

City of Gainesville, Florida

Fire Services Special Assessment Memorandum

MAY 2010

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Assessment Memorandum

INTRODUCTION

Government Services Group, Inc. (GSG) specializes in government finance and taxation issues by working with cities, counties, special districts and state agencies to develop unique funding and service delivery solutions for critical infrastructure and service needs. GSG has developed extensive experience in structuring and implementing alternative revenue sources in Florida.

The City of Gainesville (City) has entered into a professional services agreement with GSG to provide specialized services in the development and implementation of a non-ad valorem assessment program to fund fire services within the incorporated areas of the City (Fire Assessment Project).

The objective of the Fire Assessment Project was to develop and implement an annual assessment program to fund the City's provision of fire services (Fire Assessment). The annual assessment will be collected by using the property tax bill beginning in November 2010. This document is the Fire Assessment Memorandum (Assessment Memorandum), which is one of the project deliverables specified in the scope of services.

The work effort, documented by this Assessment Memorandum, focused on the calculation of assessment rates and classifications required to fully fund the identified assessable costs to provide fire services within the City for Fiscal Year 2010-11. However, the City has the choice of funding all or only a portion of the assessable costs based on policy direction. In addition, the work effort recorded in this Assessment Memorandum required the identification of the full costs of assessable fire services (minus all revenues) and the allocation of those costs to properties that specially benefit from the provision of such fire services. Currently, fire services provided within the City are primarily funded by the General Fund.

OBJECTIVES

The City retained GSG to develop an annual recurring special assessment program that is capable of funding all of the assessable costs associated with providing fire services. The collection of the fire assessment using the property tax bill collection process is described in section 197.3632, Florida Statutes (Uniform Method). Because the fire assessment would be collected using the Uniform Method, the data available on the ad valorem tax roll will be used to develop the Fiscal Year 2010-11 assessment program, as well as the subsequent years' programs.

Accordingly, the challenge for the City is to develop a non-ad valorem assessment program which uses property information that is or will be on the ad valorem tax roll. To this end, GSG has been charged to fully cost the services to be provided by the City, develop a fair and reasonable apportionment methodology for such assessable costs, and determine assessment rates and parcel classifications that are accurate, fair and reasonable.

The fire non-ad valorem assessments must meet the Florida case law requirements for a valid special assessment. These requirements include the following:

1. The service provided must confer a special benefit to the property being assessed; and
2. The costs assessed must be fairly and reasonably apportioned among the properties that receive the special benefit.

The work effort of this project required the evaluation of data obtained from the City to develop a fire assessment program that focuses upon the proposed Fiscal Year 2010-11 assessable cost calculations. The objectives of this initial effort were to:

- Determine the full costs of providing fire services within the City.
- Review such final cost determination with the City to determine which elements provide the requisite special benefit to the assessed properties.
- Determine the relative benefit anticipated to be derived by property classes within the City from the delivery of fire services.
- Recommend the fair and reasonable apportionment of assessable costs among benefited parcels within the City.
- Calculate assessment rates for Fiscal Year 2010-11 based on the Fiscal Year 2009-10 proposed budget.
- Ensure that the recommended assessment rates conform to the statutory requirements of the Uniform Method.

Service Description and Assessable Cost Calculations

SERVICE DELIVERY DESCRIPTION

The City of Gainesville's Fire Department is an all hazards emergency and non-emergency service provider. This organization provides fire suppression, emergency medical services (EMS at an advanced life support (ALS) level), hazmat response, state disaster mutual aid response, fire prevention inspections and life safety education. The City of Gainesville has provided high quality services for over 100 years and currently enjoys an Insurance Services Office (ISO) Class 3-9 rating. The fire service is also evaluated against the National Fire Protection Association (NFPA) Standards, which outline performance standards to measure a department's ability to provide timely fire protection services. Currently, the City of Gainesville does not meet the NFPA's performance standard of a four-minute response time 90% of the time. This is a performance goal that department staff continues to work towards.

The Fire Department facilities inventory is comprised of eight fire stations (Station 8 is planned for construction in FY 2010), an administrative office and a training facility that service the entire City. Table 1 identifies the Fire Department's buildings/facility inventory, as well as the corresponding physical location address for each facility.

Table 1
Fire Department Buildings/Facility Inventory

Station	Address
Station 1	427 S. Main Street, Gainesville, FL
Station 2	2210 SW Archer Road, Gainesville, FL
Station 3	900 NE Waldo Road, Gainesville, FL
Station 4	10 SW 36th Street, Gainesville, FL
Station 5	1244 NW 30th Avenue, Gainesville, FL
Station 6	4381 NE 47th Avenue, Gainesville, FL
Station 7	5601 NW 43rd Street, Gainesville, FL
Station 8	3223 NW 42nd Avenue, Gainesville, FL
Fire Administration	1025 NE 13 th Street, Gainesville, FL
Fire Training Facility	1026 NE 14 th Street, Gainesville, FL

Source: City of Gainesville Fire Department

The City has a Fire Services Assistance Agreement with Alachua County for fire services. The intent of the agreement is to provide the most efficient service utilizing the fire services units nearest the incident and it is intended to provide the most efficient fire services to properties within the City of Gainesville. The Agreement has an established formula for determining the costs associated with these services and provides for monthly reimbursement for the responses. Central communication services are provided by the Combined Communications Center operated by the Alachua County Sheriff's office through a separate combined communications center agreement.

Tables 2 through 5 outline the Fire Department’s current service operations and service components. Table 2 provides the Fire Department’s organizational structure.

