



# State & Local Land Use & Building Code

This Course is approved by the DBPR Council of Community Association Managers, for 4 hours of continuing education credit in the area of:

**Physical Property**

Gold Coast Professional Schools, Inc Provider # 00842  
Correspondence Course Approval # 9626314  
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## **Introduction**

The objective of this course is to familiarize students with State and local code requirements as they apply to community associations. Students will review the State Building Code to understand how it protects public health, safety and general welfare as they relate to the construction and occupancy of buildings and structures. They will learn how building codes are usually developed and applied by professionals, such as architects and engineers. They will review the International Building Code as it applies to the Florida State and local Building Codes. Students will identify the differences between State laws and regulations regarding buildings and land use, and local ordinances related to land use, zoning, building codes and permitting. They will discuss contractor certification requirements. Students are expected to conclude the course with an understanding of the various codes, how they apply to the community association and its owners, and their role as managers in helping the association and owners adhere to these standards.

The course materials are applicable to condominiums, cooperatives, timeshares, and homeowners' associations. The course is not designed to provide a specific strategy for any one association, but, rather, to help the manager and board by providing sufficient information to make informed decisions for their associations.

Some of the information presented in this course may not apply to every community association. However, the DBPR requires that community association managers be familiar with the laws and rules governing all types of associations. Further, by doing so, a manager may find him- or herself more qualified to advance within the community association management profession.

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## 1 **State & Local Land Use & Building Codes**

### 2 ***Overview of Course Objectives***

3 Whether we like it or not, government is a part of our lives. Association, municipality, county, state,  
4 federal are all differing types of government that we interact with every day, sometimes without  
5 even realizing it. It is important that we understand how government affects our everyday decision-  
6 making, our boards, and our residents, and how we can effectively use our government's resources  
7 to help us manage our communities.

8 In this course, we will learn about some of the government laws that affect associations, boards,  
9 residents and managers, how to find information about these laws, and the key provisions of which  
10 we need to be aware. We will discuss local land use, zoning and building code requirements and  
11 review the permitting process. We will learn how associations can influence land use and zoning  
12 processes. We will discuss the responsibility of the association to ensure that unit owners and con-  
13 tractors comply with applicable laws and codes. Finally, we will learn about the importance of using  
14 licensed design and construction professionals.

15 We recommend that managers create a reference book that contains pertinent laws, rules & regula-  
16 tions and guides. The manager may wish to bookmark the Florida Building Code websites for quick  
17 reference. The more complete the reference material a manager has on hand, the more readily he  
18 can learn important requirements of managing and maintaining an association. Most of the statutes  
19 and rules a manager may need are readily available on the Internet.

20 Some of the information incorporated into this chapter has been extracted directly from federal,  
21 state and local laws, regulations, pamphlets, brochures and websites, to ensure accuracy and com-  
22 pleteness. This course is for educational purposes only. The author of this course is not an attor-  
23 ney. As a note, please keep in mind that the Florida Supreme Court has ruled that managers may  
24 not interpret the law. While managers should become familiar with those laws and rules affecting  
25 associations, they should consult with the association attorney any time an interpretation is needed.

### 26 ***Revised Florida Building Code***

27 At one point or another, a community association, and/or its residents, will be engaged in some type  
28 of construction, rehabilitation, modification, or changes to its structures or facilities. The Florida  
29 Building Code covers every aspect of building in Florida. The Code, which became effective on  
30 March 1, 2002, incorporates building, electric, plumbing, mechanical, and administrative codes —  
31 accessibility, energy, coastal, manufactured, and state agency codes. The introductory paragraph  
32 states:

33 "The provision of this code shall apply to the construction, alteration, movement, en-  
34 largement, replacement, repair, equipment, use and occupancy, location, mainte-  
35 nance, removal and demolition of every building or structure or any appurtenances  
36 connected or attached to such buildings or structures."

37 The intent of the Florida Building Code is to "establish minimum requirements to safeguard the pub-  
38 lic health, safety, and general welfare through structural strength, means of egress facilities, stabil-  
39 ity, sanitation, adequate light and ventilation, energy conservation, and safety to life and property  
40 from fire and other hazards attributed to the built environment and to provide safety to fire fighters  
41 and emergency responders during emergency operations."

42 The Florida Building Code was authorized by the 1998 Florida Legislature to be the sole document  
43 incorporating all building standards adopted by all enforcement agencies and state agencies that li-  
44 cense different types of facilities. While the law allows for differences in the standards in different  
45 locales based on compelling differences in physical conditions, it created procedures so that there  
46 will not be unwarranted differences among differing municipalities and counties. The law also mod-

1 eled much of the Code after a national model building code.

2 The Florida Building Code is very broad and covers almost any type of construction, repair, altera-  
3 tion, modification or change that may occur within a building or unit. The Code is separated into  
4 three key sections, new, residential, and existing. Furthermore, there are other sections that cover  
5 specialty codes, such as plumbing or electrical. In all, the Codes are referred to as the "Florida  
6 Building Code." In some cases, a professional or general contractor must pull a permit to perform  
7 the work specified in a Code. In some circumstances, an owner may pull a permit for work per-  
8 formed in his residence; nonetheless, he must still meet Code requirements.

9 The Building Code incorporates by reference:

10 Gas: Applies to installation of gas piping from the point of delivery, gas appliances & related  
11 accessories as covered in the Gas Code, and to gas piping systems from the point of delivery to  
12 inlet connections of appliances and installations, operation of residential and commercial gas  
13 appliances, and related accessories.

14 Mechanical: Applies to installation, alterations, repairs and replacements of mechanical sys-  
15 tems, including equipment, appliances, fixtures, fittings, and/or appurtenances, including venti-  
16 lating, heating, cooling, air conditioning and refrigeration systems, incinerators, and other ener-  
17 gy-related systems.

18 Plumbing: Applies to installation, alterations, repairs and replacements of mechanical systems  
19 of plumbing systems, including equipment, appliances, fixtures, fittings, and/or appurtenances,  
20 and, where connected to a water or sewage system, and all aspects of a medical gas system.

21 Fire Prevention: (Florida Fire Prevention Code) Applies to matters affecting or relating to struc-  
22 tures, processes & premises from the hazard of fire & explosion arising from the storage, han-  
23 dling, or use of structures, materials, or devices; from conditions hazardous to life, property, or  
24 public welfare in the occupancy of structures or premises; and from the construction, extension,  
25 repair, alteration or removal of fire suppression systems or alarm systems or fire hazards in the  
26 structure or the premises from occupancy or operation.

27 Energy: Applies to residential & commercial buildings. Applies statewide and shall not be made  
28 more stringent or lenient by local government action. Regulates designs, construction of build-  
29 ings for effective use of energy intended to provide flexibility to permit use of innovative ap-  
30 proaches & techniques to achieve effective use of energy. No intended to abridge safety, health  
31 or environmental requirements in other applicable laws, codes or ordinances.

32 Accessibility: Applies during the design, construction, additions to, and alteration of sites, facili-  
33 ties, buildings, and elements. Applies to: All areas of newly designed and newly constructed  
34 buildings and facilities as determined by the ADA Standards for Accessible Design; portions of  
35 altered buildings and facilities as determined by the ADA Standards for Accessible Design; a  
36 building or facility that is being converted from residential to nonresidential or mixed use as de-  
37 fined by the Florida Building Code where such building or facility must, at a minimum, comply  
38 with s. 553.508, F.S., and the requirements for alterations as determined by the ADA Standards  
39 for Accessible Design; buildings and facilities where the original construction or any former al-  
40 teration or renovation was carried out in violation of applicable permitting law. Applies to all new  
41 or altered public buildings and facilities, private buildings and facilities, places of public accom-  
42 modation, and commercial facilities subject to the accessibility code. Establishes standards for  
43 accessibility to places of public accommodation and commercial facilities by individuals with  
44 disabilities. Also applies to private clubs pursuant to Section 553.505, F.S.; and to residential  
45 buildings pursuant to Section 553.504(2), F.S., and the ADA Standards for Accessible Design. It  
46 is to be applied during the design construction and alteration of such buildings and facilities as  
47 required by this code. This code establishes standards for accessibility to places of public ac-

1 accommodation and commercial facilities by individuals with disabilities. All new or altered private  
2 buildings and facilities, places of public accommodation and commercial facilities subject to this  
3 code shall comply with this code. This code is not intended to expand or diminish the defenses  
4 available to a place of public accommodation or a commercial facility under the Americans with  
5 Disabilities Act and the ADA Standards for Accessible Design, including, but not limited to, the  
6 readily achievable standard, and the standards applicable to alterations to places of public ac-  
7 commodation and commercial facilities

8 It shall be the responsibility of each local government and each code enforcement agency es-  
9 tablished pursuant to Section 553.80 to enforce the provisions of this part. This act expressly  
10 preempts the establishment of handicapped accessibility standards to the state and supersedes  
11 any county or municipal ordinance on the subject. However, nothing in this section shall prohibit  
12 municipalities and counties from enforcing the provisions of this act.

13 Manufactured Homes: All mobile/manufactured homes must be constructed in accordance with  
14 regulations of the U.S. Department of Housing and Urban Development (HUD) which are enti-  
15 tled the Manufactured Housing Construction and Safety Standards. These regulations were  
16 amended in 1994 to better ensure that mobile/manufactured homes can withstand strong winds.  
17 In addition, all mobile/manufactured homes must be installed in accordance with Rule Chapter  
18 15C-1, Florida Administrative Code (F.A.C.), which is among the most stringent mo-  
19 bile/manufactured home installation standards in the United States. All mobile/manufactured  
20 homes that are installed in Florida must be installed by a licensed mobile/manufactured home  
21 installer. Investigations of damage to mobile homes from the 2004 and 2005 hurricanes found  
22 that no homes built subsequent to the new HUD construction regulations sustained any signifi-  
23 cant damage and all homes installed in accordance with Rule 15C-1, F.A.C. tended to also fair  
24 well. To ensure the safety of mobile/manufactured homes there are also restrictions on where  
25 such homes may be set-up. No mobile/manufactured home can be set-up in Florida unless it  
26 was built in accordance with the standards that apply to the Wind Zone applicable to the county  
27 where it is to be set-up.

28 We have included the Tables of Contents in the Appendices for each of the sections. You will no-  
29 ticed how detailed the Codes are, covering every component from flooring to insulation, finishes to  
30 windows, and so on. There is also a Hurricane Protocol section, which defines the test protocols  
31 from roofing and structural components of buildings. We have included the testing protocols for  
32 your reference. The Building Code is available at the myflorida.com website. One cannot reprint or  
33 reproduce the contents of it, without purchasing codes (it is copyrighted by the Florida Building  
34 Commission). Therefore, we have kept our discussion to general issues and contents.

35 Exceptions to the Florida Building Code includes federal buildings, railroad facilities, nonresidential  
36 farm buildings located on farms, temporary construction trailers and facilities, chickees constructed  
37 by the Miccosukees, temporary office structures, or temporary sets for movies or television. Exist-  
38 ing buildings undergoing repair, alteration, addition and change of occupancy must comply with  
39 Chapter 34 of the Code, and detached one and two person dwellings and multiple single family  
40 dwellings with separate entrances that are not more than three stories high must comply with the  
41 residential section of Florida Building Code.

42 The Code does not apply to zoning, land use, or owner specifications or requirements "which do not  
43 pertain to or govern the design, construction, erection, alteration, modification, repair or demolition  
44 of public or private buildings, structures or facilities, or to programmatic requirements" that do not  
45 pertain to the Code. The Code also provides that local governments may not use the Code to pre-  
46 vent the siting of a publicly owned building, such as correctional facilities, juvenile facilities, educa-  
47 tional facilities, etc.

48 The law established the Florida Building Commission to develop and to oversee the implementation

1 and revision of the Florida Building Code. The Commission has 23 members representing Engi-  
2 neers, Architect, Contractors, Building Owners and Insurers, State and Local Government and Per-  
3 sons with Disabilities. The Chairman is appointed by and serves at the pleasure of the Governor.

4 The Florida Building Commission may provide plans review and approval of prototype buildings  
5 owned by public entities (e.g., schools, correctional facilities, and state-owned office buildings).  
6 While local government permits and inspects these buildings, they are exempt from local govern-  
7 ment plan review.

8 The law required the Florida Building Commission to update the Florida Building Code every three  
9 years, although the Commission may amend the code once each year to incorporate interpretations  
10 and update standards necessary to protect the health, safety and welfare of the public. It may also  
11 provide annual updates for amendments that are economically advantageous to consumers.

12 Local governments may amend the Building Code once every six months to address unique local  
13 conditions. Local amendments must be more stringent than the Florida Building Code. Changes to  
14 the Building Code by county and municipal governments are appealable to the Florida Building  
15 Commission. Adopted local amendments are repealed or incorporated into the code every three  
16 years, upon the updating of the Florida Building Code. Local amendments will apply to state or  
17 school district owned buildings, manufactured buildings approved by the Florida Building Commis-  
18 sion, or prototype buildings approved by the Florida Building Commission. All proposed amend-  
19 ments to the code by either the Commission or a local government must contain a Fiscal Impact  
20 Statement.

21 In addition to the Code, the State created a networked education and training system and a uniform  
22 system for the approval of products statewide, as well as procedures for appealing the validity of lo-  
23 cally adopted amendments to the Code and local interpretations of the Code.

24 The State may discipline designers and contractors for repeated violations of code requirements.  
25 Licensed designers and contractors committing violations of code requirements posing significant  
26 threats to the health or safety of building occupants or substantial degradation of a building's sys-  
27 tems can be fined from \$500 to \$5,000, and possibly lose their licenses.

28 Local government plans examiners are charged with interpreting the Florida Building Code during  
29 the plan review process and by the local government building inspector during the construction pro-  
30 cess as necessary. Any disagreement regarding the interpretation will be resolved first by the build-  
31 ing official then by a local board of appeal (if one exists) and finally, by appeal to the Florida Build-  
32 ing Commission. Section 103 defines the duties of building officials. Section 105 identifies when a  
33 permit is required. It says, in part:

34 "Any owner or authorized agent who intends to construct, enlarge, alter, repair,  
35 move, demolish or change the occupancy of a building or structure, or to erect, in-  
36 stall, enlarge, alter, repair, remove, convert, or replace any electrical, gas, mechani-  
37 cal, or plumbing system, the installation of which is regulated by this Code, or to  
38 cause any such work to be done, shall first make application to the building official  
39 and obtain the required permit."

40 The Florida Building Code exempts the following from permits:

- 41 • Gas: Portable heating devices or replacement of any minor part that does not alter approval  
42 of equipment or make the equipment unsafe.
- 43 • Mechanical: Portable heating, ventilation or cooling equipment; steamed, hot or chilled water  
44 piping within heating or cooling equipment regulated by the Code; replacement of parts that  
45 do not alter approval or make the item unsafe; portable evaporative coolers; small self-  
46 contained refrigeration systems; installation, removal or metering of local control devices.



- 1 • Plumbing: stopping of leaks in drains, water, soil, waste or vent pipes, unless the pipe is de-  
2 fective or requires replacement; clearance of stoppages and repair of leaks in pipes, valves  
3 or fixtures, and the removal and reinstallation of water closets (toilets), as long as pipes,  
4 valves and fixtures are not being replaced.

