green Building Code Adopted.

Except as hereinafter provided, the California Green Building Code, 2010 Edition, published by the International Code Council, is hereby adopted by reference as the Green Building Code of the City of Moorpark. A copy of the California Green Building Code, 2010 Edition, shall be maintained in the office of the Building Official of the City of Moorpark and shall be made available for public inspection while this Code is in force.

15.10.020 Section 4.408 Deleted.

Section 4.408 Construction Waste Reduction, Disposal and Recycling Residential, is hereby deleted.

15.10.030 Section 5.408 Deleted.

Section 5.408 Construction Waste Reduction, Disposal and Recycling Non-Residential, is hereby deleted.

15.10.040 Permit Fees.

The following language is added to the City's adoption of the California Green Building Code at the location indicated by the Section number below~~Section 101.12 is hereby added to read:~~

101.12. A fee as set forth in the latest resolution of the City Council of the City of Moorpark shall be assessed to verify compliance with the mandatory measures of the California Green Building Code, and with the voluntary measures of the California Green Building Code when requested by the permit applicant.

15.10.050 Plan Review Fees.

The following language is added to the City's adoption of the California Green Building Code at the location indicated by the Section number below~~Section 101.13 is hereby added to read:~~

101.13. Plan Review Fee. When a plan or other data is required to be submitted by Section 102, a plan review fee shall be paid at the time of submitting plans and specifications for review. The plan review fee shall be as set forth in the latest resolution of the City Council of the City of Moorpark relating to plan review fees.

15.10.060 Construction Demolition Material Management.

The provisions of Chapter 8.36 of Title 8 of the Moorpark Municipal Code shall apply to the Construction Waste Reduction, Disposal and Recycling of Residential and Non-Residential construction material.

**CHAPTER 15.18
HOUSING CODE**

Sections:

- 15.18.010 Housing Code.**
- 15.18.020 Substandard Buildings.**

15.18.010 Housing Code.

Except as hereinafter provided the International Property Maintenance Code, 2009 Edition, published by the International Code Council, is hereby adopted as the Housing Code of the City of Moorpark. A copy of the International Property Maintenance Code, 2009 Edition, shall be maintained in the office of the Building Official of the City of Moorpark and shall be made available for public inspection while this Code is in force.

15.18.020 Substandard Buildings.

Section 108 of the International Property Maintenance Code is amended to read ~~as set forth in~~ replaced in its entirety with Section 17920.3 of the Health and Safety Code of the State of California. A Copy of Section 17920.3 of the Health and Safety Code of the State of California shall be maintained in the office of the Building Official of the City of Moorpark and shall be made available for public inspection while this Code is in force.

**CHAPTER 15.22
CALIFORNIA RESIDENTIAL CODE**

Sections:

- 15.22.010 California Residential Code Adopted.**
- 15.22.020 General.**
- 15.22.030 Footings.**
- 15.22.040 Table R430.1 Amended.**
- 15.22.050 Foundation Design.**
- 15.22.060 Lateral Support.**
- 15.22.070 Wood Truss Design.**
- 15.22.080 Roofing.**

15.22.010 California Residential Code Adopted.

Except as hereinafter provided, the California Residential Code, 2010 Edition; with Appendices E and H published by the International Code Council is hereby adopted by reference as the Residential Code of the City of Moorpark. A copy of the California Residential Code, 2010 Edition, shall be maintained in the office of the

Building Official of the City of Moorpark and shall be made available for public inspection while this Code is in force.

15.22.020 General.

Section R401.1 of the California Residential Code is replaced in its entiretyhereby amended to read:

R401.1 Application. The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by Table R301.2 (1) shall meet the provisions of Section R322. Wood foundations shall be designed and installed in accordance with AF&PA PWF.

Exceptions: The provisions of this chapter shall be permitted to be used for wood foundations only in the following situations:

1A. In buildings that have no more than two floors and a roof.

2B. When interior basement and foundation walls are constructed at intervals not exceeding 50 feet.

Wood foundations in Seismic Design Category D₀, D₁, D₂, or E shall not be permitted.