Table 2
City of Gainesville Fire Department Organizational Chart

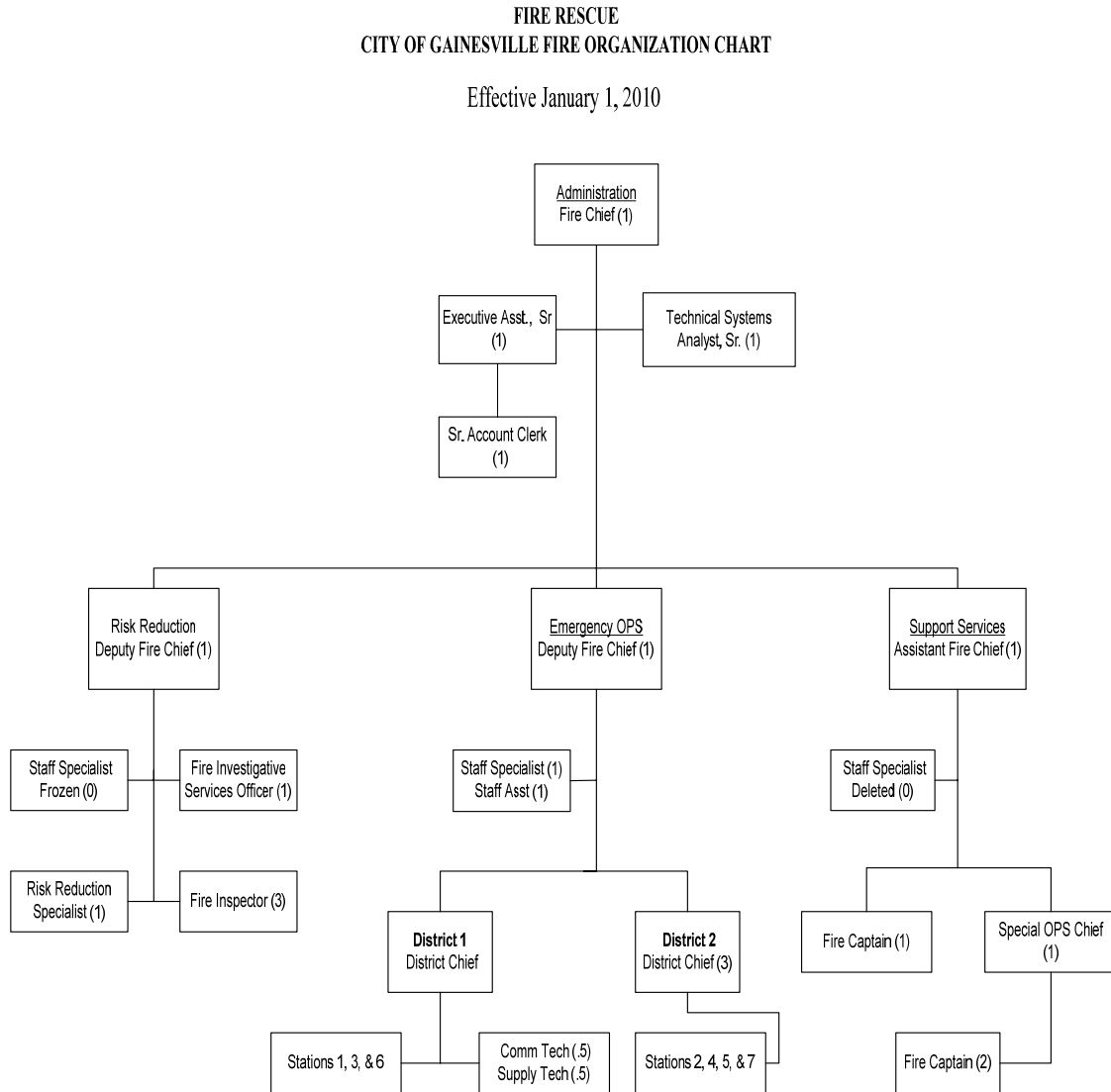


Table 3 describes the minimum staffing for each apparatus. This information is used in the development of the Administrative Factor, as further discussed in the “Development of Factors” section of this Assessment Memorandum.

Table 3
Fire Department Apparatus Minimum Staffing Requirements

Apparatus	Minimum Staffing
Engine Vehicle	3 Personnel
Tower/Quint Vehicle	4 Personnel
Squad Vehicle	2 Personnel

Source: City of Gainesville Fire Department

Table 4 lists the location and the fire flow/pumping capacity of the Fire Department’s apparatus. This information is used to determine the square footage cap for non-residential properties, if applicable. Once Station 8 is completed, Quint 5 will be housed at Station 8 and be replaced by an engine at Station 5; the pumping capacity for Engine 5 was not included in this calculation.

**Table 4
Fire Department Apparatus Location and Pumping Capacity¹**

Apparatus	Location	Fire Flow (GPM)
Engine 1	Station 1	1,750
Tower 1	Station 1	1,750
Engine 2	Station 2	1,750
Tower 2	Station 2	1,750
Engine 3	Station 3	1,750
Engine 4	Station 4	1,750
Quint 5	Station 5	1,750
Engine 7	Station 7	1,750
Total GPM		14,000

Source: City of Gainesville Fire Department

The current pumping capacity is defined as the combined amount of water that all personnel and apparatus in the Fire Department can pump to a first alarm fire in gallons per minute (GPM). Based on the apparatus detailed in Table 4 above, the pumping capacity of the City’s Fire Department is 14,000 GPM per minute. However, NFPA 1142 Annex G states that the fire flow should not exceed 12,000 GPM or be less than 250 GPM. Therefore, it is reasonable and appropriate to cap the fire flow calculation for the City at 12,000 GPM.

Table 5 details the Fire Department response protocol.

**Table 5
City of Gainesville Fire Minimum Response Protocol**

Call Type	Response
Aircraft Crash Off Airport	2 Engines, Tower, Squad, Rescue, District Chief
Aircraft Crash on Airport	2 Engines, Tower, Squad, Rescue, Aircraft Rescue and Fire Fighter, District Chief
Aircraft Fire: Parked/Empty	Engine, Aircraft Rescue and Fire Fighter, District Chief
Aircraft Inbound (confirmed problem)	2 Engines, Tower, Squad, Rescue, Aircraft Rescue and Fire Fighter, District Chief
Aircraft Inbound (reported problem)	Engine, Aircraft Rescue and Fire Fighter, District Chief
Alarm - Reduced Response	Engine
Brush Fire	Engine
Brush Fire w/Exposure	2 Engines, Tower, Rescue, District Chief, Division of Forestry
Building Collapsed / Damage w/PI	2 Engines, Tower, Squad, Rescue, District Chief
Building Damage w/o PI	Engine
Building Fire-Commercial	3 Engines, 2 Towers, Squad, Rescue, District Chief
Building Fire-Institutional	3 Engines, 2 Towers, Squad, Rescue, District Chief
Building Fire-Residential	2 Engines, Tower, Squad, Rescue, District Chief
Commercial Fire Alarm	Engine, Tower
Confined Space Rescue	2 Engines, Tower, Squad, Rescue, District Chief
Dumpster Fire	Engine
Dumpster Fire w/Exposure	2 Engines, Tower, Squad, Rescue, District Chief

¹ Station 6 aircraft firefighting units are not included in the pumping capacity calculations.