5 Note, however, county and municipal governments may require permits for some or all of the above  
6 activities.

7 All products must comply with standards established by the code and the Building Official must ap-  
8 prove their use. The Building Code includes criteria for approval of entities that test, evaluate and  
9 certify products used to construct or modify buildings. Evaluation entities conduct product evalua-  
10 tions based on tests reports, and/or rational analysis. Testing labs conduct product tests. Certifica-  
11 tion agencies evaluate products based on tests and/or rational analysis; conduct quality assurance;  
12 certify compliance with standards; and list and label products. The State has established quality  
13 assurance programs to monitor manufacturing production of approved products. Validation entities  
14 certify compliance with standards and certify to the Florida Building Commission that product ap-  
15 proval applications are correct. Below we have listed products that must be approved by local  
16 building departments using this system or the manufacturer has the option of seeking state approv-  
17 al by the Florida Building Commission:

- Panel Walls
- Exterior Doors
- Skylights
- New and Innovative Building Envelope Products
- Roofing Products
- Windows
- Shutters
- Structural Components

18 All products in the eight categories must be manufactured with a quality assurance program in  
19 place, monitored by a Commission approved quality assurance entity.

20 The following products are exempt:

- 21 ■ Structural components covered by United States Department of Commerce Product Stand-  
22 ards;
- 23 ■ Structural components comprised of materials or products that are assembled or placed in  
24 the field may demonstrate compliance by a batch ticket or bill of lading made available at the  
25 site of assembly or placement; and
- 26 ■ “Products which are custom fabricated or assembled shall not require separate approval  
27 under this section provided the component parts have been approved and the components  
28 meet the standards and requirements of the Florida Building Code.”

29 A local building official may deny the use of a product if he substantiates that the product applica-  
30 tion is inconsistent with the statewide approval. That denial is reviewable by a local board of appeal  
31 (if one exists) and then by the Florida Building Commission. The Commission’s statewide approval  
32 is also subject to review. A product may be approved for local use only by a local jurisdiction.

33 As we can see, the Florida Building Code is a complex document, one that requires a significant  
34 expertise to understand and use. It is important to note that the Florida Building Code includes “use  
35 and occupancy” and “maintenance of buildings and structures. If an association fails to properly  
36 maintain its buildings and structures, local building officials can require that repairs be made, and  
37 may, of they consider the problems significant enough, force residents to move from the building  
38 until and unless the association brings the building into compliance with the Florida Building Code  
39 and any local amendments. We have seen this happen to a number of older associations over the  
40 past few years, many due to concrete deterioration.

1 Managers should not expect to be experts in the Florida Building Code. However, they should be-  
2 come familiar with it generally, and should rely upon general contractors and other experts to cor-  
3 rectly interpret and implement it. Additional information on the Florida Building Code is available on  
4 line at [http://www2.iccsafe.org/2004\\_florida\\_codes/](http://www2.iccsafe.org/2004_florida_codes/).

### 5 Underground Storage Tanks

6 An underground storage tank system (UST) is a tank and any underground piping connected to the  
7 tank that has at least 10 percent of its combined volume underground. The federal UST regulations  
8 apply only to underground tanks and piping storing either petroleum or certain hazardous substanc-  
9 es. Several hundred substances were designated 101(14) of the Comprehensive Environmental  
10 Liability Act of 1980 (CERCLA). An association may use a UST to store fuel to power emergency  
11 generators emergency. Some large associations may have onsite USTs in which fuel for equip-  
12 ment or vehicles are stored.

13 The U.S. Environmental Protection Agency (EPA) estimates that over one million underground  
14 storage tank systems (USTs) in the United States contain petroleum or hazardous substances.  
15 Many of these USTs have leaked or are currently leaking. Releases from USTs--from spills, over-  
16 fills, or leaking tanks and piping can cause fires or explosions that threaten human safety. Releases  
17 from USTs can also contaminate the underground drinking water. Federal legislation directed the  
18 EPA to develop the UST regulations that require owners and operators of USTs to detect and cor-  
19 rect problems created by releases from USTs. Congress also banned the installation of unprotect-  
20 ed steel tanks and piping beginning in 1985. In addition, the regulations require owners and opera-  
21 tors of USTs to demonstrate their ability to pay for correcting the problems created if their USTs do  
22 leak.

23 In 1986, Congress created the Leaking Underground Storage Tank Trust Fund, which is to be used  
24 for two purposes:

- 25 1. To oversee cleanups by responsible parties.
- 26 2. To pay for cleanups at sites where the owner or operator is unknown, unwilling, or unable to  
27 respond, or which require emergency action.

28 The 1986 amendments also established financial responsibility requirements, which require UST  
29 owners and operators to demonstrate they are financially capable of cleaning up releases and  
30 compensating third parties for resulting damages.

31 Certain USTs do not need to meet federal requirements, including:

- 32 • Farm and residential tanks of 1,100 gallons or less capacity holding motor fuel used for non-  
33 commercial purposes
- 34 • Tanks storing heating oil used on the premises where it is stored
- 35 • Tanks on or above the floor of underground areas, such as basements or tunnels
- 36 • Septic tanks and systems for collecting storm water and wastewater and Flow-through pro-  
37 cess tanks
- 38 • Tanks of 110 gallons or less capacity
- 39 • Emergency spill and overfill tanks.

40 Florida has specific requirements for some of these tanks, which we will discuss later in this chap-  
41 ter.

42 In 1988, EPA issued UST regulations divided into three sections: technical requirements, financial  
43 responsibility requirements, and state program approval objectives (as described below). EPA's

1 technical regulations for USTs are designed to reduce the chance of releases from USTs, detect  
2 leaks and spills when they do occur, and secure a prompt cleanup. UST owners and operators are  
3 responsible for reporting and cleaning up any releases. The financial responsibility regulations de-  
4 signed to ensure that, in the event of a leak or spill, an owner or operator will have the resources to  
5 pay for costs associated with cleaning up releases and compensating third parties. EPA recognizes  
6 that, because of the large size and great diversity of the regulated community, state and local gov-  
7 ernments are in the best position to oversee USTs. Subtitle I of RCRA allows state UST programs  
8 approved by EPA to operate in lieu of the federal program, and EPA's state program approval regu-  
9 lations set standards for state programs to meet.

10 The EPA publishes several guides to UST requirements, including Musts For USTs: A Summary Of  
11 Federal Regulations For Underground Storage Tank Systems. We recommend that, if your associ-  
12 ation has a UST, you obtain a copy of this document. Additional information can also be found at  
13 <http://www.epa.gov/swerust1/>.

#### 14 **Elevator Safety (Chapter 399, F.S.)**

15 The Elevator Safety Act applies to elevators, escalators, personnel and material hoists, man lifts,  
16 mobile scaffolds, towers and platforms, cranes, derricks, tiered or piling machines, wharf ramps, au-  
17 tomobile parking lifts, power-driven walkways, and other mobile hoisting or lifting machines or  
18 equipment. It provides design and construction standards, requirements for operation, inspection,  
19 testing, and maintenance. The Act also identifies the requirements in altering and repairing eleva-  
20 tors and other mobile equipment. It also outlines elevator accessibility requirement for physically  
21 disabled persons. The Act provides that certificates of operations cannot be issues for more than 2  
22 years (24 months), and requires inspections prior to issuance of new certificates of operation. It  
23 requires any entity with an elevator or other equipment covered within the Act to annually file a  
24 statement verifying the existence and performance of each service maintenance contract, and to  
25 notify the Division of Hotels & Restaurants whenever a contract is cancelled or terminated.

26 The Act requires buildings to notify the Division of Hotels & Restaurants within 5 working days after  
27 any accident, and provides a fine of up to \$1,000 for failure to do so. The Act also provides of penal-  
28 ties and disciplinary procedures for violations of the Act.

29 The Act establishes an Elevator Safety Technical Committee, with the requirement that it annually  
30 review the Safety Code for Elevators and Escalators and related codes and recommend to the Flor-  
31 ida Building Commission revisions to protect the public health, safety and welfare.

32 Chapter 61C-5, Florida Elevator Safety Code, of the Florida Administrative Code provides additional  
33 detail for operation, alterations and repair of elevator and other covered equipment. It incorporates  
34 by reference the American National Standard Safety Code for elevators and escalators (ASME A,  
35 17.1), the American National Standard Inspectors Manual for Electric Elevators (ASME 17.2.1), the  
36 Uniform Fire Safety Standards for Elevators (Chapter 4A-47, F.A.C.), among others. This Chapter  
37 also provides numbering rules for elevators, provides rules for installation and use of emergency  
38 stop and In-Car stop switches, and outlines fees and costs. Subsection 61C-5.004 specifically out-  
39 lines where and how bulletin boards in an elevator may be placed, the materials to be used, and the  
40 manner in which the bulletin board must be secured.

41 Managers should include a copy of Chapter 399, F.S., and Chapter 61C-5, F.A.C., in their reference  
42 book of pertinent laws and regulations.

#### 43 **Fire Safety Code**

44 Chapter 633, Florida Statutes establishes the Fire Safety Code (Florida Administrative Code  
45 [F.A.C.] 69A-60). It names the Chief Financial Officer as "State Fire Marshal." The State Fire Mar-  
46 shal adopts rules consistent with National Fire Protection Association's Standard 1, Fire Prevention

1 Code to “protect all Floridians from fire hazards with the social and economic inconveniences that  
2 may be caused or created by the rules.” Incorporated into the rules are the Florida Fire Prevention  
3 Code and the Life Safety Code. The statutes hold the State Fire Marshal responsible for minimizing  
4 loss of life and property due to fire. He also enforces all laws and provisions for:

- 5 • Prevention of fire and explosion through the regulation of conditions which could cause fire  
6 or explosion, the spread of fire, and panic resulting fires or explosions
- 7 • Installation & maintenance of fire alarm systems and fire protection systems, including fire  
8 suppression systems, fire-extinguishing equipment, and fire sprinkler systems
- 9 • Servicing, repairing, recharging, testing, marking, inspecting, installing, maintaining, and  
10 tagging of fire extinguishers, pre-engineered systems, and individually designed fire protec-  
11 tion systems
- 12 • Training and licensing of professionals who service, repair, recharge, test, mark, inspect, in-  
13 stall, maintain, and tag fire extinguishers, reengineered systems, and individually designed  
14 fire protection systems
- 15 • Maintenance of fire cause and loss records
- 16 • Suppression of arson and the investigation of the cause, origin, and circumstances of fire.

17 The Fire Marshall is required to review the Fire Code every three years. Generally, the State Fire  
18 Marshall delegates his responsibility to local county or municipal fire officials. However, in counties  
19 where there are no fire officials, the State Fire Marshall takes responsibilities for the functions de-  
20 scribed above.

21 Local governments can apply to have amendments added to the Fire Code, which the Fire Marshall  
22 can adopt for the entire state, permit for that local jurisdiction only, or reject

23 The law gives the Fire Marshall the right to adopt uniform fire safety standards to “protect the public  
24 health, safety, and welfare governing the construction and utilization of certain buildings and struc-  
25 tures.” These standards apply to:

- 26 • All new, existing, and proposed state-owned and state-leased buildings
- 27 • All new, existing, and proposed hospitals, nursing homes, assisted living facilities, adult fam-  
28 ily-care homes, correctional facilities, public schools, transient public lodging establishments,  
29 public food service establishments, elevators, migrant labor camps, mobile home parks,  
30 lodging parks, recreational vehicle parks, recreational camps, residential and nonresidential  
31 child care facilities, facilities for the developmentally disabled, motion picture and television  
32 special effects productions, and self-service gasoline stations.

33 A local government may not require more stringent uniform fire safety standards except to meet  
34 special situations arising from historic, geographic, or unusual conditions. It may authorize equiva-  
35 lent alternative standards for buildings or structures as long as the standards are not less stringent  
36 than the State standards. Local governments can require more stringent uniform fire safety stand-  
37 ards for sprinkler systems in buildings for which the construction contract is let after January 1,  
38 1994, if the local government has adopted by ordinance:

- 39 • A fire service facilities and operation plan that outlines goals and objectives for related  
40 equipment, personnel, and capital improvement needs of the local authority for the next 5  
41 years
- 42 • A provision requiring proportionate reductions in, or rebate or waivers of, impact or other  
43 fees or assessments levied on buildings that are built or modified in compliance with the  
44 more stringent sprinkler standards

- 1 • A plan that requires buildings specified to be equipped with an automatic sprinkler system  
 2 installed in compliance with the provisions prescribed in standards as established by the Na-  
 3 tional Fire Protection Association and adopted by the State Fire Marshal.
- 4 Chapter 633 also establishes a Fire Safety Board, which serves in an advisory capacity to the Fire  
 5 Marshall regarding rules, codes, standards, interpretations, and training.
- 6 Some of the standards of the Florida Fire Code (F.A.C. 69A-60) include:
- Portable Fire Extinguishers
  - Medium- and High-Expansion Foam Systems<sup>1,2</sup>
  - Halon 1301 Fire Extinguishing Systems
  - Installation of Air-Conditioning and Ventilating Systems
  - Types of Building Construction
  - Ovens & Furnaces
  - Dry & Wet Chemical Extinguishing Systems
  - National Electrical Code
  - Fire Doors and Fire Windows
  - Fire Tests of Roof Coverings
  - Low-Expansion Foam
  - Carbon Dioxide Extinguishing Systems
  - Installation of Sprinkler Systems
  - Emergency and Standby Power Systems
  - Fire Walls and Fire Barrier Walls
  - Fire Hose Connections
  - Fire Test for Window and Glass Block Assemblies<sup>3</sup>
  - National Fire Alarm Code<sup>4</sup>
  - Incinerators and Waste and Linen Handling Systems and Equipment
  - Fire Characteristics of Mattresses and Bedding Assemblies
- 7 The State Fire Code requires that high-rise buildings have an approved, supervised automatic  
 8 sprinkler system, with certain exceptions. Additionally, the Fire Code requires high-rise building to  
 9 have engineered life safety systems, such as hard-wired alarm systems and fire doors. The Code  
 10 defines a high-rise building as any building greater than 75 feet. However, Condominium, coopera-  
 11 tive or multi-family residential building less than four (4) stories with corridor providing means of  
 12 egress is exempt from installing manual fire alarm system.

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<sup>1</sup> **Compressed Air Foam System (CAFS).** A system employing compressed air foam discharge devices or hoses attached to a piping system through which foam is transported from a mixing chamber. Discharge of CAFS begins with automatic activation of a detection system, or manual actuation that opens valves permitting compressed air foam generated in the mixing chamber, to flow through a piping system and discharged over the area served by the discharge devices or hoses.

<sup>2</sup> Medium-expansion foams are utilized for poisonous vapor or fume suppression. High-expansion foams are best suited for three-dimensional fires, but are also utilized to suppress liquid spill fires.

<sup>3</sup> This standard prescribes standardized fire and hose stream test procedures that apply to the evaluation of fire window assemblies, including windows, glass block, and other light-transmitting assemblies intended to retard the spread of fire through openings in fire resistance-rated walls. This standard provides a method for comparing the performance of fire window assemblies.

<sup>4</sup> Covers the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire warning equipment and emergency communications systems (ECS), and their components.

1 The Condominium Act, 718.112 (2)(l), F.S., and the Cooperative Act, 719.1055(5), F.S., require  
2 each association to provide a certificate of compliance with applicable fire and life safety codes.  
3 These sections also permit an association to opt out of the retrofit of the common elements and  
4 units with fire sprinkler or other “engineered life safety system” if two-thirds of all voting interests  
5 have voted to forego the retrofit, with the exception of high rise buildings. High-rise associations  
6 are not permitted to opt out of retrofitting fire sprinklers in common areas, including enclosed hall-  
7 ways, corridors, lobbies, stairwells, or entryways. The association must take the opt out vote by  
8 limited proxy or ballot at a duly called member meeting, or by “execution of a written consent” of a  
9 meeting. Associations opting out of the requirement must annually provide notice to unit owners  
10 within 30 days after the vote, must give notice to each new owner or lessee, and must send a notice  
11 to the State Division of Florida Land Sales, Condominiums & Mobile Homes (DFCTSMH) of the opt  
12 out. If the association chooses to retrofit, it must report the per-unit cost of the retrofit to  
13 DFCTSMH. By December 31, 2016, associations not in compliance with requirements of fire sprin-  
14 kler system and not voted to forego retrofitting must initiate application for building permit for re-  
15 quired installation demonstrating that association will become compliant by December 31, 2019.