15.22.030 Footings.

Sections R403.1.2, R403.1.3, and R403.1.5 of the California Residential Code are replaced in their entiretyhereby amended to read:

R403.1.2 Continuous footing in Seismic Design Category D₀, D₁, D₂ and E. The braced wall panels at exterior walls of buildings located in Seismic Design Categories D₀, D₁, D₂ and E shall be supported by continuous footings. All required braced wall panels in buildings shall be supported by continuous footings.

R403.1.3 Seismic reinforcing. Concrete footings located in Seismic Design Categories D₀, D₁, D₂ and E as established in Table R301.2(1), shall have minimum reinforcement. Bottom reinforcement shall be located a minimum of 3 inches clear from the bottom of the footing.

In Seismic Design Categories D₀, D₁, D₂ and E where construction joint is created between a concrete footing and a stem wall, a minimum of one No. 4 bar shall be installed at not more than 4 feet on center. The vertical bar shall extend 3 inches clear of the bottom of the footing, have a standard hook and extend a minimum of 14 inches into the stem wall.

In Seismic Design Categories D₀, D₁, D₂ and E where a grouted masonry stem wall is supported on a concrete footing and stem wall, a minimum of one No. 4

bar shall be installed at not more than 4 feet on center. The vertical bar shall extend to 3 inches clear of the bottom of the footing and have a standard hook.

In Seismic Design Categories D₀, D₁, D₂ and E, masonry stem walls without solid grout and vertical reinforcing are not permitted.

Exception: In detached one and two-family dwellings located in Seismic Design Categories A, B or C which are three stories or less in height and constructed with stud bearing walls, plain concrete footings without longitudinal reinforcement supporting wall and isolated plain concrete footings supporting columns or pedestals are permitted.

R403.1.5 Slope. The top surface of footings shall be level. The bottom surface of footings shall be permitted to have a slope not exceeding one vertical unit in 10 units horizontal (10-percent slope). Footings shall be stepped where it is necessary to change the elevation of the top surface of the footing or where the surface of the ground slopes more than one unit vertical in 10 units horizontal (10-percent slope). For structures located in Seismic Design Categories D₀, D₁, D₂ and E, stepped footings shall be reinforced with four ½-inch diameter deformed reinforcing bars. Two bars shall be placed at the top and bottom of the footings.

15.22.040 TABLE R403.1 Amended.

Table R403.1 of the California Residential Code is hereby amended to read:

Table R403.1—Foundations for stud bearing walls—minimum requirements^{1, 10, 11, 12}

Weighted expansion index	Foundation for slab and raised floor systems ^{3, 7}										Restrictions on piers under raised floors
	No. of stories	Stem thickness ⁸	Footing width ⁹	Footing thickness	All perimeter footings ⁶	Interior footings for slab and raised floors ⁶	Reinforcement for continuous foundations ^{3, 8}	Concrete slabs		Pre-moistening of soils under footings, piers and slabs ^{5, 6}	
								3-1/2" minimum thickness 4" with E.I. over 51	Total thickness of sand		
Inches											
0-20 Very low non expansive	1	6	12	6	12	12	1-#4 Top and bottom	#4 @ 48" o.c. each way or #3 @ 36" o.c. each way	2"	Moistening of ground prior to placing concrete is recommended	Piers allowed for single floor loads only
	2	6	15	7	18	18	1-#4 Top and bottom		2"		
	3	10	18	8	24	24	1-#4 Top and bottom		4"		
21-50 Low	1	6	12	6	15	12	1-#4 Top and bottom	#3 @ 24" o.c. each way #3 bars @ 24" o.c. each way 12" into footing, 36" into slab ¹⁰	4"	3% over optimum moisture required to a depth of 18" below lowest adjacent grade. Testing required.	Piers allowed for single floor loads only
	2	8	15	7	18	18	1-#4 Top and bottom		4"		
	3	10	18	8	24	24	1-#4 Top and bottom		4"		
51-90 Medium	1	6	12	8	21	12	1-#4 Top and bottom	#3 @ 24" o.c. each way #3 bars @ 24" o.c. each way 12" into footing, 36" into slab ¹⁰	4"	3% over optimum moisture required to a depth of 18" below lowest adjacent grade. Testing required.	Piers not allowed
	2	8	15	8	21	18	1-#4 Top and bottom		4"		
	3	10	18	8	24	24	1-#4 Top and bottom		4"		
91-130 High	1	6	12	8	27	12	2-#4 Top & bottom	#3 @ 24" o.c. each way #3 bars @ 24" o.c. each way 12" into footing, 36" into slab ¹⁰	4"	3% over optimum moisture required to a depth of 18" below lowest adjacent grade. Testing required.	Piers not allowed
	2	8	15	8	27	18	2-#4 Top & bottom		4"		
	3	10	18	8	27	24	2-#4 Top & bottom		4"		
Above 130 very high	Special design by a licensed Architect or Engineer required										Piers not allowed