Call Type	Response
Elevated Rescue	Engine, Tower, Squad, Rescue, District Chief
Elevator Stuck	Tower
Emergency Lockout	Engine, Rescue
EMS Call	EMD PROTOCOL
EMS Call (Haz / Inhalation)	Engine, Rescue, Hazmat Unit, District Chief
Explosive Device	Engine, Tower, Rescue, District Chief
Institutional Fire Alarm	2 Engines, Tower, District Chief
Large Vehicle Fire	2 Engines, Tower, Rescue, District Chief
Level 0 Hazmat	Engine
Level 1 Hazmat	Engine, Hazmat Unit
Level 2 Hazmat	2 Engines, Rescue, Hazmat Unit, Special Operations Chief, District Chief
Level 3 Hazmat	2 Engines, Tower, Squad, Rescue, Hazmat Unit, Special Operations, District Chief
Mutual Aid Request	AS REQUESTED, District Chief
Mutual Aid Request- Hazmat	STA 2, Special Operations Chief, District Chief
Odor (not smoke) Commercial Building	Engine, Tower
Residential Fire Alarm	Engine
Service Call	Engine
Shed Fire w/o Exposure	2 Engines
Sign Fire w/o Exposure	Engine
Smoke Investigation	Engine
Storm Damage	Engine, Tower
Train Fire	2 Engines, Tower, Rescue, District Chief
Transformer Fire	Engine
Trash Fire	Engine
Trash Fire w/Exposure	2 Engines, Tower, Squad, Rescue, District Chief
Trouble Alarm	Engine
UF Automatic Alarm (non-residential)	Engine, Tower
Veh Accident w/>2 PT	Engine, 2 Rescues, Squad, District Chief
Veh Accident w/Ext	Engine, Tower, Squad, Rescue, District Chief
Veh Accident w/Hazmat	Engine, Rescue, Hazmat Unit, Special Operations Chief, District Chief
Vehicle Fire	Engine
Water / Smoke Salvage	Tower, Squad
Water Rescue	Engine, Squad, Rescue
Wires Down w/Fire	Engine

Source: City of Gainesville Fire Department

DEVELOPMENT OF FACTORS

FIRE SERVICES V. EMERGENCY MEDICAL SERVICES

In June 2000, litigation over the City of North Lauderdale fire rescue assessment program resulted in a decision by the Fourth District Court of Appeals in the case of SMM Properties, Inc. v. City of North Lauderdale, (the “North Lauderdale” case). The Fourth District Court of Appeals concluded that Emergency Medical Services (EMS) did not provide a special benefit to property. The Court, however, reaffirmed that fire suppression, fire prevention, fire/building inspections and first response medical services do provide a special benefit to property. In August 2002, the Florida Supreme Court upheld the decision of the Fourth District Court of Appeals.

To address these concerns, GSG has developed a methodology that removes the costs associated with emergency medical services. The apportionment methodology only utilizes fire incident report data related to non-EMS calls.

The proposed Fiscal Year 2010-11 projected departmental costs were allocated between fire rescue and emergency medical services because of the Florida Supreme Court’s opinion in City of North Lauderdale v. SMM Properties that emergency medical services (above the level of first response) does not provide a special benefit to property. Accordingly, the fire rescue costs were split from emergency medical service costs based on the following general guidelines.

DIRECT ALLOCATIONS

To the extent that certain line items could be allocated directly to fire, direct allocations were made. For example, all costs associated with “Fire Safety Education” and “Fire Inspections” were allocated entirely to fire. All costs associated with “Emergency Medical Technician Certification” were allocated entirely to EMS and not included in the assessable costs.

ADMINISTRATIVE FACTOR

Certain line items were allocated between fire and EMS based on an Administrative Factor. This Administrative Factor is derived by creating a ratio between non-EMS or fire personnel and total combat personnel per shift. The City’s optimal staffing level includes 24 non-EMS personnel and 12 EMS personnel, for a total of 36 combat personnel within the proposed funding timeframe. This optimal staffing yields a 66.67% percent non-EMS Administrative Factor. Personnel that will be assigned to Station 8 once completed were not included in this calculation.

This percentage was then applied to all applicable line items to allocate the costs that could not be directly allocated as fire costs or EMS costs, and that could not be operationally allocated (see below). For example, the Administrative Factor was applied to the personnel expenditures for salaries and benefits, as well as line item expenditures such as “Uniform Purchase Price,” “Utilities – Electric, Water, Sewer,” and “Maintenance/Office Other Equipment” to determine the fire service costs of these line items.

OPERATIONAL FACTOR

Other assessable cost line items may also be allocated between fire and EMS based on an Operational Factor. The Operational Factor is derived by creating a ratio between non-EMS (i.e. fire) calls and EMS calls, and this ratio, which is based on the City Fire Department’s operations, was then applied to certain budget line items such as “Gasoline, Oil and Grease” and “Fleet Service Cost - Variable”.

Given the automatic aid agreement between the City and Alachua County (detailed in the Fire Services Assistance Agreement) provides the response protocols that dictate the closest units respond to a call for service, there were some incidents within the City limits that received a response only from the County. In order to capture the entire universe of calls, the City provided incident data from the County's records management system for those calls within the City limits, but without an incident report maintained by the City.