16 Florida statutes require that housing for older persons be protected by approved, handrails and  
17 guardrails<sup>5</sup> no later than January 1, 2014. This includes common elements, limited common ele-  
18 ments and units. An association must provide certificate of compliance from licensed electrical con-  
19 tractor or electrician as evidence of compliance with applicable handrails and guardrails. Common  
20 areas means stairwells and exposed, outdoor walkways and corridors. Members may vote to forego  
21 retrofitting handrails and guardrails by affirmative vote of two-thirds of all voting interests. However,  
22 association may not vote to forego retrofitting with handrails and guardrails of common areas in a  
23 high-rise building. Members must vote by ballot personally cast at duly called membership meeting,  
24 or by execution of written consent by member. A vote to forego retrofitting is effective upon record-  
25 ing of certificate attesting to such vote in public records of county where association is located. The  
26 association must provide each member written notice of results of vote to forego retrofitting of re-  
27 quired handrails or guardrails, or both, in at least 16-point bold type, by certified mail, within 20 days  
28 after association’s vote. After such notice is provided to each member, copy of such notice shall be  
29 provided by current member to new member prior to closing date of sale and shall be provided by  
30 member to renter prior to signing a lease. DFCTSMH must report annually to Division of State Fire  
31 Marshal in Department of Financial Services the number of condominiums that have elected to  
32 forego retrofitting.

33 The Code requires that all units and common areas have hard-wired smoke detectors. Additionally,  
34 the Code requires a minimum number of fire extinguishers, based upon the type building, number of  
35 floors, associated facilities, etc. Uniform Fire Code (NFPA 1, paragraph 10.11.7) prohibits any mul-  
36 ti-unit building (of more than 2 units), from using a hibachi,<sup>6</sup> gas fire grill, charcoal grill, or similar  
37 device for cooking, heating or any other purpose on a balcony or overhanging portion of building, or  
38 within 10 ft. of any structure. In most counties and municipalities, fire official inspect buildings on an  
39 annual basis, to verify that required equipment, including smoke detectors and fire extinguishers,  
40 are present and working. We recommend that managers obtain a copy of the specific requirements  
41 from their local fire department. We also recommend that managers check fire extinguishers and  
42 smoke detectors and notify owners of necessary repairs, and make repairs to common elements as  
43 part of the annual unit inspection process.

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<sup>5</sup> A railing at the side of a staircase or balcony to prevent people from falling.

<sup>6</sup> A portable barbecue of Japanese design, with a base for the fire with vents under it and one or more ad-justable cooking racks

**Pool Requirements**

As discussed in the Community Association Manager prelicensure course, Chapter 514, F.S. and F.A.C. 64E-9 regulate “public” swimming pools and spas. The statute defines a public swimming pool as “a watertight structure of concrete, masonry or other approved materials,” located indoors or outside, used for “bathing or swimming by humans.” Public swimming pools use filtered disinfected water. All associations having a pool or spa with 33 or more units are regulated by the State Department of Health. The Department issues an annual operating license, which is to be posted in a conspicuous place.

Pools must comply with the federal Virginia Graeme Baker Pool and Spa Safety Act by requiring public swimming pool & spa drain covers & grates to be equipped with an anti-entrapment system or device. Pools built before 1/1/1993, with a single main drain, must be equipped with at least one of the following:

- Safety vacuum release system that stops operation of the pump; reverses circulation flow, or otherwise provides a vacuum release at a suction outlet when a blockage is detected
- A suction limiting vent system with a tamper-resistant, atmosphere
- An automatic pump shut-off system
- A gravity drainage system that uses a collector tank
- A device or system that disables the drain

Requirements for public swimming pools include the following:

- pool covers and blankets can be used only when pool is closed
- dressing rooms must have a smooth slip-resistant floor finish and slope to floor drains
- pH of the pool water must be maintained at 7.2-7.8
- free active chlorine residual must be at least one part per million
- artificial lighting must be provided at all swimming pools that are used at night

F.A.C. 64E-9.004 details the operational requirements for pools and spas – water quality, chemical content, bacteriological quality, etc. The chemical specifications include:

- shepherd’s hook attached to pole not less than 16 feet in length
- minimum of one 19 inch diameter lifesaving ring with sufficient rope to reach all parts of the pool
- pools greater than 50 feet must have multiple shepherds’ hooks and at least one lifesaving ring per side
- spas and wading pools under 200 square feet are exempt
- depth and other warnings such as no diving must be permanently set onto the coping and pool deck in a tile or like material; stenciling is no longer permitted.

Posted rules must include:

- hours of operation
- maximum number of persons who may be in pool
- requirement to shower before entering the pool
- requirement banning food, drink, or animals from pool or pool deck.

1 The State requires that the association test the pool water every 24 hours to ensure that it main-  
2 tains the correct chlorine and PH levels. For a manager who works only 5 days a week, this means  
3 he should use a maintenance or cleaning person who works weekends, or find a volunteer, to read  
4 and log the chemical balance. Pool waste water must be cleaned before re-entering the pool.  
5 Swimming pools are required to have one turnover of water every 6 hours, and spas are required to  
6 have a minimum of one turnover every 30 minutes. The turnover rate determines the size of the  
7 pump needed; for a 100,000 gallon pool to turn over every size hours, the pump must remove 278  
8 gallons a minute. The Department of Health must approve any changes in the system used to  
9 clean the waste water. New pools are required to have automated feeders for their chemicals.  
10 These feeders monitor the chemical balances throughout the day, and make adjustments to keep  
11 the chemicals at the appropriate level.

12 A few of the additional requirements include:

- 13 • Pool free of floating materials, sediment, dirt, algae
- 14 • Main drain is visible, and gutters/drains covered by a fully intact grate.
- 15 • Skimmers have weir in place
- 16 • Life hock and life ring with rope is accessible
- 17 • Flow meter is present and working
- 18 • Heated pools and spas have working in-line thermometer
- 19 • Vacuum filter systems have vacuum gauge of 0-30 in Hg on the suction side
- 20 • Pressure filter systems have 0-60 P.S.I gauges mounted before and after the filter
- 21 • Equipment room has proper drainage, forced or cross ventilation.

22 The Florida Administrative Code also requires that pools use approved and properly sized chlorine  
23 feeders and PH adjustment feeders. It further requires that the PH adjustment feeders must inter-  
24 lock with the recirculation pump.

25 Note that, in many counties, the Department of Health makes periodic unannounced inspections. If  
26 the inspector finds a problem, he may just cite the association, or, if the violation is serious or the  
27 inspector has found the association to be unresponsive in the past, the inspector may close the  
28 pool. The association must correct the problems the inspector found before reopening the pool.

29 Major modifications and repairs to the pool or spa require approval by the Department of Health be-  
30 fore the plans are submitted to the local building code official. If the association does not submit  
31 these and get DOH approval, DOH inspectors can stop the work, or can require that the work be  
32 redone to meet DOH requirements.

33 We recommend that managers use a checklist for daily pool inspections, and incorporate into the  
34 maintenance routine inspecting the pool to assure that it meets all state requirements. Additionally,  
35 the manager should get to know the inspector for his area. A cordial relationship helps the associa-  
36 tion. For instance, an inspector may give the manager advance notice of a problem before he is-  
37 sues an official report, thus giving the manager time to correct the problem.

### 38 **Mangrove Protection**

39 Mangroves are trees that grow in intertidal salty environments because they can tolerate frequent  
40 flooding and are able to obtain fresh water from salt water. Some species secrete excess salt  
41 through their leaves, whereas others block absorption of salt at their roots.

42 Florida's estimated 400,000–500,000 acres of mangrove forests contribute to the overall health of



1 the state's southern coasts. Mangroves trap and cycle pollutants, chemical elements, and inorganic  
2 nutrients. Mangrove roots not only act as physical traps but also provide attachment surfaces for  
3 marine organisms such as barnacles and oysters. Many of these attached organisms, especially  
4 blue-green algae, filter water and trap and cycle nutrients. The importance of mangroves to their  
5 associated marine life cannot be overemphasized. Mangroves provide protected nursery areas for  
6 fish, crustaceans, and shellfish. They also function as the basis of the food chain for a multitude of  
7 marine species such as snook, snapper, tarpon, jack, sheepshead, red drum, oysters, crabs, and  
8 shrimp. Florida's important recreational and commercial fisheries will drastically decline without  
9 healthy mangroves. Animals find shelter in mangrove roots and branches, and the branches serve  
10 as rookeries (nesting areas) for coastal birds such as egrets, herons, brown pelicans, and roseate  
11 spoonbills. Many migratory birds also depend on large mangroves for food and shelter.

12 People living along south Florida coasts benefit in many ways from mangroves. In addition to  
13 providing fish habitats, mangrove forests protect uplands from storm winds, waves, and floods. The  
14 amount of protection afforded by mangroves depends upon the width of the forest. A very narrow  
15 fringe of mangroves offers less protection, but a wide expanse of forest can absorb wave energy  
16 and thus considerably reduce water damage to property. Mangroves help prevent erosion by stabi-  
17 lizing shorelines with their specialized root systems. They also remove pollutants and, by slowing  
18 wave action, maintain water quality and clarity.

19 Although mangroves can be damaged by natural events, human destruction of mangroves has  
20 been extensive. State and local regulations have been enacted to protect Florida's mangrove for-  
21 ests. Mangroves cannot be removed, pruned, or disturbed on either state or private land without a  
22 permit from the Department of Environment Protection (DER). Sections 403.9321-403.9333, FS.,  
23 Mangrove Trimming and Preservation Act, protects mangroves, provides conditions under which  
24 mangroves may be trimmed or removed, and defines remediation efforts required when mangroves  
25 are removed. F.S. 403.9323, states, in part:

- 26 • Prohibits trimming or alteration of mangroves on uninhabited islands which are publicly  
27 owned or on lands set aside for conservation and preservation, or mitigation, except where  
28 necessary to protect the public health, safety, and welfare, or to enhance public use of, or  
29 access to, conservation areas in accordance with approved management plans.
- 30 • Allows mangrove trimming in riparian mangrove fringes without prior government approval  
31 when the trimming activities will not result in the removal, defoliation, or destruction of the  
32 mangroves.
- 33 • Encourages waterfront property owners to voluntarily maintain mangroves, encourage man-  
34 grove growth, and plant mangroves along their shorelines.
- 35 • Requires trimming of mangroves on multifamily residential unit sites in an equitable distribu-  
36 tion of the riparian rights provided herein.

37 "Riparian mangrove fringe" are mangroves growing along the shoreline on private property, proper-  
38 ty owned by a governmental entity, or sovereign submerged land. They do not include mangroves  
39 on uninhabited islands, or public lands that have been set aside for conservation or preservation, or  
40 mangroves on lands that have been set aside as mitigation.

41 The department can delegate its authority to regulate trimming and alteration of mangroves to local  
42 governments, upon its request. Those counties to which DER has delegated responsibility for  
43 mangroves can further delegate their authority to municipalities. The county or municipality then is  
44 responsible for regulating mangroves also issues permits for trimming and maintaining them.  
45 Counties and municipalities may have more stringent requirements for trimming mangroves, alt-  
46 hough they cannot prohibit trimming altogether. The statutes prohibit anyone from altering or trim-  
47 ming any mangrove without the express permission of DER or the county or local government, as

1 applicable. Individuals must consider alternatives to reduce or mitigate the impact on mangroves.

2 DER requires a general permit to trim mangroves when:

- 3 • The trimming is supervised or conducted exclusively by a professional mangrove trimmer
- 4 • The mangroves subject to trimming under the permit do not extend more than 500 feet  
5 waterward as measured from the trunk of the most landward mangrove tree in a direction  
6 perpendicular to the shoreline
- 7 • No more than 65 percent of the mangroves along the shoreline which exceed 6 feet in  
8 pretrimmed height as measured from the substrate will be trimmed, and no mangrove will be  
9 trimmed so that the overall height of any mangrove is reduced to less than 6 feet as meas-  
10 ured from the substrate; and
- 11 • No herbicide or other chemical will be used for the purpose of removing leaves of a man-  
12 grove.
- 13 • The mangroves are located on lands owned or controlled by the professional mangrove  
14 trimmer or by the person contracting with the professional mangrove trimmer to perform the  
15 trimming activities, or on sovereign submerged lands immediately waterward and perpen-  
16 dicular to such lands.
- 17 • The trimming is limited to those portions of branches or trunks of mangroves which extend  
18 into the navigation channel beyond a vertical plane of the most waterward prop root or root  
19 system.

20 DER requires that trimming be conducted in stages so that no more than 25 percent of the foliage is  
21 removed annually. Associations must file a notice of intent to trim and receive a permit prior to be-  
22 ginning the trimming. When mangroves are trim on multifamily properties, such as within an asso-  
23 ciation, the 65-percent shoreline trimming limit must be equitably distributed so that each owner's  
24 riparian view is similarly affected.

25 DER requires any area in which 5 percent or more of the trimmed mangrove trees have been  
26 trimmed below 6 feet in height, destroyed, defoliated, or removed as a result of trimming be re-  
27 stored or mitigated. The association must accomplish restoration by replanting mangroves, in the  
28 same location and of the same species as the mangroves destroyed, defoliated, removed, or  
29 trimmed, to achieve within 5 years a canopy area equivalent to the area affected. Additionally,  
30 where all or a portion of the restoration or mitigation is not practicable, the association must offset  
31 the damage by donating a sufficient amount of money to offset the impacts, to be used for the res-  
32 toration, enhancement, creation, or preservation of mangrove wetlands within a restoration, en-  
33 hancement, creation, or preservation project approved by the department or delegated local gov-  
34 ernment, or by purchasing credits from a mitigation bank at a mitigation ratio of 2-to-1 credits to af-  
35 fected area. The donation must be equivalent to the cost based on canopy area. The donation may  
36 not be less than \$4 per square foot of created wetland area.

37 DER takes preservation of mangroves seriously. Associations that have improperly trimmed or re-  
38 moved mangroves have faces significant fines and have been required to pay substantial amounts  
39 of money to replace the mangroves damaged or destroyed. We strongly recommend that the man-  
40 ager work closely with DER or the applicable county or local government to assure mangrove trim-  
41 ming is properly performed.

#### 42 **Green Buildings & LEED Program**

43 While routine and unscheduled maintenance are not conducive to creating a green, environmentally  
44 friendly building, preventive maintenance is a good time to consider transforming certain compo-  
45 nents, equipment, and machinery to more environmentally healthy systems.

1 Green Building, also known as green construction or sustainable building, is the practice of creating  
2 structures and using processes that are environmentally responsible and resource-efficient  
3 throughout a building's life-cycle: from siting to design, construction, operation, maintenance, reno-  
4 vation, and deconstruction. This practice expands and complements the classical building design  
5 concerns of economy, utility, durability, and comfort.

6 Although new technologies are constantly being developed to complement current practices in cre-  
7 ating greener structures, the common objective is that green buildings are designed to reduce the  
8 overall impact of the built environment on human health and the natural environment by:

- 9 • Efficiently using energy, water, and other resources
- 10 • Protecting occupant health and improving employee productivity
- 11 • Reducing waste, pollution and environmental degradation

12 A similar concept is natural building, which is usually on a smaller scale and tends to focus on the  
13 use of natural materials that are available locally. Other related topics include sustainable design  
14 and green architecture.