FOOTNOTES TO TABLE CRC R403.1

1. Pre-moistening is required where specified in Table CRC R403.1 in order to achieve maximum and uniform expansion of the soil prior to construction and thus limit structural distress caused by uneven expansion and shrinkage. Other systems, which do not include pre-moistening, may be approved by the Building Official, when such alternatives are shown to provide equivalent safeguards against the adverse effects of expansive soil.
2. Under-floor access crawl holes shall be provided with curbs extending not less than 6 inches above adjacent grade to prevent surface water from entering the foundation area.
3. Reinforcement for continuous foundations shall be placed not less than 3 inches above the bottom of the footing and not less than 3 inches below the top of the stem.
4. Slab reinforcement shall be placed at mid-depth and continue to within 2 inches of the exterior face of the exterior footing walls.
5. Moisture content of soils shall be maintained until foundations and piers are poured and a vapor barrier is installed. Test shall be taken within 24 hours of each slab pour.
6. Crawl spaces under raised floors need not be pre-moistened except under interior footings. Interior footings which are not enclosed by a continuous perimeter foundation system or equivalent concrete or masonry moisture barrier shall be designed and constructed as specified for perimeter footings in Table CRC R403.1.
7. A grade beam not less than 12 inches X 12 inches in cross-sectional area, reinforced as specified for continuous foundations in Table CRC R403.1, shall be provided at garage door openings.
8. Foundation stem walls which exceed a height of three times the stem thickness above lowest adjacent grade shall be reinforced in accordance with Sections 18 and 19 in the California Building Code, or as required by engineering design, whichever is more restrictive.
9. Footing widths may be reduced upon submittal of calculations by a registered civil or structural engineer or licensed architect, but shall be a minimum of 12 inches for one and two-story structures and 15 inches for three-story structures.
10. Bent reinforcing bar between exterior footing and slab shall be omitted when floor is designed as an independent, "floating" slab.
11. Fireplace footings shall be reinforced with a horizontal grid located 3 inches above the bottom of the footing and consisting of not less than No. 4 bars at 12 inches on center each way. Vertical chimney reinforcing bars shall be hooked under the grid.
12. Underground utility conduits shall be installed prior to foundation inspection and shall extend beyond the foundation.

15.22.050 Foundation Design.

The following language is added to the City's adoption of the California Residential Code at the location indicated by the Section number below~~Section R403.1.8.2 is hereby added to read:~~

R403.1.8.2. When buildings are located on expansive soil having an expansion index greater than 50, gutters, downspouts, piping, and/or other non-erosive devices shall be provided to collect and conduct rain water to pervious areas such as yards, open channels, or vegetated areas. Routing rooftop runoff via yard drains to the roadway or the storm water conveyance system shall not be permitted.

15.22.060 Lateral Support.

Section R802.8 of the California Residential Code is replaced in its entirety~~hereby amended to read:~~

R802.8 Lateral Support. Roof framing members and ceiling joists having a depth-to-thickness ratio exceeding 2 to 1 based on nominal dimensions shall be provide with lateral support at points of bearing to prevent rotation. For roof rafters with ceiling joists attached per Table R602.3(1), the depth-thickness ratio for the total assembly shall be determined using the combined thickness of the rafter plus the attached ceiling joist.

15.22.070 Wood Truss Design.

Section R802.10.2 of the California Residential Code is replaced in its entirety~~hereby amended to read:~~

R802.10.2 Design. Wood trusses shall be designed in accordance with accepted engineering practice. The design and manufacture of metal-plate-connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a registered professional.

15.22.080 Roofing.

Section R902.1 of the California Residential Code is replaced in its entirety~~hereby amended to read:~~

R902.1 Roofing covering materials. Roof coverings shall be Cclass A, or B, except that no wooden shakes or shingles, treated or untreated, shall be permitted.

- End -