Once the universe of calls was identified, GSG used the City's Florida Fire Incident Reporting System (FFIRS) to ascertain the details of each incident. FFIRS is a tool for fire departments to report and maintain computerized records of fire rescue incidents and other department activities in a uniform manner. Under this system, a series of basic phrases with code numbers are used to describe fire rescue incidents. A data field in the FFIRS, "type of situation found," identifies the incident as an EMS or non-EMS type of call for each incident. Appendix A provides a codes list for the "type of situation found" as recorded on the fire rescue incident reports used to identify EMS and non-EMS calls. Another data field in the FFIRS, "fixed property use," identifies the type of property that fire departments respond to for each fire rescue incident. The fixed property uses correlate to property uses determined by the Alachua County Property Appraiser on the ad valorem tax roll. Appendix B provides a codes list for the "fixed property use" as recorded on the fire rescue incident reports.

For Calendar Year 2009, the City reported 15,760 total fire rescue incident calls, of which 3,705 were non-EMS (i.e. fire) calls and 12,055 were EMS calls. This information results in a 23.51% non-EMS Operational Factor. The ratio between non-EMS (i.e. fire) calls and EMS calls is then applied to all applicable line items to allocate the costs that could not be directly allocated as fire costs or EMS costs, and that could not be administratively allocated.

ASSESSABLE COST CALCULATIONS

The fire services assessable cost calculations for Fiscal Years 2010-11 through 2014-15 are based on the following assumptions for the purpose of this Fire Assessment Memorandum.

- Unless more accurate information was available, a one percent annual increase was applied across all "Personnel Services."
- "Operating Expenditures" and "Other Expenses" were increased one percent annually. Revenues were increased one percent annually.
- "Capital Improvement Plan - Consolidated" and "Indirect Costs" were held constant over the projection period.
- Revenues are shown as a reduction of the total projected expenditures for each fiscal year, thereby reducing the total assessable costs for that year. Revenues are comprised of revenues directly received from or for the delivery of fire services, such as "Open Burn Permits," "Fire Inspection Fees," and "False Alarm Penalties."
- The line item "Study Reimbursement - Phase 1" and "Study Reimbursement - Phase 2" under "Additional Costs" is the cost associated with the development of the updated assessment study.
- Pursuant to section 197.3632, Florida Statutes, the tax collector and property appraiser may each enter into an agreement with the local government for reimbursement of necessary administrative costs incurred from the collection of the non-ad valorem assessment. Accordingly, if any such fee(s) is charged, the fee may be recouped as an add-on to the total assessable costs for the year.

The line item "Collection Costs (Tax Collector)" under "Additional Costs" reflects reimbursement for the collection costs associated with the non-ad valorem assessment incurred by the Tax Collector. Pursuant to section 197.3632, Florida Statutes, a municipal or county government shall only compensate the tax collector for the actual costs of collecting the non-ad valorem assessment.

- The line item “Statutory Discount” under “Additional Costs” reflects a 95% collection of the Fire Services Assessment to cover the 4% statutory discount allowed by the Uniform Method and 1% reserve for under collection. Accordingly, the statutory discount is budgeted at 5% of the total assessable costs.

Table 6 provides a calculation of the assessable costs for Fiscal Year 2010-11 based on an application of the above factors to the Fiscal Year 2009-10 Proposed Budget. The calculation yields an assessable cost of \$10,611,497 for Fiscal Year 2010-11.

Table 6
Fire Services Assessable Cost Calculations (FY 2010-11)

	2009-10 Proposed Budget	FY 10-11 Proforma Budget	FY 10-11 Assessable Budget
Personnel Services			
Regular Pay	\$8,514,049	\$8,599,189	\$5,899,340
Overtime-One And One-Half Rate	\$363,636	\$367,272	\$246,425
Holiday Pay	\$95,395	\$96,349	\$64,233
Special Assignment	\$136,712	\$138,079	\$94,693
Longevity	\$157,914	\$159,493	\$109,718
Technical Rescue Support (Fire)	\$30,255	\$30,558	\$20,372
Hazmat Incentive Pay	\$55,150	\$55,702	\$55,702
EMT Certification	\$524,259	\$529,502	\$0
Education Incentive Fire Fight	\$50,760	\$51,268	\$35,269
FLSA	\$59,745	\$60,342	\$40,228
Social Security	\$752,621	\$760,147	\$520,591
Retirement	\$560,004	\$565,604	\$387,429
Disability Pen. Contribution	\$2,745	\$2,772	\$2,006
Consolidated Pension Contribution	\$14,309	\$14,452	\$9,635
Health Insurance	\$687,726	\$694,603	\$475,459
Retirees Health Insurance Contributions	\$39,131	\$39,522	\$27,030
Life Insurance	\$10,986	\$11,096	\$7,591
Worker's Compensation	\$119,773	\$120,971	\$82,855
Dry Cleaning	\$7,410	\$7,484	\$5,757
Clothing Allowance	\$595	\$601	\$601
Safety Awards	\$19,201	\$19,393	\$12,929
Total Salaries And Benefits	\$12,202,376	\$12,324,400	\$8,097,170
Operating Expenditures			
Non-Capital Equipment	\$47,756	\$48,234	\$32,156
Materials and Supplies	\$90,384	\$91,288	\$69,417
Office Supplies	\$12,030	\$12,150	\$8,945
Printing and Binding	\$4,085	\$4,126	\$2,948
Uniform Purchase Price	\$95,669	\$96,626	\$64,803
Telephone	\$49,216	\$49,708	\$34,497
T.R.S. Access Charge	\$87,355	\$88,229	\$58,819
Postage	\$1,700	\$1,717	\$1,246
Utilities-Electric, Sewer, Water	\$113,520	\$114,655	\$76,947
Gasoline, Oil, Grease	\$140,550	\$141,956	\$45,764
Assessment Centers	\$6,500	\$6,565	\$4,377
Local Travel	\$3,825	\$3,863	\$2,576
Travel & Training	\$61,192	\$61,804	\$51,098
Books & Film	\$5,678	\$5,735	\$4,565
Dues, Memberships, Publication	\$10,842	\$10,950	\$8,885