- 15 • **Materials efficiency:** Building materials typically considered to be 'green' include rapidly re-  
16 newable plant materials like bamboo (because bamboo grows quickly) and straw, lumber  
17 from forests certified to be sustainably managed, ecology blocks, dimension stone, recycled  
18 stone, recycled metal, and other products that are non-toxic, reusable, renewable, and/or  
19 recyclable (e.g. Trass, Linoleum, sheep wool, panels made from paper flakes, compressed  
20 earth block, adobe, baked earth, rammed earth, clay, vermiculite, flax linen, sisal, seagrass,  
21 cork, expanded clay grains, coconut, wood fiber plates, calcium sand stone, concrete (high  
22 and ultra high performance, roman self-healing concrete), etc.) The EPA (Environmental  
23 Protection Agency) also suggests using recycled industrial goods, such as coal combustion  
24 products, foundry sand, and demolition debris in construction projects. Polyurethane heavily  
25 reduces carbon emissions as well. Polyurethane blocks are being used instead of CMTs by  
26 companies like American Insulock. Polyurethane blocks provide more speed, less cost, and  
27 they are environmentally friendly. Building materials should be extracted and manufactured  
28 locally to the building site to minimize the energy embedded in their transportation. Where  
29 possible, building elements should be manufactured off-site and delivered to site, to maxim-  
30 ize benefits of off-site manufacture including minimizing waste, maximizing recycling (be-  
31 cause manufacture is in one location), high quality elements, better OHS management, less  
32 noise and dust.

- 33 • **Energy efficiency:** Green buildings often include measures to reduce energy use. To in-  
34 crease the efficiency of the building envelope, (the barrier between conditioned and uncon-  
35 ditioned space), they may use high-efficiency windows and insulation in walls, ceilings, and  
36 floors. Another strategy, passive solar building design, is often implemented in low-energy  
37 homes. Designers orient windows and walls and place awnings, porches, and trees to  
38 shade windows and roofs during the summer while maximizing solar gain in the winter. In  
39 addition, effective window placement (daylighting) can provide more natural light and lessen  
40 the need for electric lighting during the day. **Solar water heating** further reduces energy  
41 loads.

42 Onsite generation of **renewable energy** through **solar power, wind power, hydro power,**  
43 or **biomass** can significantly reduce the environmental impact of the building. Power gen-  
44 eration is generally the most expensive feature to add to a building.

- 45 • **Water efficiency:** Reducing water consumption and protecting water quality are key objec-  
46 tives in sustainable building. One critical issue of water consumption is that in many areas of

1 the country, the demands on the supplying aquifer exceed its ability to replenish itself. To  
2 the maximum extent feasible, facilities should increase their dependence on water that is  
3 collected, used, purified, and reused on-site. The protection and conservation of water  
4 throughout the life of a building may be accomplished by designing for dual plumbing that  
5 recycles water in toilet flushing. Waste-water may be minimized by utilizing water conserving  
6 fixtures such as ultra-low flush toilets and low-flow shower heads. Bidets help eliminate the  
7 use of toilet paper, reducing sewer traffic and increasing possibilities of re-using water on-  
8 site. Point of use water treatment and heating improves both water quality and energy effi-  
9 ciency while reducing the amount of water in circulation. The use of non-sewage and  
10 greywater for on-site use such as site-irrigation will minimize demands on the local aquifer.

11 Personal temperature and airflow control over the HVAC system coupled with a properly de-  
12 signed building envelope will also aid in increasing a building's thermal quality. Creating a  
13 high performance luminous environment through the careful integration of natural and artifi-  
14 cial light sources will improve on the lighting quality of a structure.

- 15 • Waste reduction: Green architecture also seeks to reduce waste of energy, water and ma-  
16 terials used during construction. During the construction phase, one goal should be to re-  
17 duce the amount of material going to **landfills**. Well-designed buildings also help reduce the  
18 amount of waste generated by the occupants as well, by providing on-site solutions such as  
19 **compost bins** to reduce matter going to landfills.

20 To reduce the impact on wells or water treatment plants, several options exist. "Greywater",  
21 wastewater from sources such as dishwashing or washing machines, can be used for sub-  
22 surface irrigation, or if treated, for non-potable purposes, e.g., to flush toilets and wash cars.  
23 Rainwater collectors are used for similar purposes.

24 Centralized wastewater treatment systems can be costly and use a lot of energy. An alterna-  
25 tive to this process is converting waste and wastewater into fertilizer, which avoids these  
26 costs and shows other benefits. By collecting human waste at the source and running it to a  
27 semi-centralized biogas plant with other biological waste, liquid fertilizer can be produced.  
28 This concept was demonstrated by a settlement in Lubeck Germany in the late 1990s. Prac-  
29 tices like these provide soil with organic nutrients and create carbon sinks that remove car-  
30 bon dioxide from the atmosphere, offsetting greenhouse gas emission. Producing artificial  
31 fertilizer is also more costly in energy than this process.

- 32 • Operations and maintenance optimization: No matter how sustainable a building may have  
33 been in its design and construction, it can only remain so if it is operated responsibly and  
34 maintained properly. Ensuring operations and maintenance (O&M) personnel are part of the  
35 project's planning and development process will help retain the green criteria designed at  
36 the onset of the project. Every aspect of green building is integrated into the O&M phase of  
37 a building's life. The addition of new green technologies also falls on the O&M staff. Alt-  
38 though the goal of waste reduction may be applied during the design, construction and dem-  
39 olition phases of a building's life-cycle, it is in the O&M phase that green practices such as  
40 recycling and air quality enhancement take place.
- 41 • Cost: The most criticized issue about constructing environmentally friendly buildings is the  
42 price. Photo-voltaics, new appliances, and modern technologies tend to cost more money.  
43 Most green buildings cost a premium of <2%, but yield 10 times as much over the entire life  
44 of the building. The stigma is between the knowledge of up-front cost vs. life-cycle cost. The  
45 savings in money come from more efficient use of utilities which result in decreased energy  
46 bills. Also, higher worker or student productivity can be factored into savings and cost de-  
47 ductions. Studies have shown over a 20 year life period, some green buildings have yielded  
48 \$53 to \$71 per square foot back on investment. It is projected that different sectors could

1 save \$130 Billion on energy bills.

2 The Leadership in Energy and Environmental Design (LEED) Green Building Rating System, de-  
3 veloped by the U.S. Green Building Council (USGBC), provides a suite of standards for the envi-  
4 ronmentally sustainable design, construction and operation of buildings and neighborhoods. Since  
5 its inception in 1998, LEED has grown to encompass more than 14,000 projects in the United  
6 States and 30 countries covering 1.062 billion square feet (99 km<sup>2</sup>) of development area. The hall-  
7 mark of LEED is that it is an open and transparent process where the technical criteria proposed by  
8 the LEED committees are publicly reviewed for approval by the more than 10,000 membership or-  
9 ganizations that currently constitute the USGBC.

10 Individuals recognized for their knowledge of the LEED rating system are permitted to use the  
11 LEED Accredited Professional (AP) acronym after their name, indicating they have passed the ac-  
12 creditation exam given by the Green Building Certification Institute (a third-party organization that  
13 handles accreditation for the USGBC).

14 Buildings represent 38.9% of US primary energy use. Buildings are one of the heaviest consumers  
15 of natural resources and account for a significant portion of the greenhouse gas emissions that ef-  
16 fect climate change. In the US, buildings account for 38% of all CO<sub>2</sub> emissions. Buildings represent  
17 72% of US consumption. Building use 13.6% of all potable water, or 15 trillion gallons per year.  
18 Buildings use 40% of raw materials globally (3 billion tons annually).

19 EPA estimates that 136 million tons of building related construction and demolition debris was gen-  
20 erated in the US in a single year. Compare that to 254 million tons of municipal solid waste gener-  
21 ated in the same year. The three largest segments for non-residential green building construction -  
22 office, education and healthcare will account for more than 80% of total non-residential construc-  
23 tion.

24 LEED certified buildings theoretically use resources more efficiently when compared to convention-  
25 al buildings which are simply built to code. LEED certified buildings often provide healthier work and  
26 living environments, which contributes to higher productivity and improved employee health and  
27 comfort. The USGBC has compiled a long list of benefits of implementing a LEED strategy which  
28 ranges from improving air and water quality to reducing solid waste, benefiting owners, occupiers,  
29 and society as a whole.

30 Often when a LEED rating is pursued, this will increase the cost of initial design and construction.  
31 One reason for the higher cost is that sustainable construction principles may not be well under-  
32 stood by the design professionals undertaking the project. This could require time to be spent on  
33 research. Some of the finer points of LEED (especially those which demand a higher-than-industry-  
34 standard level of service from the construction team) could possibly lead to misunderstandings be-  
35 tween the design team, construction team, and client, which could result in delays. Also, there may  
36 be a lack of abundant availability of manufactured building components which meet LEED stand-  
37 ards. Pursuing LEED certification for a project is an added cost in itself as well. This added cost  
38 comes in the form of USGBC correspondence, LEED design-aide consultants, and the hiring of the  
39 required Commissioning Authority (CxA) - all of which would not necessarily be included in an envi-  
40 ronmentally responsible project unless it were also seeking a LEED rating.

41 However, these higher initial costs can be effectively mitigated by the savings incurred over time  
42 due to the lower-than-industry-standard operational costs which are typical of a LEED certified  
43 building. Additional economic payback may come in the form of employee productivity gains in-  
44 curred as a result of working in a healthier environment. Studies have suggested that an initial up-  
45 front investment of 2% extra will yield over ten times the initial investment over the life cycle of the  
46 building.

47 Further, the USGBC has stated support for the Architecture 2030, an effort that has set a goal of

1 using no fossil-fuel, greenhouse gas-emitting energy to operate by 2030.

2 LEED has been innovative in reuse of reclaimed building materials, such as the reusing of asbestos  
3 as the insulation in water heaters, and re-casting used copper pipes into copper fittings. This is es-  
4 timated to have saved close to 5000KW/h's in the United States alone.

5 LEED is a measurement tool for green building in the United States and it is developed and contin-  
6 uously modified by workers in the green building industry, especially in the ten largest metro areas  
7 in the U.S.; however, LEED certified buildings have been slower to penetrate small and mid-major  
8 markets. Also, some criticism suggests that the LEED rating system is not sensitive and does not  
9 vary enough with regard to local environmental conditions. For instance, a building in Maine would  
10 receive the same credit as a building in Arizona for water conservation, though the principle is more  
11 important in the latter case. Another complaint is that its certification costs require money that could  
12 be used to make the building in question even more sustainable. Many critics have noted that  
13 compliance and certification costs have grown faster than staff support from the USGBC.

14 For existing buildings LEED has developed LEED-EB. Recent research has demonstrated that  
15 buildings which can achieve LEED-EB equivalencies can generate a tremendous ROI. In a recent  
16 white paper by the Leonardo Academy comparing LEED-EB buildings vs. data from BOMA's Expe-  
17 rience Exchange Report 2007 demonstrated LEED-EB certified buildings achieved superior operat-  
18 ing cost savings in 63% of the buildings surveyed ranging from \$4.94 to \$15.59 per square foot of  
19 floor space, with an average valuation of \$6.68 and a median valuation of \$6.07.

20 In addition the overall cost of LEED-EB implementation and certification ranged from \$0.00 to \$6.46  
21 per square foot of floor space, with an average of \$2.43 per square foot demonstrating that imple-  
22 mentation is not expensive, especially in comparison to cost savings. These costs should be signifi-  
23 cantly reduced if automation and technology are integrated into the implementation.

24 Gold Coast Professional Schools offers LEED Certifications for the LEED Green Associate. It pro-  
25 vides entry level, basic, general core knowledge in the field. Also available are the LEED AP, and  
26 the LEED Fellow, offered by the US Green Building Council (USGBC). The Council has available  
27 study and reference materials to assist managers who wish to pursue green building alternatives.

### 28 ***Model Green Program***

29 Launched in March 2004, the Florida Green Lodging Program establishes environmental guidelines  
30 for hotels and motels to conserve natural resources and prevent pollution. As reward for designa-  
31 tion, the state recommends designated properties in the Florida Green Lodging Program to compa-  
32 nies and trade organizations seeking environmentally conscious lodging and convention facilities.  
33 Beginning July 1, 2009, the Florida Department of Environmental Protection (DEP) is launching a  
34 restructured Florida Green Lodging Program. The restructured program will save the state money  
35 while continuing to recognize the lodging industry's achievements and strengthening the program's  
36 environmental performance and customer service.

37 Program improvements include:

- 38 • A streamlined online application process.
- 39 • A more robust set of Best Management Practices (BMPs) that will give properties the ability  
40 to customize its conservation efforts. The BMPs will be listed online with helpful supporting  
41 documents to aide in achieving designation quicker.
- 42 • DEP hosted webinars to provide ongoing education to property staff, specifically housekeep-  
43 ing staff.
- 44 • Additional online marketing and educational tools that will be available in multiple lan-  
45 guages.

1 New standards and requirements will include: Extended designation period. Florida Green Lodging  
2 designation will be valid for three years from the date of issuance for new properties with the re-  
3 quirement that properties submit environmental performance data in the categories of water, waste  
4 and energy annually. For properties already designated, the issuance date will be July 1, 2009 and  
5 designated properties will be expected to submit performance data in 2010. To renew designation,  
6 facilities must implement at least two new environmental practices. In addition, properties will be re-  
7 quired to conduct, and document, ongoing employee education to ensure all personnel are imple-  
8 menting the BMPs.

9 DEP will conduct selected facility assessments on a regular basis. If deficiencies are noted, the  
10 Florida Green Lodging Program will offer technical assistance. Consistent failure to correct defi-  
11 ciencies will result in removal from the program. DEP will also follow-up on any complaints made  
12 through the Green Lodging Survey on the DEP website.

13 This a voluntary initiative of the Florida Department of Environmental Protection (DEP) designates  
14 and recognizes lodging facilities that make a commitment to conserve and protect Florida's natural  
15 resources. The program's environmental guidelines allow the hospitality industry to evaluate its op-  
16 erations, set goals and take specific actions to continuously improve environmental performance.

17 The Florida Green Lodging Program is administered primarily online. To become designated, facili-  
18 ties must conduct a thorough property assessment and implement a specified number of environ-  
19 mental practices in six areas of sustainable operations:

- 20 • **Communication and Education (Customers, Employees, Public):** Two of the most im-  
21 portant parts of any environmental plan are the Communication and Education components.  
22 The communication component clearly relays to guests, employees, vendors, suppliers and  
23 contractors the facility's commitment to environmental protection. However, as important as  
24 the communication of environmental practices and achievements is, the only way to enact  
25 sustainable change is to provide some level of education to these groups.
- 26 • **Waste Reduction, Reuse and Recycling:** Florida's tourism industry serves an estimated  
27 40 million visitors annually. More than 50 percent of these visitors are hotel guests during  
28 some portion their stay. The waste generated by these guests constitutes a large portion of  
29 the state's commercial waste stream. A hotel waste audit showed that the majority of waste  
30 in a hotel is not produced in guest rooms, but in the Food and Beverage Department. If a  
31 hotel's waste is not reduced or recycled, it contributes to the state's overall environmental  
32 problems.
- 33 • **Water Conservation:** Many believe water conservation is the biggest environmental chal-  
34 lenge faced by Floridians. It is a precious commodity that tourism and industry depend on  
35 for economic viability. In Florida, the majority of drinking water comes from groundwater aq-  
36 uifers that are replenished by rainfall. Florida must average at least 53 inches of water per  
37 year to avoid drought conditions. During drought conditions, individuals as well as business-  
38 es are asked to conserve water. It is important to conserve water not only during these  
39 times, but every day as well.
- 40 • **Energy Efficiency:** Energy savings means cost savings. Energy is a controllable cost and  
41 many organizations are realizing the cost-benefits of energy reduction. Hotel energy costs  
42 can consume from four to seven percent of a property's revenue, which for many properties  
43 is more than their profit margin. If hotels improve their energy performance by an average of  
44 30 percent, the annual electricity bill savings would be nearly \$1.5 billion. This represents a  
45 savings of approximately \$365 per available room per year for every hotel room in the coun-  
46 try. According the Hospitality Research Group of PKF Consulting, a 10 percent reduction in  
47 energy costs is equivalent to increasing occupancy points by 1.04 and increasing average

1 daily rate by 1.6 percent for a full-service hotel.