	2009-10 Proposed Budget	FY 10-11 Proforma Budget	FY 10-11 Assessable Budget
Rental-Equipment	\$12,209	\$12,331	\$9,748
Insurance Premiums	\$405,916	\$409,975	\$273,317
Professional Services	\$186,588	\$188,454	\$132,201
Other Contractual Services	\$89,158	\$90,050	\$82,411
Fleet Service Cost-Variable	\$261,627	\$264,243	\$65,541
Fleet Service Cost-Fixed	\$341,992	\$345,412	\$235,306
Maintenance Office/Other Equip	\$34,832	\$35,180	\$23,454
Machinery and Equipment	\$23,000	\$23,230	\$15,487
Total Operating Expenditures	\$2,085,624	\$2,106,480	\$1,307,506
Other Expenses			
Combined Communications Center	\$391,848	\$395,766	\$93,040
Fire Services Assistance Agreement	\$570,240	\$576,000	\$135,411
Total Other Expenses	\$962,088	\$971,766	\$228,451
Capital Improvement Plan - Consolidated			
Capital Equipment for Training Stations	\$0	\$54,015	\$36,010
Public Safety Equipment - Fire	\$0	\$86,750	\$86,750
Mobile Station Alerting System	\$0	\$27,500	\$6,465
Special Operations Equipment - Fire	\$0	\$10,000	\$10,000
Asset Maintenance For Buildings & Grounds	\$0	\$235,000	\$156,667
Fire Station 5 Remodel (One-time cost in FY12)	\$0	\$0	\$0
Total Capital Outlay	\$0	\$413,265	\$295,892
Indirect Costs			
Indirect Costs - Fire	\$952,707	\$952,707	\$635,138
Total Indirect Costs	\$952,707	\$952,707	\$635,138
Total Expenditures	\$16,202,795	\$16,768,618	\$10,564,157
Revenues			
Open Burn Permit	\$10,000	\$10,100	\$10,100
Fire Inspection Fees	\$75,337	\$76,090	\$76,090
False Alarm Penalties	\$80,000	\$80,800	\$80,800
Airport Fire Station	\$479,325	\$484,118	\$322,746
Hazmat Gross Receipts Tax	\$247,372	\$249,846	\$249,846
Total Revenues	\$892,034	\$900,954	\$739,582
Total Expenditures		\$16,768,618	\$10,564,157
Total Revenues		\$900,954	\$739,582
Total Net Expenditures		\$15,867,664	\$9,824,576
Additional Costs			
Collection Costs @ 2% (tax collector)			\$196,492
Statutory Discount @ 5% (4% early payment / 1% non-collection)			\$491,229
Study Reimbursement - Phase I			\$35,000
Study Reimbursement - Phase 2			\$20,000
Projected Notice Costs			\$44,200
Total Additional Costs			\$786,921
Total Assessable Costs			\$10,611,497

Table 7 shows the calculation of the full cost of the Fire Services Assessment Program for Fiscal Year 2010-11 through Fiscal Year 2014-15 as well as the five-year average Fire Services Assessment Program cost.

Table 7
Fire Services Assessable Cost Calculations Proforma Five-Year Average (Fiscal Year 2010-11 through 2014-15)

	FY 10-11 Assessable Budget	FY 11-12 Assessable Budget	FY 12-13 Assessable Budget	FY 13-14 Assessable Budget	FY 14-15 Assessable Budget	Five-Year Average Assessable Budget
Total Salaries And Benefits	\$8,097,170	\$8,178,142	\$8,259,923	\$8,342,523	\$8,425,948	\$8,260,741
Total Operating Expenditures	\$1,307,506	\$1,320,581	\$1,333,787	\$1,347,125	\$1,360,596	\$1,333,919
Total Other Expenses	\$228,451	\$230,736	\$233,043	\$235,374	\$237,727	\$233,066
Total Capital Outlay	\$295,892	\$433,342	\$217,820	\$202,720	\$199,581	\$269,871
Total Indirect Costs	\$635,138	\$635,138	\$635,138	\$635,138	\$635,138	\$635,138
Total Expenditures	\$10,564,157	\$10,797,939	\$10,679,712	\$10,762,879	\$10,858,991	\$10,732,735
Total Revenues	\$739,582	\$746,977	\$754,447	\$761,992	\$769,612	\$754,522
Total Net Expenditures	\$9,824,576	\$10,050,961	\$9,925,264	\$10,000,887	\$10,089,379	\$9,978,214
Additional Costs						
Collection Costs @ 2% (Tax Collector)	\$196,492	\$201,020	\$198,506	\$200,018	\$201,788	\$199,565
Statutory Discount @ 5% (4% Early Payment / 1% Non-Coll)	\$491,229	\$502,549	\$496,264	\$500,045	\$504,469	\$498,911
Study Reimbursement - Phase I	\$35,000	\$0	\$0	\$0	\$0	\$7,000
Study Reimbursement - Phase 2	\$20,000	\$0	\$0	\$0	\$0	\$4,000
Projected Notice Costs	\$44,200	\$0	\$0	\$0	\$0	\$8,840
Total Additional Costs	\$786,921	\$703,569	\$694,770	\$700,063	\$706,257	\$718,316
Total Assessable Costs	\$10,611,497	\$10,754,531	\$10,620,035	\$10,700,951	\$10,795,637	\$10,696,530

Apportionment Methodology

The apportionment methodology is based upon the development of a base-billing unit, called a Fire Protection Unit. A Fire Protection Unit is a measure that serves as a common index to compare the fire flow requirements for each building within the Fire Service Area; each Fire Protection Unit equates to the Fire Department's capability to effectively deliver 300 gallons per minute (GPM) of effective fire flow, which equates to the City's initial full alarm response. The Fire Protection Unit assignments vary for each building within the Fire Service Area based upon each building's occupancy hazard classification(s) (Hazard Class) and building area calculated in square foot increments of building improvements.

The City Commission will set the fire services assessment rate for buildings in terms of dollars per Fire Protection Unit per year; the assessment amount due is calculated by multiplying the number of Fire Protection Units on the parcel by the rate per Fire Protection Unit.

SPECIAL BENEFIT ASSUMPTIONS

The following assumptions support a finding that the fire services, facilities, and programs provided by the City provide a special benefit to the assessed parcels.

- Fire services, facilities, and programs possess a logical relationship to the use and enjoyment of property by: (i) protecting the value and integrity of improvements and structures through the availability and provision of comprehensive fire services; (ii) protecting the life and safety of intended occupants in the use and enjoyment of property; (iii) lowering the cost of fire insurance by the presence of a professional and comprehensive fire program; and (iv) containing fire incidents occurring on land with the potential to spread and endanger other property and property features.
- The availability and provision of comprehensive fire services enhances and strengthens the relationship of such services to the use and enjoyment of the parcels of property, the market perception of the area and, ultimately, the property values within the assessable area.

APPORTIONMENT METHODOLOGY

The following section describes the recommended two-step apportionment methodology.

The first step of the apportionment methodology uses the relationships established in NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting (2007 Edition) for determining the required amount of fire flow to fight a fire based upon certain building characteristics. The formula provided in Annex G of NFPA 1142 uses a combination of factors to calculate the fire flow for each building within the Fire Service Area based upon occupancy hazard classifications and building area calculated in square foot increments of building improvements. The NFPA formula used in the apportionment methodology uses ordinary construction as the basis because a majority of the buildings within the Fire Service Area are considered ordinary construction, which is any building that is not constructed with fire resistive or noncombustible materials. The Insurance Services Organization (ISO) Guide for Determination of Needed Fire Flow (Edition 05-2006) contains an identical formula.

In addition, NFPA 1710 (2010 Edition), which is the Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Career Fire Departments and which also reflects the City's standards and practices, was also used to assign Fire Protection Units to each building. The purpose of this standard is to specify the minimum criteria addressing the effectiveness and efficiency of the career public fire suppression operations, emergency medical service, and special operations delivery in protecting the citizens of the jurisdiction. Adoption of this standard is not mandatory in the State of Florida although it is the recognized industry standard in Florida and the United States. Although not formally adopted by the City, the City strives to meet these standards and uses them to determine their resource allocation.

NFPA 1710 and the City's standards and practices, state that fire suppression operations should be organized to ensure the fire department's fire suppression capability includes personnel, equipment and resources to deploy the initial arriving company, the full initial alarm assignment and additional alarm assignments. The initial full alarm assignment should provide the establishment of an uninterrupted water supply of a minimum of 300 GPM for 30 minutes. This standard, which is used by the City, was used to assign Fire Protection Units to each building. Therefore, each Fire Protection Unit equates to the fire department's capability to effectively deliver 300 GPM and the Fire Protection Unit assignments vary by Hazard Class.

The Fire Protection Units for each building is a proxy for the number of fire fighters, type, quantity and size of apparatus and other special fire fighting equipment required to be available for each building in the Fire Service Area pursuant to the City's standard resource allocation for an initial response to a fire call. It is fair and reasonable to use the Fire Protection Units for each building because the fire flow requirement for each building provides a reasonable estimation of the costs of the fire fighters, apparatus, equipment, services, facilities and programs the City must have available to serve each building and these fire fighting resources are directly funded by the Fire Services Assessment.

The second step of the apportionment methodology develops a relationship between the occupancy hazard classifications to address the actual time spent in response to fire incidents and the time available to respond to primary structure fire incidents. To develop this relationship, GSG used information included in the City's Florida Fire Incident Reporting System (FFIRS). The FFIRS is a tool for fire departments to report and maintain computerized records of fire rescue incidents and other department activities in a uniform manner.

DETERMINATION OF FIRE PROTECTION UNITS – STEP ONE

GSG obtained information from the ad valorem tax roll from the Alachua County Property Appraiser's office to determine Fire Protection Units. Based upon NFPA 1142 standards, a Hazard Class was assigned to each building within the Fire Service Area based upon the building's assignment of use by the County Property Appraiser or verification of use obtained through field research. According to NFPA 1142, the lowest Hazard Class number is 3, and it is assigned to the highest (most hazardous) hazard group. The highest Hazard Class number is 7, and it is assigned to the lowest (least hazardous) hazard group. For example, Hazard Class 3 properties include plywood and particleboard manufacturing, plastic processing and cereal or flour mills while Hazard Class 7 properties include residential dwellings, apartments and offices.

In addition, for all parcels within the municipal boundary, GSG determined the amount of square footage of the structures using the building files on the ad valorem tax roll or through the use of field research. The information regarding the number of stories and the square footage attributable to each story was incomplete on the ad valorem tax roll so the actual square footage of the buildings was used in the apportionment methodology.

Using the fire flow calculation from NFPA 1142, a Fire Protection Unit was assigned to each square foot increment by Hazard Class. The number of Fire Protection Units assigned to a building represents that building's proportionate share of the burden of maintaining the fire department and the availability of

these vital public services. The number of Fire Protection Units assigned to a building was determined by the Hazard Class assignment and the amount of building area contained in a building –a larger building area and/or riskier Hazard Class translates into more needed fire flow, which increases the cost of providing fire services. This higher cost is charged to that particular building.

The method for determining fire flow does not include large, special fire protection problems such as lumberyards, petroleum storage, refineries, grain elevators and large chemical plants that would require greater fire flow. If there were any of these types of properties with predetermined fire flow plans, those plans were utilized; if predetermined fire flow plans did not exist, properties were assigned the riskiest hazard classification.

METHODOLOGY ASSUMPTIONS

The following assumptions support findings that the apportionment methodology is fair and reasonable.