- 2 • **Indoor Air Quality:** Over the past few decades, clean air practices have become increas-  
3 ingly important in progressive hotel management. These changes have not only led to an in-  
4 crease in energy efficiency and reduced exposure to health-related liabilities but have also  
5 created positive impacts on the "bottom line" and higher employee and guest satisfaction.
- 6 • **Transportation:** At first glance, transportation issues may not appear to be pertinent to the  
7 day-to-day operations of a lodging facility. However, this could not be further from the truth.  
8 Guests, staff, suppliers, vendors and contractors all use some type of transportation to arrive  
9 at their destination and during their stay. During these travels, not only are vital natural re-  
10 sources consumed, but numerous air pollutants are released into the air during each mile  
11 that is traveled. Many visitors to Florida arrive by automobile or use some form of automo-  
12 bile transportation during their trip, whether it is a day trip to the beach or to drive from one  
13 location to another in our beautiful state. On an average day, more than 44,000 automobiles  
14 enter Florida just through the I-95 and I-75 corridors.

15 The Florida Green Lodging designation is valid for three years from date of issuance. To maintain  
16 designation, properties are required to submit environmental performance data (water, waste, ener-  
17 gy) annually. Properties must also implement at least two new environmental practices from any of  
18 the six areas of sustainable operations.

19 The Florida Green Lodging Program benefits not only the environment but also helps designated  
20 properties save money and increase occupancy rates. By reducing water and energy use and re-  
21 ducing waste generation operating costs go down. Business is generated for state meetings and  
22 conferences through HB 7135 which gives preference to designated Florida Green Lodging proper-  
23 ties. Designated properties also receive marketing and technical assistance benefits through the  
24 Florida Green Lodging Web site, where each designated property is featured and 24/7 Web access  
25 is available to Best Management Practices and Technical Assistance.

## 26 ***Local Laws & Regulations***

### 27 **Building Code**

28 We have previously discussed local amendments to the State Building Code. As a reminder, note  
29 that local amendments to the State Building Code must be more stringent than the minimum state  
30 requirements, but no more stringent than necessary to address a particular local need.

31 Additionally, local governments cannot adopt amendments to the Code more often than every six  
32 months. State law provides detailed requirements that local governments must follow to adopt  
33 amendments to the Code, including format of proposals, timeframes for advertising, public hear-  
34 ings, and provision of evidence of need. If a local government proposes an amendment, the man-  
35 ager and association should carefully review it with the association chief engineer and attorney to  
36 ascertain the impact on the association, if any. The association should attend the public hearing  
37 and provide testimony as to the effect that the amendment will have on the association. Speaking  
38 out against amendments that will increase the burden on an association with little or no benefit is  
39 important. By speaking out, the association may be able to persuade the local government not to  
40 pass, or to modify, the change. Note that counties must have Countywide Compliance Boards to  
41 hear challenges to local amendments – although these Boards do not review or approve Code  
42 amendment, they can make recommendations to the County governing body.

43 Many local governments have building code requirements for signage. Since most associations in-  
44 stall one or more signs that give the name and address of the association, boards should contact  
45 the appropriate building official when it plans to replace or modify its sign. If the association does  
46 not, it may find that the local government has modified signage requirements since the association



1 initially installed its sign, that it must meet new requirements that affect the type of sign it chooses.

2 Example: In Aventura, most developers used pole signs when they constructed buildings in the 70s  
3 and 80s. The Aventura Commission amended the sign code in 1999 to require that associations  
4 use monument signs. One association, unaware of this requirement, spent almost \$7,500 repairing  
5 a pole sign. The Building Code inspector noted the work being performed on the sign, and cited the  
6 association for failing to follow the new code requirements.

### 7 **Building Inspections & Fees**

8 We stated earlier that the Florida Building Code applies to the “construction, alteration, movement,  
9 enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal  
10 or demolition of every building or structure or any appurtenances connected or attached to such  
11 buildings or structures.” It is important to remember that the Florida Building Code includes mainte-  
12 nance of *existing* buildings and structures. If an association does not properly maintain its buildings  
13 and structures, local building officials can require that repairs be made. If they consider the prob-  
14 lems significant enough, force residents to move from the building until and unless the association  
15 brings the building into compliance with the Florida Building Code and any local amendments. Re-  
16 cently, we have seen buildings on Miami Beach and in the City of Miami, among other places, shut  
17 down, because the association had not maintained the building. Many counties and municipalities  
18 have an inspection program, and, as buildings reach a life of 30 or 40 years, building inspectors ex-  
19 amine the buildings to ensure that they are structurally sound, that the pipes and electrical systems  
20 are safe, and that the buildings are suitable for habitation.

21 As a manager, you should advise your association to perform maintenance and upkeep on the as-  
22 sociation property. While some repairs and maintenance seem costly, properly maintaining the as-  
23 sociation’s property now is far less expensive than paying a mortgage and rent, if a building inspec-  
24 tor orders the building vacated. Managers should rely upon professionals to assess the condition of  
25 the structure and its components, and to advice of the actions necessary to bring the facilities up to  
26 code.

27 We will discuss building inspections and fees more fully in Section III of this Chapter.

### 28 **Landscaping & Environmental Requirements**

29 Many counties have environmental requirements similar to those passed by the federal and state  
30 governments. In some cases, the local ordinances do not provide new regulations, but clarify the  
31 manner in which that locale will interpret and enforce federal and state law.

32 Similarly, many local governments have developed landscaping requirements for private and public  
33 sector development. These ordinances generally require that associations use native plant materi-  
34 als, and protect native species of plants, trees, and flowers from removal or destruction. Some  
35 counties and governments have specific ordinances protecting trees, and may require permits to  
36 remove, cut or trim any tree. Some counties and cities prohibit “hat racking” of trees.

37 A manager should contact his local representative and obtain copies of local laws that may affect  
38 the association and its operations and maintenance. It is particularly important that the manager  
39 become familiar with these requirements so that he can properly guide the board of directors.

### 40 **Parking Requirements**

41 Most counties and local governments have developed parking requirements for various types of  
42 buildings. These must be consistent with the ADA and state regulations for size and accommoda-  
43 tion of disabled persons. Generally, the county or municipal government will define the number of  
44 assigned and guest parking spaces an association must have based upon the number of units in  
45 the complex and other amenities offered. These requirements are generally found in the county or  
46 municipal code.

1 Restriping and reconfiguration of parking spaces often requires a permit from the local government.  
2 Although parking contractors are usually familiar, with requirements of local government, we rec-  
3 ommend that the manager check with the local building official when his association wishes to re-  
4 stripe or redesign parking areas.

### 5 **Residents per Unit**

6 Many of the state's condominiums and cooperatives house only one and two bedroom units, in-  
7 tended to house a family of four persons. However, with the influx of immigrants in Florida, the  
8 number of occupants per unit has become an issue for some associations. Some purchasers and  
9 lessees move into a one bedroom with five, six or more persons. These crowded units use more  
10 association resources such as water & sewer, electricity, and parking. Associations facing over-  
11 crowding have attempted to rely upon county or city standards to limit the number of occupants per  
12 unit.

13 Some counties and municipalities do have clear standards regarding the maximum number of per-  
14 sons who can occupy a unit based upon the number of bedrooms, or upon the total square footage  
15 of the unit. Generally, those local governments have established a maximum of two persons per  
16 bedroom. However, some counties and cities have no specific limit. Some attempt to limit the max-  
17 imum number of persons in the unit through defining required bathroom or kitchen facilities per oc-  
18 cupant. For instance, one south Florida County requires that a room can only be used for sleeping  
19 if it has unimpeded access to the bathroom and an individual does not have to pass through another  
20 bedroom to the bathroom.

21 We recommend that the association amend its documents to allow no more than two persons per  
22 bedroom, rather than rely upon a local government ordinance.

### 23 **Relationship between Federal, State & Local Codes & Requirements**

24 As we have seen, Federal, State and local ordinances are often interrelated. Generally, if a Federal  
25 law exists on an issue, the state and local regulations:

- 26 • Provide stricter requirements than federal law
- 27 • Provide guidelines for interpretation of federal law
- 28 • Define how the state or local government will enforce federal law

29 When federal law is different than state or local law, federal law takes precedence, except where the  
30 state or local law is more stringent. Likewise, where state law differs from local law, state law takes  
31 precedence, unless local law is more stringent.

32 We recommend that the manager consult with the association attorney anytime there appears to be  
33 a difference among federal, state and local law.

### 34 **Understanding the Permitting Process**

35 In our discussions of the State Building Code, we stated that local government plan examiners are  
36 charged with interpreting the Florida Building Code during the plan review process and local gov-  
37 ernment building inspector during the construction process as necessary. We also saw that the  
38 Florida Building Code requires plans and permits for many types of work, sometimes even small  
39 projects and repairs. It is not relevant who will perform the work: the association, a contractor, or a  
40 unit owner. For any "construction, alteration, movement, enlargement, replacement, repair, equip-  
41 ment, use and occupancy, location, maintenance, removal or demolition of every building or struc-  
42 ture or any appurtenances connected or attached to such buildings or structures," local government  
43 approval is required.

44 Each county and municipality has a process for submitting plans, pulling permits, and obtaining in-

1 inspections and final approvals. Generally, the process works as follows:

- 2 • The association has learned that it needs to replace the roof, or major rehab on the building,  
3 or some other work that is included in the Florida Building Code.
- 4 • The association's contractor, or an architect draws plans detailing the materials to be used  
5 in the new roof, how the roof will be secured to the building, and other information as re-  
6 quired by Chapter 15 of the Florida Building Code. Note that some projects require that an  
7 architect draw the plans, not the contractor.
- 8 • The association submits the plans, along with the permitting fee, to the county or municipali-  
9 ty responsible for overseeing the Florida Building Code.
- 10 • The county or municipal planning department reviews the plans to assure that they meet all  
11 Florida Building Code requirements, plus any local requirements that have been approved  
12 by the State.
- 13 • If the plans are correct, the planning examiner approves them and issues a permit to the as-  
14 sociation. If the plans do not fully comply, the planning examiner returns them to the asso-  
15 ciation, noting the problems that must be corrected. The association returns the corrected  
16 plans for approval. Usually, no additional fee is required.
- 17 • The permit specifies the steps at which the work must be inspected by the building inspec-  
18 tor. If the work is complex, it is possible that inspectors with different expertise may need to  
19 inspect different aspects of the project as the work progresses.
- 20 • The association should post or otherwise have available the permit describing the work that  
21 will occur. The association advises the contractor or other person performing the work, who  
22 begins the project
- 23 • Depending upon the nature of the work, the contractor may need to periodically stop work  
24 until the building inspector examines and approves that phase of the project. Upon comple-  
25 tion of the entire project, the building inspector provides a final inspection, and, assuming  
26 the work has been performed properly, issues the final approval.
- 27 • The association maintains the final approval with other association records.

28 If the association does not submit plans and pull a permit as required, it may be fined. In some  
29 counties and municipalities, the fines can be double the original permit fee. Additionally, the build-  
30 ing inspector can require that the entire project be removed or that it be partially removed so that he  
31 can determine if the work is properly done – resulting in cost overruns for the association. Addi-  
32 tionally, if an association fails to follow the building code process as required, it may find that the  
33 building code inspector looks closely at all work performed – even minor repairs. Note that many  
34 building inspectors hold the association responsible for projects undertaken by individual unit own-  
35 ers. It is therefore important that associations have in place an architectural request approval pro-  
36 cess for unit owners. As a part of this process, the association should require the unit owner to  
37 submit a copy of the permit before allowing the unit owner (or his contractor) to begin the work.

38 Each county and municipality develops a set of charges for the activities described in the building  
39 code. New municipalities are required to base their fees on those charged by surrounding govern-  
40 ment entities. We recommend that the manager contact the government with jurisdiction for the  
41 Florida Building Code for his association. He should obtain a copy of the ordinance (law) imple-  
42 menting the Florida Building Code, along with any local amendments that the State has approved,  
43 and a copy of the fee structure.

## 1 ***Land Use Planning & Zoning***

### 2 **What is Land Use Planning?**

3 In the State of Florida, until 2010, every local government and county was required to have a  
4 "Comprehensive Development Master Plan" (CDMP). The State of Florida required that these  
5 plans be consistent with related regional plans and the State Comprehensive Plan. The theory is  
6 that, by planning for future development and use, local governments and the state can better en-  
7 sure that necessary infrastructure is in place prior to the actual development. Additionally, the  
8 CDMP theoretically protects certain areas from over development, thus preserving Florida's delicate  
9 ecosystem.

10 The State Legislature created Florida Statute, Chapter 163 to help guide local comprehensive plan-  
11 ning efforts and to provide for State review and approval of local plans. Chapter 163, F.S. mandat-  
12 ed that specific levels of service be included with these plans and that no development orders will  
13 be issued if the adopted levels of service cannot be met. Local governments may charge impact  
14 fees for new developments to minimize their impact on currently funded levels of service. Chapter  
15 9J-5 of the Florida Administrative Code established the Minimum Criteria for Review of Local Gov-  
16 ernment Comprehensive Plans and Determination of Compliance.

17 While now repealed, the CDMP requirements continue express the local government's general ob-  
18 jectives and policies addressing where and how it intends development or conservation of land and  
19 natural resources will occur during the next ten to twenty years, and the delivery of government ser-  
20 vices to accomplish the Plan's objectives. It provides for "sustainable development" allowing for  
21 land capacity to meet projected needs, preservation of wetlands and agricultural areas and protec-  
22 tion of (drinkable) water well fields.

23 The CDMP established the broad parameters for government to do detailed land use planning and  
24 zoning activities, functional planning and programming of infrastructure and services. As such, it is  
25 a framework for use by other programs to be developed to support its long-range planning goals.  
26 For each of the master plan elements, there were goals, objectives and policies, measures to be  
27 monitored and maps of planned future facilities. The land use plan broadly defines land use catego-  
28 ries. The Land Use portion of the plan usually included a Map for projecting land use and changes  
29 for a ten to fifteen year period, and visually shows recommended land uses by major categories,  
30 each of which is interpreted locally through zoning designations (which are not part of the map).

31 The Plan established a growth policy that encourages development:

- 32 • At a rate commensurate with projected population and economic growth
- 33 • In a contiguous pattern centered around a network of high-intensity urban centers well con-  
34 nected by multi-modal intra-urban transportation facilities.
- 35 • In locations which optimize efficiency in public service delivery and conservation of valuable  
36 natural resources.

37 All development orders and regulations previously needed to be consistent with the adopted local  
38 CDMP. Once the local government drafted the CDMP, it held public hearings, through which resi-  
39 dents of the area may comment on proposed uses.

40 Local CDMPs generally addressed ten different elements:

- Land Use
- Water, Sewer and Solid Waste
- Coastal Management
- Housing
- Recreation and Open Space
- Intergovernmental Coordination

- Capital Improvements
- Educational
- Transportation Element (Traffic Circulation, Mass Transit, Aviation, Ports)
- Conservation, Aquifer Recharge and Drainage Element

1 In summary, CDMPs generally described the purpose for which the land would be used, defined the  
2 infrastructure necessary to meet those purposes, and identified how natural resources and existing  
3 structures would be protected. A CDMP showed areas of redevelopment, development, and  
4 preservation. The local government identified parks, government buildings, schools, and other facili-  
5 ties in its CDMP, as well as existing and planned development. It provided for adequate transporta-  
6 tion, water & sewer, and schools for future developments. Local governments coordinated with local  
7 school boards to assure that planned future development provides for schools.

### 8 **What is Zoning?**

9 Where the CDMP provides the framework for development, zoning rules and regulations provide  
10 the details. Zoning entails the regulation of land uses and buildings in three ways:

- 11 • Controlling what a given parcel of land or district may be used for
- 12 • Regulating the form a building can take: how high it can be, how big, how close to the prop-  
13 erty line, etc.
- 14 • What type of supporting infrastructure and amenities must be provided: how many parking  
15 spaces, driveways or sidewalks; the amount and type of landscaping; the provision of ade-  
16 quate and efficient water and sewer lines; etc.

17 For instance, the CDMP provides that area X will be used to provide mid-density housing. The local  
18 government will pass zoning for area X that provides that it will consist of townhouse and low rise  
19 residential buildings. Further, the Land Development (Zoning) regulations will detail the front and  
20 back setbacks, maximum height of buildings, number of parking spaces required, floor area ratios,  
21 and so on.

22 Example: The CDMP for Sunshine City designates a vacant five acre site for commercial develop-  
23 ment. This means that Sunshine City anticipates a small shopping center on this site. The City  
24 zoning for the site allows for a maximum development of 50,000 square feet, and requires that any  
25 out parcels have a footprint of 500 square feet. The zoning also requires that each store have the  
26 equivalent of 5 parking spaces each, and that the entire center, including out parcels, have a set-  
27 back of at least 25 feet from the main street, 30 feet from side streets, and 50 feet from the devel-  
28 opment behind it. Additionally, Sunshine City zoning permits a maximum building height of 25 feet,  
29 or two stories. The zoning code for commercial areas allows only monument signs, with a height  
30 not to exceed 25 feet, and each establishment is permitted one building sign equal to one square  
31 foot for every 4 feet of building frontage.

### 32 **Zoning Variances**

33 Once the local government has established zoning for an area, the land is ready for development  
34 within the limits of the zoning. The owner needs only to file the necessary permits to build as long  
35 as he adheres to the zoning requirements. However, if he wants less of a setback, a taller building,  
36 or less parking, he must apply for a *zoning variance*. To do so, the owner submits an application,  
37 which typically includes:

- 38 • Letter of Intent: The letter of intent explains why the request is being made and why it should  
39 be approved. The letter must be signed by the applicant and must clearly explain the exact  
40 nature of the proposed use or operation applied for. It must also include any pertinent tech-  
41 nical data including a complete description of the subject property (legal description, proper-

1 ty size, use intended, structures on the property), and the type of hearing requested to clari-  
2 fy the intended use of the property.

- 3 • Site Plan: The site plan must show all property dimensions, streets, and north reference  
4 point. If structures exist on the property or are proposed, all structure dimensions and set-  
5 backs, off-street parking spaces, etc. (existing or requested) must be shown. The site plan  
6 must contain a title block & a detailed legend of site use data. The site plan should also be  
7 accompanied by a survey of the property.
- 8 • Floor Plan: The floor plan must show all existing conditions and/or all proposed changes or  
9 additions to the interior of the structure. Each room must be dimensioned and the use of  
10 each room should be indicated.
- 11 • Elevation Plan: The elevation drawing must show the dimensions of the structure and must  
12 give the overall height of the building. If wall or roof signs are involved in the request, the ex-  
13 isting or proposed signs must be added to the drawing.
- 14 • Profiles and Topographical Plan: Profiles and Topographical Plans will be required if the  
15 hearing request involves excavations. The plans should show all dimensions of the pro-  
16 posed excavation including all perimeter and slope data and must be sealed by a registered  
17 Florida engineer or surveyor.

18 Most local governments encourage the owner or applicant to contact the local environment agency  
19 and public works department, as well as planning and zoning. Additionally, local governments as-  
20 sess a fee for review and processing of the application.

21 Planning or zoning staff will review the application package and send copies to other departments  
22 for review. Depending on the nature of the application, this could include transit and public works,  
23 environmental agencies, and water & sewer. After staff has completed the review, they will prepare  
24 a recommendation for the local governing body and place it on the agenda for a hearing. All zoning  
25 hearings are advertised, and the local government sends notices directly to individuals residing  
26 within the immediate vicinity of the proposed zoning change.

27 Note that an owner can only apply for a zoning variance consistent with the land use for the area.  
28 For instance, if the land use designation is for low rise residential, the owner cannot ask for a zon-  
29 ing variance to construct a high-rise office building. He must first request a *land use change* to  
30 permit office buildings. Zoning variances generally request lower setbacks, less landscaping or  
31 parking, or smaller floor area ratios. However, a reduction in setback could impact significantly on a  
32 neighboring development. For instance, suppose you manage a high-rise in an area zoned for  
33 high-density residential. Your building and its neighbors adhered to the required 50-foot side set-  
34 backs and dense landscaping. This means your building is 100 feet from the actual physical build-  
35 ing and your residents look out on beautiful landscaped areas. The owner of the vacant land next  
36 to your association wants a 5-foot setback, with a garage structure in the remaining 40 feet. In-  
37 stead of landscaping, your residents will look out on a concrete lot. Your residents may want to op-  
38 pose the zoning variance.

39 Typically, residents of an area receive a notice for a zoning variance, at which point they realize that  
40 some structure will be constructed nearby. This is usually when residents protest the construction  
41 of the building. Because the zoning variance affects only conditions of construction and site im-  
42 provements, not the structure itself, residents become frustrated that they are unable to stop con-  
43 struction of another high-rise, or shopping center, or auto park, and so on. If residents want to con-  
44 trol the development within their neighborhoods, they should be involved in the CDMP process –  
45 both when changes are requested and during the mandated five year review by local governments.

## 1 Appeals to Zoning Decisions

2 In some cases, planning & zoning staff make decisions regarding zoning changes, typically small  
3 modifications or changes. If staff denies a variance application, most local governments permit the  
4 owner to apply to the governing body. If the governing body denies any application, the owner must  
5 appeal through the courts. Residents may also appeal zoning approvals through the courts. Note  
6 that the time frames for filing appeals are usually very strict such as thirty days or less.

### 7 *Why associations to be cognizant of local CDMP & zoning issues*

8 As we have discussed, CDMP amendments and zoning changes can and do affect the existing  
9 community. Land use changes can affect, among other things:

- 10 • Traffic patterns & congestion
- 11 • Quality of education and school overcrowding
- 12 • Availability of water
- 13 • Government infrastructure requirements (sewer, garbage, etc.)
- 14 • Green space

15 Families with children do not want to send their children to overcrowded schools. None of us want  
16 to increase driving time to work. Increased demands on water, sewer and other utilities increase  
17 the cost of living for an area. These factors all affect the desirability of a community and, the quality  
18 of life ultimately, impacting on the property values of the association.

19 While zoning changes may not impact directly on traffic or school overcrowding, they can impact  
20 property values. A unit with a view of the Intracoastal or ocean may decrease in value if another  
21 building is constructed that blocks its view. Likewise, if a variance is granted to permit a gas station  
22 on a site zoned for commercial shops, the units on adjacent streets may become less desirable.

23 Associations that are aware of proposed changes have the opportunity to meet with government of-  
24 ficials, and discuss ways of mitigating the impact of planned developments, or, perhaps, stopping  
25 them altogether. We will discuss this more in Section VII.

## 26 Other local laws & requirements

27 Most counties and some cities have local laws that mirror state and federal laws on treatment of  
28 minorities and disabled, provision of housing, disaster preparedness and so on. Managers should  
29 check with the association attorney to determine the local laws and requirements with which he  
30 should be familiar.

### 31 **Association Requirements: Unit Owner Activities**

32 On a day-to-day basis, most unit owners have little interaction with government. However, when a  
33 unit owner wants to tile his unit, or needs to replace a water heater or air conditioning system, or  
34 proposes to enclose his balcony, he must obtain the approval of the association. He may also need  
35 to obtain a permit from the local governing body. Additionally, most local governments require that  
36 licensed and insured contractors perform work; the owner is usually required to specify the contrac-  
37 tor(s) who will complete the project.

38 In this case, the association has a responsibility to ensure that the unit owner pulls the necessary  
39 permit and has the required inspections. Building Code inspectors can, and do, hold the associa-  
40 tion responsible for modifications and repairs made by unit owners. Additionally, if the owner im-  
41 properly modifies his unit, it could affect the structural integrity of the building. When an owner tiles  
42 without soundproofing, he creates a noise problem for those residents in the unit below.

1 We recommend that managers develop an architectural form that clearly delineates all require-  
2 ments a unit owner should meet, and incorporates the local government building code require-  
3 ments. The association should condition any approvals on submitting copies of the permit as well  
4 as copies of current contractor licenses and proof of current insurance.

#### 5 ***Association Requirements: Vendor Activities***

6 Most boards use contractors to perform some of maintenance and repairs on association property.  
7 Unfortunately, some associations use unlicensed and uninsured vendors to “save money.” While  
8 the association may pay less in the short run, they ultimately will pay more. Unlicensed and unin-  
9 sured vendors generally do not guarantee their work. Moreover, local governments require almost  
10 every vendor to have an occupational license. The county in which a business is located charges a  
11 fee based upon the type work the vendor performs. For instance, a plumber may pay a fee of \$350,  
12 while a management company may pay \$200, plus a fee for each manager working for it.

13 As we discussed earlier in this chapter, the Florida Building Code requires that the association  
14 submit a set of plans and obtain a permit for certain repairs, rehabilitation, modifications, etc. This  
15 may include major changes to landscaping, removal of trees and restriping of parking lots.

16 If the association hires an unlicensed vendor, the local government may fine the association. Fur-  
17 ther, if the association authorizes a vendor to perform work requiring a permit without pulling the  
18 permit, the local governing body may fine both the contractor and the association, and may require  
19 the association to partially or completely redo the work. Thus, the association could pay much  
20 more for a project it started illegally than had it adhered to all legal requirements. Likewise, boards  
21 should ensure that vendors are insured. If someone is injured during the project, or the contractor  
22 damages the property due to his actions or inactions, the association should hold the vendor re-  
23 sponsible. If he has no insurance, unfortunately, the association will be left holding the bag.

24 The manager is responsible for advising the board on legally operating and maintaining the asso-  
25 ciation. If he were to recommend use of unlicensed personnel, or suggest that the association not  
26 pull a permit, the manager is at minimum failing to exercise due diligence and professional care. If  
27 he does not warn a board that wants to use unlicensed vendors, or does not want to pull permits,  
28 he may also be failing, at a minimum, to exercise due diligence and care. F.A.C. 61-20-010 pro-  
29 vides a fine of \$500 for failure to exercise due diligence and professional care. Were the CAMs  
30 Council to consider the violation serious enough, or see that the manager has a pattern of not ad-  
31 hering to government laws and regulations, the manager could lose his license.

32 We strongly recommend that managers adhere to legal requirements, and, as necessary, consult  
33 with the association attorney for guidance when they are unclear about a law or rule.

#### 34 ***Political actions***

##### 35 ***How political action can affect local land use & zoning policies***

36 Unit owners can make a difference in the outcome of land use amendments and zoning changes.  
37 The manager or board should assure that the association routinely receives notices of local gov-  
38 ernment meetings, so that they can determine if any pending items will affect them. Further, a rep-  
39 resentative of the association may want to attend meetings of the local governing body. Members  
40 of county and municipal governing bodies are elected officials. The board may want to work with  
41 candidates who will share their vision of the community. At the least, board members and the man-  
42 ager should get to know the local elected officials, and periodically meet to discuss concerns and  
43 issues. When a local official takes a courageous stand on a controversial issue, the board should  
44 consider sending a note acknowledging the action and telling him that he has its support. The more  
45 community support an official has, the easier it is for him to challenge the status quo.

#### 46 ***Example – Zoning Variance***



1 A developer filed a zoning variance to increase the height of a residential building from 40 stories to  
2 70 stories, while keeping the number of units the same. The neighboring buildings were all 30 – 40  
3 stories, and the community was opposed to a building of that height and size. The association  
4 presidents prepared a petition opposing the variance and began collecting signatures. They also  
5 sent phone scripts to residents, so that they could call their local elected officials. Before the local  
6 governing body could hear it, the developer withdrew the request for variance. Today, a 40-story  
7 building sits on that site.

8 Associations should be sure that they receive notices for both CDMP amendments and proposed  
9 zoning variances in their communities. There are community groups that help organize and advo-  
10 cate for associations and community residents, and associations should consider joining them. The  
11 fee for membership is usually nominal \$100 to \$250 a year. As a manager, you can help by en-  
12 couraging your board members to get involved in these master organizations and by your getting to  
13 know the managers at neighboring buildings. We also encourage the manager or members of the  
14 board to attend local governing body meetings, and to get to know local officials. These relation-  
15 ships are helpful not just for land use amendments and zoning issues, but also in learning about  
16 preferred vendors and keeping up on (and advocating for or against) proposed legislation affecting  
17 associations.

### 18 **Interactions with local officials & building code requirements**

19 As we discussed earlier, the Florida Building Code is a state law, overseen by a seven member  
20 Building Code Commission. Members of this Commission reside in communities such as yours.  
21 Association boards and managers should ascertain if any members of the Commission live in their  
22 area. If the board has issues or concerns over current building code requirements, it may want to  
23 meet with the members to seek support from Commission members to explore ways to improve the  
24 Code, so that it better serves the association and community.

25 We recommend that the board and manager get to know their local building officials. While building  
26 inspectors and code enforcement officers cannot change or waive code requirements, they can  
27 help associations understand certain provisions; they can extend timeframes for compliance, and  
28 they can assist associations in evaluating whether contractor bids meet code requirements. More-  
29 over, if the building officials work with the board and manager on a regular basis, they will better  
30 understand the needs and demands of the association, and, within the limits of their authority, may  
31 be able to extend deadlines, or suggest alternatives for complying with regulations.

### 32 **How do these programs come about?**

33 Generally, federal and state laws are proposed because some entity or person has identified a  
34 problem, and proposes a solution that benefits them. In some cases, the entity that identified the  
35 problem has a lobbyist, who meets with important legislators, reviewing the issues, proposing solu-  
36 tions and even drafting a bill to “correct” the problem. Additionally, many of these lobbyists raise  
37 money to help keep their favorite legislators in office or to defeat the legislators who do not support  
38 their issues. We are all familiar with the AARP, which has successfully lobbied to keep social secu-  
39 rity and Medicare benefits intact.

40 Examples:

41 In the last twenty or thirty years, social service agencies and providers have removed their disabled  
42 clients from institutions, based upon the belief that “normalization” and integration into society as a  
43 whole is healthier for them. And many local communities agree in principle that a “home” setting is  
44 healthier, but they object to creating facilities for them in their neighborhood the NIMBY syndrome  
45 (Not In My Back Yard). The problem reached the level where Congress, heavily lobbied by social  
46 service groups, passed legislation making it difficult for a neighborhood to prohibit group homes  
47 within residential neighborhoods.

1 Similarly, religious groups lobbied Congress, stating that the right to assemble for worship is at the  
2 very of the First Amendment. They successfully argued zoning codes and landmarking laws illegal-  
3 ly exclude religious assemblies in places where large groups of people assemble for secular pur-  
4 poses. Thus, Congress passed the Religious Land Use and Institutionalized Persons Act. Most lo-  
5 cal governments and communities were caught unaware. An association that allows groups of unit  
6 owners to assemble in the recreation hall for parties and bingo night could find themselves chal-  
7 lenged to allow Friday night and Sunday morning services.