- It is fair and reasonable to use the formula provided in NFPA 1142, the Standard on Water Supplies for Suburban and Rural Fire Fighting (2007 Edition) to calculate the required fire flow and resources for a structure because NFPA 1142 provides standards to assist fire departments with the establishment of the fire flow necessary for structural fire fighting purposes and the City utilizes this standard in determining its resource allocation.
- A fire in a building containing highly combustible contents will require a higher rate of fire flow and associated resources due to the greater risk of fire spread and heat release than a building with contents of low combustibility and the City must allocate its fire fighting resources to provide this greater fire flow demand. Therefore, it is fair and reasonable to use the Hazard Classes established by NFPA 1142, Chapter 5 because such standard contains the best practices in the fire fighting industry and is the most comprehensive, accurate and reliable information with regard to building risk assignments.
- The greater the size of the building, the greater the potential for a large fire and the greater the fire flow requirement that must be available in the event of a fire in a structure of that building's size and Hazard Class. Therefore, it is fair and reasonable to apportion the assessed costs based on the size of each building.
- It is fair and reasonable to use the City's operational standards and practices as provided in NFPA 1710 (2010 Edition), the Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Career Fire Departments to determine the effective fire flow because this standard states that fire suppression operations should be organized to ensure the fire department's fire suppression capability includes personnel, equipment and resources to deploy the initial arriving company, the full initial alarm assignment and additional alarm assignments and that the initial full alarm assignment should provide the establishment of an effective fire flow of a minimum of 300 GPM for 30 minutes.
- The City's initial full alarm assignment provides for the establishment of an effective fire flow of 300 GPM. It is fair and reasonable to use the City's response protocol as the basis for calculating the Fire Protection Units assigned to each building, because each Fire Protection Unit equates to the fire department's capability to effectively deliver fire flow of 300 GPM.
- The assignment of the City's standards and practices for building uses based on the relationships established in NFPA 1142 and NFPA 1710 is fair and reasonable because the resource components of these relationships (fire stations, training, apparatus and personnel) are directly funded by the special assessment revenue.
- The assignment of Fire Protection Units is fair and reasonable because the demand for fire services capacity is measured by the square footage of structures and improvements and Hazard Class assignment within benefited parcels.

- The assignment of Fire Protection Units within square footage ranges is a fair and reasonable method to classify benefited buildings and to apportion costs among benefited buildings that create similar demand for the availability of fire services.
- The demand for the availability of fire services diminishes at the outer limit of building size since a fire occurring in a building greater than a certain size is not capable of being suppressed under expected conditions and the fire control activities under such circumstances are directed to avoid the spread of the fire event to adjacent structures. Therefore, it is fair and reasonable to place a cap on the fire flow within the Hazard Classes.
- As a consequence of the transient use and potential extraordinary vacancies within mobile home parks as compared to other residential property and the lack of demand for fire services for unoccupied spaces, it is fair and reasonable to provide for an extraordinary vacancy adjustment procedure for mobile home park property.
- Section 125.0168, Florida Statutes and section 166.223, Florida Statutes, provide that when a county or city levies a non-ad valorem special assessment on a recreational vehicle park regulated under chapter 513, Florida Statutes, the non-ad valorem special assessment shall not be based on the assertion that the recreational vehicle park is comprised of residential units. Instead, recreational vehicle parks regulated under chapter 513, Florida Statutes shall be assessed as a commercial entity in the same manner as a hotel, motel, or other similar facility.
- In accordance with section 166.223, Florida Statutes, which mandates that the City treat recreational vehicle park property as commercial property for non-ad valorem special assessments levied by the City, like the fire services assessment, it is fair and reasonable to assign the square footage of 191 square feet, the average size of a recreational vehicle, according to the Florida Association of RV Parks and Campgrounds to each space within recreational vehicle park property.

ASSIGNMENT OF FIRE PROTECTION UNITS TO BUILDINGS

Each building within the Fire Service Area on the ad valorem tax roll was assigned to a Hazard Class based on its assignment of use by the Alachua County Property Appraiser or verification of use obtained through field research. The Alachua County Property Appraiser assigns a building use code (BUC) that is a four-digit code describing the type of improvements on a parcel. A listing of BUC codes is provided as Appendix D.

Using the building codes, the specific methodology for the assignment of Fire Protection Units to each building is generally described below.

- The City's initial response protocol of 300 GPM of effective fire flow;
- The use of actual building area and Hazard Class assignment in the calculation of Fire Protection Units to quantify the building's fire flow requirement;
- For mobile home parks, assign Fire Protection Units based on the average estimated building area of 720 square feet for each mobile home space and assigned one Fire Protection Unit; however, these properties will be eligible for an extraordinary vacancy adjustment for vacant mobile home spaces.
- For residential condominium parcels, the area of each condominium within each building will be aggregated and assigned Fire Protection Units. The aggregate Fire Protection Units for each complex will be divided by the number of parcels (condo units) in the complex to determine the Fire Protection Units for each parcel.
- For commercial condominium parcels, the area of each condominium within each building will be aggregated and assigned Fire Protection Units. The building's Fire Protection Units will be multiplied by each parcel's (condo unit) percentage of the total square feet of the building to determine the Fire Protection Units for the parcel.

- For townhouse parcels, the area of each townhouse within each building will be aggregated and assigned Fire Protection Units. The aggregate Fire Protection Units for each complex will be divided by the number of parcels in the complex to determine the Fire Protection Units for each parcel.
- For recreational vehicle park parcels, Fire Protection Units will be assigned based upon the number of spaces multiplied by 191 square feet and aggregated as one building. Fire Protection Units for the other primary structures will be based on their individual square footage. All recreational vehicle spaces within a recreational vehicle park will be included; however, these properties will be eligible for an extraordinary vacancy adjustment for vacant recreational vehicle spaces.
- Parcels that are identified as special fire protection problems such as lumberyards, petroleum storage, refineries, grain elevators and large chemical plants were assigned the riskiest hazard classification since predetermined fire flow plans were not available. The actual fire flow requirement is then divided by the City’s initial full alarm response of 300 GPM to determine the number of Fire Protection Units.
- The incorporation of credits for parcels with a building equipped with a functioning and properly designed, fully automated fire sprinkler system.

Table 8 shows the final assignment of Fire Protection Units by Hazard Class.

**Table 8
Fire Protection Units by Hazard Class**

Hazard Class	Fire Protection Units
Hazard Class 3 & 4	9,210.42
Hazard Class 5	994.72
Hazard Class 6	2,140.45
Hazard Class 7	61,670.25
Total	74,015.83

Source: Preliminary Assessment Roll

DEMAND–AVAILABILITY FACTOR – STEP TWO

Once the Fire Protection Units have been assigned to each building, the next step of the apportionment methodology develops a relationship between the occupancy hazard classifications to address the actual time spent in response to fire incidents and the time available to respond to primary structure fire incidents (Demand-Availability Factor). This two-part factor is developed for each Hazard Class based on the proportion of person-hours attributable to the Demand and Availability Components.