8 In the Florida Legislature, during the 2005 session, legislators submitted bills to license community  
9 association management companies, require board members to be elected to the board on an an-  
10 nual basis, mandate reserves, and prohibit foreclosures for assessment due until an owner owes at  
11 least \$2,500. Legislators heard testimony from a vocal minority of residents throughout the state  
12 complaining about abuses of the board. Legislators introduced few reforms protecting board mem-  
13 bers, or limiting unit owner actions – because board members are not as well organized or as vocal  
14 as some of the unit owner groups.

15 Clearly, if a group has a concern, if it can find other organizations with the same or similar con-  
16 cerns, if it has the contacts and wherewithal to influence Congress or the State Legislature, it may  
17 be able to pass legislation protecting their interests. When boards come together, and managers  
18 come together, they too can influence legislation at the State and national level.

#### 19 **Why don't we, at the local level, hear about these proposals before they become law?**

20 In 2005, legislators filed more than 2,000 bills for consideration during the 60-day legislative ses-  
21 sion. Clearly, it is unlikely that a manager, board, or unit owner could find and review every bill that  
22 has a potential impact on associations. Instead, most boards and managers rely upon industry  
23 groups, professional affiliations, and community organizations to inform them of potential negative  
24 as well as positive legislation. Boards, unit owners, and managers who are not members of these  
25 groups are unlikely to hear of proposed legislation unless the news media becomes interested in a  
26 specific issue.

#### 27 **What can we do to influence our elected officials?**

28 With its many small cities and the move to create even more municipalities, it is likely that the board  
29 or manager will know at least one of his local elected officials. The better we know our elected offi-  
30 cials and their staff members, the more readily we can request their assistance when we need it.  
31 Associations, board members, and managers should consider joining local civic and professional  
32 organizations. As a member of a group that routinely lobbies legislators, board members and man-  
33 agers have “instant credibility” especially if the president or chair of the organization calls in ad-  
34 vance and requests the appointment. Sometimes, the president or chair will even attend the meet-  
35 ing with the manager or board, so that he knows what issues are important to his members and can  
36 let the elected official know that your concerns are of major importance to him.

37 Board members and managers should attend meetings of the county or city commission or council.  
38 By attending meetings, they can learn the issues that their local government is currently consider-  
39 ing. Board members and managers may want to meet with local elected officials periodically, both  
40 to develop a relationship with them and discover what their elected officials consider the most im-  
41 portant issue. Boards may want to establish a quarterly open meeting with elected officials, and in-  
42 vited local officials, state representatives and Congressional representatives to attend and discuss  
43 upcoming legislation. This also gives residents an opportunity to share their concerns both with the  
44 board and their elected representatives. Additionally, the manager should send a copy of the asso-  
45 ciation newsletter to the elected officials representing his association, as well as county and city  
46 managers and key government staff. The more informed they are, the more recognizable your as-  
47 sociation's name, the easier it will be to get help when you need it.

1 Board members and the manager may want to volunteer their time for their official's pet charity, or  
2 participate in charity runs that their official advocates. Boards and managers can also work for their  
3 preferred candidate during elections. And do not forget that staff members have the ear of the  
4 elected official more often than anyone else. Sometimes staff intercession is sufficient to resolve  
5 your problem or issue.

6 Depending upon the nature of an issue or problem, the board may want to hire a lawyer or public  
7 relations firm that routinely works with elected officials, that is, a "lobbyist." Lobbyists specialize,  
8 some working with local governments, some with state and some with federal governments. These  
9 individuals generally have excellent relationships with elected, and often, high ranking appointed,  
10 officials. Especially with term limits for the State legislature and for many local governments, lobby-  
11 ists often know the system better than the legislators and can often get things done more quickly  
12 than the elected official.

13 Of course, local elected officials can help with state and federal legislators. If you have a problem  
14 at that level, sometimes a local official can quickly resolve the issue with a call to a Congressman's  
15 chief of staff, or a state legislator's key aid, or the Chief of a state agency. Local officials have state  
16 and national organizations that are very effective lobbying groups for municipal and county con-  
17 cerns.

18 Most importantly, boards and managers should ensure that elected officials are aware of and un-  
19 derstand their concerns and problems regardless of the method: newsletter, meetings, campaigns,  
20 etc. Sometimes, just a quick conversation in the grocery with your local commissioner can lead to  
21 resolving your association's problem.

### 22 **Use of Licensed Professionals**

23 We have discussed at length the differing laws, rules and ordinances that apply to building Codes  
24 and to our communities. To assure that our associations properly obtain services for our communi-  
25 ty, we should seek and use appropriately licensed design and construction professionals. These  
26 individuals should hold the appropriate Florida license for the activity they will carry out, and should  
27 have insurance, to protect against any errors which may occur. Keep in mind that professionals  
28 make errors on occasion, as do we all. An association should assure that it protects itself in case of  
29 problems with a project. We have included a list of specialties required to be licensed or certified in  
30 order to perform work for an association or individual.

### 31 **Project Management**

32 All associations enter into contracts, using funds collected from owners. The board has a fiduciary  
33 responsibility to assure that the services are performed in accordance with the contract, at the  
34 agreed upon level and at a reasonable cost. The board usually delegates to the manager the re-  
35 sponsibility for overseeing these contracts. He may delegate some contract monitoring to the  
36 maintenance supervisor, or, for administrative equipment, his administrative assistant.<sup>7</sup> In some  
37 cases, board members oversee certain contracts. This is common in self-managed associations.  
38 In either case, the association has assigned a "project manager," who is responsible for that con-  
39 tract.

40 Management of major projects is not a routine responsibility of a community association manager.  
41 The manager is charged with operating and overseeing the day-to-day responsibilities of the asso-  
42 ciation. These duties alone typically consume 40 – 60 days a week.

43 A project manager for a major contract should have certain qualifications:

- 44 • Knowledgeable and recognized professional

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<sup>7</sup> Assuming that the association has such staff.

- 1 • Thoroughly understands the scope of services
- 2 • Monitors each phase of every project
- 3 • Understand relationship among concurrent projects and can coordinate them to most effec-
- 4 tively complete each project
- 5 • Identifies any product or workmanship that varies from the scope of work
- 6 • Is authorized to evaluate any unanticipated issues while work is in progress and recommend
- 7 corrective action
- 8 • Performs inspections, evaluates completed work and pre-approves contractual progress
- 9 payments
- 10 • Serves as a resource for the board on project issues

11 Product manufacturer will usually have regional field staff available to oversee certain portions of a  
12 project. For instance, the roofing manufacturer will want to oversee certain portions of the roof in-  
13 stallation, to assure that the roof is applied in accordance with manufacturer specifications. This will  
14 assure that the warranty is maintained. However, in most cases, these representatives do not pro-  
15 vide day-to-day services.

16 The association may also want to consider hiring a general contractor for all facets of the work. The  
17 GC is then responsible for project management activities. It is likely that the GC will hire someone  
18 specifically trained in project coordination and management. The association can expect an addi-  
19 tional charge for this service. While there are certain advantages of using a single GC who selects  
20 all other contractors, it provides the association with fewer alternatives when a problem occurs with  
21 one of the projects. Often, when a problem arises, the association must terminate the GC – and  
22 renegotiate with subcontractors – thus delaying project completion and increasing costs.

### 23 **Government Staff: Experts available to answer questions**

24 Government staff is a great resource for managers and boards. They can guide managers through  
25 building inspections, explain how to apply for grants, and facilitate use of government services and  
26 agencies. We recommend that managers obtain a list of key local government staff, and meet with  
27 them as necessary.

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Roofing Application Standard (RAS) No. 119 Installation of Mechanically Fastened Roof Tile Systems Direct Deck & Horizontal Battens Only (Preformed Metals with Edge Returns)

Roofing Application Standard (RAS) No. 120 Mortar and Adhesive Set Tile Application

Roofing Application Standard (RAS) No. 127 Procedure for Determining the Moment of Resistance and Minimum Characteristic Resistance Load to Install a Tile System on a Building of a Specified Roof Slope and Height

Roofing Application Standard (RAS) No. 128 Standard Procedure for Determining Applicable Wind Design Pressures for Low Slope Roof

Roofing Application Standard (RAS) No. 130 Installation Criteria for Roof Shingles and Shakes Application

Roofing Application Standard (RAS) No. 133 Standard Procedure for Installation of Metal Roof Systems

Roofing Application Standard (RAS) No. 137 Standard Requirements for Mechanical Attachment of Single-Ply Roof Coverings to Various Substrates

Roofing Application Standard (RAS) No. 150 Prescriptive Bur Requirements

Testing Application Standard (TAS) No. 100-95 Test Procedure for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems

Testing Application Standard (TAS) No. 100(A)-95 Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area

- Testing Application Standard (TAS) No. 101-95 Test Procedure for Static Uplift Resistance of Mortar or Adhesive Set Tile Systems
- Testing Application Standard (TAS) No. 102-95 Test Procedure for Static Uplift Resistance of Mechanically Attached, Rigid Roof Systems [For Mechanically Attached, Rigid Roof Systems Accompanied by a Clip, Refer To TAS 102(A)]
- Testing Application Standard (TAS) No. 102(A)-95 Test Procedure for Static Uplift Resistance of Mechanically Attached, Clipped, Rigid, Roof Systems (For Methods of Mechanical Attachment Excluding Clips, Refer to TAS 102)
- Testing Application Standard (TAS) No. 103-95 Test Procedure for Self-Adhered Underlayments for Use in Discontinuous Roof Systems
- Testing Application Standard (TAS) No. 104-95 Test Procedure for Nail-On Underlayment for Use in Discontinuous Roof Systems
- Testing Application Standard (TAS) No. 105-11 Test Procedure for Field Withdrawal Resistance Testing
- Testing Application Standard (TAS) No. 106 Standard Procedure for Field Verification of the Bonding of Mortar or Adhesive Set Tile Systems and Mechanically Attached, Rigid, Discontinuous Roof Systems
- Testing Application Standard (TAS) No. 107-95 Test Procedure for Wind Resistance Testing of Non-Rigid, Discontinuous Roof System Assemblies (Modified From ASTM D 3161)
- Testing Application Standard (TAS) No. 108-95 Test Procedure for Wind Tunnel Testing of Air Permeable, Rigid, Discontinuous Roof Systems
- Testing Application Standard (TAS) No. 110-2000 Testing Requirements for Physical Properties of Roof Membranes, Insulation, Coatings and Other Roofing Components
- Testing Application Standard (TAS) No. 111(A)-95 Test Procedure for Roof Edge Termination Performance
- Testing Application Standard (TAS) No. 111(B)-95 Test Procedure for Edge Metal Pull-Off Performance
- Testing Application Standard (TAS) No. 111(C)-95 Test Procedure for Coping Cap Pull-Off Performance
- Testing Application Standard (TAS) No. 112-95 Standard Requirements for Concrete Roof Tiles
- Testing Application Standard (TAS) No. 114-11 Test Procedures for Roof System Assemblies in the High-Velocity Hurricane Zone Jurisdiction
- Testing Application Standard (TAS) No. 116-95 Test Procedure for Air Permeability Testing of Rigid, Discontinuous Roof Systems
- Testing Application Standard (TAS) No. 117(A)-95 Test Procedures for Withdrawal Resistance Testing of Mechanical Fasteners Used in Roof System Assemblies
- Testing Application Standard (TAS) No. 117(B)-95 Test Procedure for Dynamic Pull-Through Performance of Roofing Membranes over Fastener Heads or Fasteners with Metal Bearing Plates
- Testing Application Standard (TAS) No. 117(C)-95 Test Procedure for Dynamic Pull-Off Performance of Roofing Fastener Heads or Fasteners with Bearing Plates
- Testing Application Standard (TAS) No. 121-95 Standard Requirements for Testing and Approval of Roofing Adhesives, Mastics and Coatings

- Testing Application Standard (TAS) No. 123-95 Standard Requirements for Mortar Used in Mortar Set Tile Systems
- Testing Application Standard (TAS) No. 124-11 Test Procedure for Field Uplift Resistance of Existing Membrane Roof Systems and in Situ Testing for Reroof and New Construction Applications
- Testing Application Standard (TAS) No. 125-03 Standard Requirements for Metal Roofing Systems
- Testing Application Standard (TAS) No. 126-95 Standard Procedures for Roof Moisture Surveys
- Testing Application Standard (TAS) No. 131-95 Standard Requirements for Thermoplastic Olefin Elastomer Based Sheet Used in Single-Ply Roof Membrane
- Testing Application Standard (TAS) No. 132-95 Standard Requirements for Testing and Approval of Sealants Used in Roofing
- Testing Application Standard (TAS) No. 135-95 Standard Requirements for Fiberglass Reinforced Tile, Shingles or Panels and Fiber Cement Shingles, Shakes or Panels
- Testing Application Standard (TAS) No. 138-95 Standard Requirements for Aluminum Pigmented Emulsified Asphalt Used as a Protective Coating for Roofing
- Testing Application Standard (TAS) No. 139-95 Standard Requirements for White Roof Patch Specification
- Testing Application Standard (TAS) No. 140-95 Standard Requirements for Nonfibered Roof and Foundation Coatings
- Testing Application Standard (TAS) No. 141-95 Standard Requirements for Coal Tar (Cutback) Roof Coating, Brushing Consistency
- Testing Application Standard (TAS) No. 142-95 Standard Requirements for Coal Tar Roof Cement, Asbestos Free
- Testing Application Standard (TAS) No. 143-95 Standard Requirements for White Elastomeric Roof Coatings Used For Coating Built Up Roofs and Metal Roofing Systems
- Testing Application Standard (TAS) No. 201-94 Impact Test Procedures
- Testing Application Standard (TAS) No. 202-94 Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure
- Testing Application Standard (TAS) No. 203-94 Criteria for Testing Products Subject to Cyclic Wind Pressure Loading
- Testing Application Standard (TAS) No. 301-94 Testing Laboratory



**Appendix I - Building Code Administrators & Inspectors**

Composition Number of Members: 9

- One member who is an architect licensed pursuant to Chapter 481, Florida Statutes (F.S.), an engineer licensed pursuant to Chapter 471, F.S., or a contractor licensed pursuant to Chapter 489, F.S.
- Two members serving as building code administrators
- Two members serving as building code inspectors
- One member serving as a plans examiner
- One member who is a representative of a city or a charter county
- Two consumer members, one of whom must be a person with a disability or a representative of an organization which represents persons with disabilities

**Licensed Architect**

Orlando Lamas  
Miami Springs, FL  
Term: 6/25/09 – 10/31/13

**Consumer Members**

Fred R. Dudley  
Havana, FL  
Term: 3/20/06 – 10/31/12

**Building Code Administrators**

Bob McCormick, Chair  
Orlando, FL  
Term: 8/7/07 – 10/31/13

Dennis Carpenter  
Tallahassee, FL  
Term: 11/1/09 – 10/31/13

Wayne Francis  
Brandon, FL  
Term: 8/15/11 – 10/31/12

**Inspectors**

Gerry A. Demers  
Crestview, FL  
Term: 6/25/09 – 10/31/11

Vacant

**Plans Examiner**

Art Barthlow  
Middleburg, FL  
Term: 10/19/09 – 10/31/12

**City or Charter County Rep**

Richard Gathright, Vice-Chair  
Lake Worth, FL  
Term: 8/7/07 – 10/31/14

## Appendix J - Specialty Maintenance

- Certain types of maintenance and construction require special licensure or certification.
- State of Florida requires all licensed construction professionals to complete a four hour core course on Florida Building Code.
- Any personnel performing maintenance or repairs, which require licensure & insurance, must provide proof to association.
- Association is responsible for unlicensed/uninsured work , including within units
- Regulated classes include:
  - Building Officials/Building Code Administrators – responsible for plan review, inspection and enforcement of Florida Building Code and applicable federal, state and local construction requirements in:
    - ♦ Structural
    - ♦ Plumbing
    - ♦ Fire Prevention
    - ♦ Electrical
    - ♦ Mechanical
    - ♦ Energy
    - ♦ Accessibility
    - ♦ Gas
    - ♦ Wind load
  - Architects – design building and use of space within building:
    - ♦ provide planning, preliminary designs, and drawings and specifications
    - ♦ may inspect and/or administer projects
    - ♦ licensed through Board of Architecture & Interior Design
  - Engineers – provide mathematical, physical, and engineering science services related to design of buildings and their systems:
    - ♦ Specialties include electrical, structural, and ventilation systems
    - ♦ Licensed through Board of Professional Engineers
  - Home Inspectors – inspect residential property and report conditions of home’s major components, systems, and structure; American Society of Home Inspectors provides minimum standards; Licensed through DBPR
  - Mold Assessment Inspectors – inspect facilities for mold and mildew and recommend remediation to correct problem(s). Licensed through DBPR
  - Interior Designers – design non-structural elements of buildings, such as lighting, space planning, and furnishings; licensed through Board of Architecture & Interior Design.
  - Landscape Architects - provide site, landscape designs, environmental impact statement services; licensed through the Board of Landscape Architecture.
  - Construction Contractors – provide construction, remodeling, alteration, repair, rehabilitation, and demolition of buildings; regulated under F.S. 489, Part I:
    - ♦ Construction Licensing Board tests and licenses certified construction contractors.

- ♦ Local jurisdictions issue competency cards<sup>8</sup> to registered construction contractors.
- ♦ They may only work within those jurisdictions that have granted competency cards.
- ♦ Specific constructions trades contractors include:
  - *General contractor.* Services are unlimited as to type of work which he or she may do, who may contract for any activity requiring licensure under this part, and who may perform any work requiring licensure under this part, except as otherwise expressly provided in s. [489.113](#).
  - *Building Contractor.* Limited to construction of commercial buildings, single family dwellings, or multiple dwelling residential buildings 3 stories or less and remodeling, repair, or improvement of any size building if the services do not affect building structure.
  - *Residential Contractor.* Limited to construction, remodeling, repair, or improvement of single family, duplex and triplex residences that do not exceed two habitable stories above no more than one uninhabitable story.
  - *Glass & Glazing contractor.* Services unlimited in execution of contracts requiring experience, knowledge and skill to install, attach, maintain, repair, fabricate, alter, extend, or design, in residential and commercial applications, without any height restrictions, all types of windows, glass, mirrors, whether fixed or movable, swinging or sliding glass doors attached to existing walls, floors, columns, or other structural members of the building; glass holding or supporting mullions or horizontal bars; structurally anchored impact-resistant opening protection attached to existing building walls, floors, columns or other structural members of the building; prefabricated glass, metal, or plastic curtain walls; storefront frames or panels; shower and glass tub enclosures; metal fascias; and caulking incidental to such work and assembly.
  - *Sheet Metal Contractor.* Works in ferrous or nonferrous sheet metal work (using U.S. No. 10 gauge or its equivalent or lighter gauge and of other materials, such as fiberglass), used in replacement of air-handling systems, including setting of air-handling equipment and reinforcement of such equipment.
  - *Roofing Contractor.* Unlimited in roofing trade, with experience, knowledge, and skill to install, maintain, repair, alter, extend, or design, and use materials and items used in installation, maintenance, extension, and alteration of all kinds of roofing, waterproofing, and coating, except when such materials are not to protect, repair, waterproof, stop leaks, or extend life of roof.
  - *Class-A Air-Conditioning Contractor.* Unlimited in execution of contracts requiring experience and knowledge to install, maintain, repair, fabricate, alter, or design, central air-conditioning, refrigeration, heating, and ventilating systems, including duct work. May not work on liquefied petroleum lines, natural gas fuel lines, potable water lines, sanitary sewer lines, swimming pool piping, or electrical power wiring.
  - *Class-B Air-Conditioning Contractor.* Limited to 25 tons of cooling and 500,000 BTU's<sup>9</sup> of heating in any one system. May execute contracts, within size restriction,

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<sup>8</sup> Competency card: Granted by a local government to contractors who have met requirements in specific construction trade. Usually required to provide references, proof of insurance, and business license.

<sup>9</sup> The British thermal unit (BTU) is a traditional unit of [energy](#). In [North America](#), the term "BTU" is used to describe the heat value (energy content) of fuels, and also to describe the [power](#) of heating and cooling systems, such as furnaces, stoves, barbecue grills, and air conditioners.

- requiring experience, knowledge, and skill to install, maintain, repair, fabricate, alter, extend, or design, central air-conditioning, refrigeration, heating, and ventilating systems, including duct work.
- *Class-C Air-Conditioning Contractor*: Limited to servicing of air-conditioning, heating, or refrigeration systems, including any duct cleaning and equipment sanitizing which requires at least a partial disassembling of system. Note: Certification or registration valid on October 1, 1988
  - *Mechanical Contractor*: Unlimited in execution of contracts requiring experience, knowledge, and skill to install, maintain, repair, fabricate, alter, extend, or design, (when not prohibited by law), central air-conditioning, refrigeration, heating, and ventilating systems, including duct work in connection with a complete system only to extent that such duct work is performed by contractor as is necessary to make complete an air-distribution system. May also work on boiler and unfired pressure vessel systems, lift station equipment and piping, and all appurtenances, apparatus, or equipment used in connection therewith.
  - *Commercial Pool/Spa Contractor*: Work involves, but is not limited to, construction, repair, and servicing of any swimming pool, hot tub or spa, whether public, private, or otherwise.
    - Authorized to work on installation, repair, and replacement of existing equipment, any cleaning or equipment sanitizing including partial disassembling.
    - May also perform work of a swimming pool/spa service contractor.
    - Not authorized to perform following functions: filter changes, installation of new pool/spa equipment, interior finishes, installation of package pool heaters, installation of all perimeter piping and filter piping, construction of equipment areas or rooms or housing for pool/spa equipment.
    - Not permitted to directly connect their work to a sanitary sewer system or to potable water lines (this work reserved for plumbers).
  - *Residential Pool/Spa Contractor*: Involves, but is not limited to, construction, repair, and servicing of any residential swimming pool, hot tub or spa. Includes:
    - Installation, repair, or replacement of existing equipment plus any cleaning or equipment sanitizing which requires at least a partial disassembly of equipment.
    - Installation of new pool/spa equipment, interior finishes, installation of package pool heaters, installation of all perimeter piping and filter piping.
    - Construction of equipment rooms and housing for pool/spa equipment.
    - Scope of work of a swimming pool/spa servicing contractor.
    - Excludes direct connections to a sanitary sewer system or to potable water lines.
  - *Plumbing Contractor*: Execution of contracts requiring experience, financial means, knowledge, and skill to install, maintain, repair, alter, extend, and design plumbing systems, including:
    - Sanitary drainage or storm drainage facilities
    - Venting systems
    - Public or private water supply systems

- Septic tanks
- Drainage and supply wells
- Swimming pool piping
- Irrigation systems
- Solar heating water systems and all appurtenances, apparatus, or equipment used in connection therewith, including boilers and pressure process piping and including installation of water, natural gas (excluding liquid petroleum gases)
- Storm and sanitary sewer lines
- Water and sewer plants and substations
- *Swimming Pool/Spa Servicing Contractor*: Involves, but is not limited to, repair and servicing of any swimming pool, hot tub, or spa, whether public or private, or otherwise, regardless of use, including repair or replacement of existing equipment and any cleaning or equipment sanitizing which requires at least a partial disassembling.
  - Excluded from filter changes, installation of new pool/spa equipment, interior re-finishing, reinstallation, or addition of pool heaters, repair or replacement of all perimeter piping and filter piping and repair of equipment rooms or housing for pool/spa equipment.
  - Restricted from substantial or complete draining of a swimming pool, or hot tub or spa, for purpose of any repair or renovation.
  - May not make direct connections to a sanitary sewer system or to potable water lines.
- *Solar contractor*: Services consist of installation, alteration, repair, maintenance, re-location, or replacement of solar panels for potable solar water heating systems, swimming pool solar heating systems, and photovoltaic systems and any appurtenances, apparatus, or equipment used in connection therewith, whether public, private, or otherwise, regardless of use.
- *Pollutant storage systems contractor*: Limited to, and who has experience, knowledge, and skill to install, maintain, repair, alter, extend, or design, when not prohibited by law, and use materials and items used in installation, maintenance, extension, and alteration of, pollutant storage tanks.
- *Electrical contractor*: Conducts business in electrical trade field and has experience, knowledge, and skill to install, repair, alter, add to, or design, in compliance with law, electrical wiring, fixtures, appliances, apparatus, raceways, conduit, or any part thereof, which generates, transmits, transforms, or utilizes electrical energy in any form, including electrical installations and systems within plants and substations, all in compliance with applicable plans, specifications, codes, laws, and regulations.
- *Alarm system contractor*: Includes execution of contracts requiring ability, experience, science, knowledge, and skill to lay out, fabricate, install, maintain, alter, repair, monitor, inspect, replace, or service alarm systems for compensation, including, but not limited to, all types of alarm systems for all purposes.
- *Underground utility and excavation contractor*: Limited to construction, installation, and repair, on public or private property, whether accomplished through open excavations or through other means, including, but not limited to, directional drilling, auger boring, jacking and boring, trenchless technologies, wet and dry taps, grouting, and

slip lining, of main sanitary sewer collection systems, main water distribution systems, storm sewer collection systems, and continuation of utility lines from main systems to a point of termination up to and including meter location for individual occupancy, sewer collection systems at property line on residential or single-occupancy commercial properties, or on multi-occupancy properties at manhole or wye lateral extended to an invert elevation as engineered to accommodate future building sewers, water distribution systems, or storm sewer collection systems at storm sewer structures.

- May install empty underground conduits in rights-of-way, easements, platted rights-of-way in new site development, and sleeves for parking lot crossings no smaller than 2 inches in diameter, provided that each conduit system installed is designed by a licensed professional engineer or an authorized employee of a municipality, county, or public utility and that the installation of any such conduit does not include installation of any conductor wiring or connection to an energized electrical system.
  - Shall not install any piping that is an integral part of a fire protection system as defined in s. [633.021](#) beginning at the point where the piping is used exclusively for such system.
  - *Specialty contractor*: Scope of work and responsibility is limited to a particular phase of construction and whose scope is limited to a subset of activities described in the categories established in one of the paragraphs of Building Code.
- Florida Building Code mandates that contractors participate in the statewide/local information systems that list licensed and certified contractors.
  - DBPR provides staff support to licensing boards that develop the requirements, provide testing, and administer disciplinary oversight to the various construction trades.

**Exam Questions**

1. The Florida Building Code applies to all but:
  - a. Construction of new buildings
  - b. Construction and enlargement of existing buildings
  - c. Alteration and replacement of houseboats
  - d. Demolition of commercial buildings
  
2. The Florida Building Code was authorized by the \_\_\_\_ Florida Legislature to be the sole document incorporating all building standards adopted by all enforcement agencies and state agencies that license different types of facilities.
  - a. 1988
  - b. 1998
  - c. 2000
  - d. 2010
  
3. The Florida Building Code is very broad and has \_\_\_\_ primary sections:
  - a. Modular housing, existing housing, and residential housing
  - b. New, commercial and residential
  - c. New, residential and existing
  - d. Existing, gas, and mechanical
  
4. Manufactured homes must be constructed in accordance with regulations of the U.S.H.U.D., entitled:
  - a. Manufactured Housing Construction & Safety Standards
  - b. Modular Housing Construction & Safety Standards
  - c. Fabricated Housing Construction & Safety Standards
  - d. As Built Housing Construction & Safety Standards
  
5. Exceptions to the Florida Building Code include all but the following:
  - a. Federal building
  - b. Railroad facilities
  - c. Chickees
  - d. Existing building undergoing a change of occupancy

6. Local governments may amend the Building Code once every \_\_\_ months
- 12
  - 18
  - 9
  - 6
7. The Florida Building Code exempts the following from permits:
- Portable heating devices
  - Concrete restoration
  - Roof replacement
  - Water heater replacement
8. An Underground Storage Tank is a tank and any underground piping connected to the tank that has at least \_\_\_\_\_ percent of its combine volume underground.
- 20
  - 10
  - 15
  - 25
9. Elevator Safety, while included in the Florida Building Code, is also governed by:
- F.S. 633
  - ASME A 17.1
  - 17.1
  - F.A.C. 69A-60
  - F.A.C. 718
10. Fire Safety, while governed by the Florida Building Code, is also governed by:
- F.A.C. 69A-60
  - ASME A 17.1
  - F.A.C. 61C-5
  - F.S. 61B-20
11. The Florida Fire Safety Code:
- Applies only to commercial buildings.
  - Names the Governor as the State Fire Marshall.
  - Is intended to protect Floridians from fire hazards.
  - None of the above.



12. Swimming Pool requirements, while governed by the Florida Building Code, is also governed by:
- National Henry D. Landon Swimming Pool & Spa Safety Act
  - Federal Freddie Mac Swimming Pool Safety Act
  - National Swimming Pool & Spa Safety Act
  - Federal Virginia Graeme Baker Pool and Spa Safety Act
13. F.S. 403.9323:
- Prohibits trimming or alteration of mangroves anywhere in Florida
  - Allows mangrove trimming at an owner' digression anywhere in Florida
  - Requires trimming of mangroves on multifamily residential sites in an equitable distribution to the shoreline rights of the residents.
  - Requires that mangroves only be trimmed by DER employees
14. Hat racking:
- Is a common method to trim trees, approved by most local governments
  - Refers to illegal trimming of mangrove trees
  - Is a Federal requirement that refers to piping systems for sewers
  - Is an method of improving emergency efficiency in green buildings
15. The common objective of green buildings is to reduce the overall impact of the built structure on human health and the natural environment by:
- Efficiently using sunlight and reducing sewage output
  - Reducing waste, pollution, and environmental degradation
  - Reducing the use of paper products by encouraging use of computers
  - Require use of solar paneling only for heating and cooling
16. The Florida Green Lodging designation is valid for \_\_\_ years from the date of issuance.
- 2
  - 3
  - 4
  - 5
17. Generally, if a Federal law exists on an issue, the state and local regulations:
- Provide more lenient requirements that federal law
  - Require that federal law be strictly adhered to, with no exceptions
  - Provide guidance for circumventing federal law
  - Define how the state or local government will enforce federal law

18. If an association does not submit building plans and pull a permit as required by the Florida Building Code and local government ordinances:
- It may be fined triple the amount of the original building permit fees
  - It may be fined double the amount of the original building permit fees
  - It may be fined no more than \$2,500
  - It may be fined a minimum of \$10,000
19. Zoning entails the regulation of land uses and buildings in several ways, excluding:
- Controlling what a given parcel of land or district may be used for
  - Regulating the form a building can take: how high it can be, how big, how close to the property line, etc.
  - What type of supporting infrastructure and amenities must be provided: how many parking spaces, driveways or sidewalks; the amount and type of landscaping; the provision of adequate and efficient water and sewer lines; etc.
  - Provides the designated use for a parcel of land
20. Land use changes can affect everything except:
- Traffic patterns & congestion
  - Quality of education and school overcrowding
  - Availability of books and libraries
  - Government infrastructure requirements (sewer, garbage, etc.)