DEMAND-AVAILABILITY COMPONENT ASSUMPTIONS

The following assumptions support findings that the methodology used to determine the Demand-Availability Components is fair and reasonable.

- Determining the number of person-hours attributable to the actual time spent in response to fire incidents and the time available to respond to fire incidents based on information included in the fire incident reports is fair and reasonable because the fire incident reports were developed to provide this information and are the most reliable data available to professional fire departments.
- Apportioning the number of fire incidents among Hazard Classes to determine the Demand Component Factor for each Hazard Class is fair and reasonable because the fire incident reports are the most reliable data available to determine the historical demand for fire services from Hazard Classes and to determine the benefit to property use resulting from the demand for fire services to

protect and serve buildings located upon assessed property and their intended occupants. There exist sufficient fire incident reports that document the historical demand for fire services from assessed property within the Hazard Classes.

- Using the same percentage of person-hours available for calls to determine the Availability Component Factor for all Hazard Classes is fair and reasonable because the Fire Department's staffing for potential responses is not dictated by the Hazard Class and because such allocation provides a reasonable estimation of the costs of the availability of fire services, staff, facilities and programs for all structures.

CALCULATION AND APPLICATION OF DEMAND-AVAILABILITY FACTORS

To calculate the Demand and Availability Components, first, the person-hours associated with the historical fire calls and the person-hours associated with time available to respond to primary structure incidents were determined as follows:

- (1) The total number of scheduled hours for fire services versus emergency medical services based on minimum staffing of 36 combat personnel per shift including an adjustment for hours spent by EMS personnel on fire calls:

Fire hours = 212,136.3

EMS hours = 103,223.7

Total hours = 315,360.0

- (2) The total number of person-hours spent on all fire incidents was calculated from the actual incident data fields:

19,795.6 hours

- (3) The average amount of time spent on incident reports for each incident was estimated at 0.25 hours for each incident:

3,705 incidents x 0.25 hours = 926.3 hours

- (4) The total number of person-hours spent on training was based on the City's comprehensive training program that exceeds the minimum requirements as set forth by the Insurance Services Office (ISO). The City training program requires a minimum of 360 annual training hours for each firefighter:

132 firefighters x 360 hours = 47,520.0 hours

Based on these calculations, it was determined that approximately 68,241.9 person-hours per year were spent on responses to fire calls out of 212,136.3 total scheduled annual person-hours for fire services. Therefore, the remainder of the person-hours (143,894.5), or 67.83% of the person-hours per year are required to be available to respond to primary structure fire incidents and 32.17% of the person-hours are spent in actual response to fire calls.

DEMAND COMPONENT

To determine the Demand and Availability Components, GSG obtained the incident information from the City in an electronic format, identifying the number and type of fire rescue incident responses by City Fire Department vehicles and County Fire Department vehicles within the city limits for Calendar Year 2009. Under this system, a series of basic phrases with code numbers are used to describe fire rescue

incidents. A data field in the FFIRS, “fixed property use”, identifies the type of property that fire departments respond to for each fire rescue incident. The fixed property uses correlate to building uses determined by the Alachua County Property Appraiser on the ad valorem tax roll. Appendix B provides a codes list for the “fixed property use” as recorded on the fire rescue incident reports.

GSG analyzed the Calendar Year 2009 fire rescue incident data. The City fire rescue incident data from Calendar Year 2009 represent 15,760 fire rescue incidents. Of the 15,760 fire rescue incidents, there were 12,055 incidents classified as EMS type incidents based on the type of situation found indicated on the incident report. The 12,055 EMS type incidents were not included in the analysis.

Of the 3,705 remaining fire type incidents, 2,869 were calls to specific property uses. Accordingly, 836 incidents were considered non-specific type incidents. Because of the inability to correlate these non-specific type incidents to specific property categories, the call analysis does not include these 836 incidents. The City’s budget is based upon its ability to provide service to improved property within its boundaries. Therefore, the level of services required to meet anticipated demand for fire services and the corresponding annual fire services budget required to fund fire services provided to non-specific property uses would be required notwithstanding the occurrence of any incidents from such non-specific property use.

The suppression of fires on vacant land and agricultural property primarily benefits adjacent property by containing the spread of fire rather than preserving the integrity of the vacant parcel. Thus, incidents to vacant and unimproved agricultural property were treated as non-specific and not utilized in the cost apportionment.

Using the fixed property use codes, the remaining 2,869 fire type incidents were assigned to their corresponding Hazard Classes. Because of the limited number of properties for Hazard Class 3, the fire incidents and properties for Hazard Class 3 and Hazard Class 4 were combined. Table 9 outlines the hazard class assignment of fire type incidents based on the historical demand for service in each zone.

**Table 9
Fire Calls by Hazard Classification (Calendar Year 2009)**

Category	Number of Incidents	Percentage of Calls
Hazard Class 3 & 4	223	7.77%
Hazard Class 5	91	3.17%
Hazard Class 6	238	8.30%
Hazard Class 7	2,317	80.76%
Total	2,869	100.00%

Source: City of Gainesville Fire Department (2009)

The Demand Component Factor is calculated for each Hazard Class by dividing the Hazard Class's Incidents per Fire Protection Unit by the average Incidents per Fire Protection Unit for all Hazard Classes and multiplying by the Demand Component percentage of person-hours (32.17%). Calendar Year 2009 fire call data was used to calculate the Incidents per Fire Protection Unit.

Demand Component Factor =

$$\text{Incidents/Fire Protection Units} \div \text{Average Incidents/Fire Protection Units} \times 32.17\%$$

Table 10 shows the calculation of the Demand Component Factor by Hazard Class for each service level zone.

**Table 10
Calculation of Demand Component Factor**

Hazard Class	Incident Count	Fire Protection Units	Incidents per Fire Protection Unit	Demand Component Factor
Hazard Class 3 & 4	223	9,210.42	0.0242	0.2009
Hazard Class 5	91	994.72	0.0915	0.7592
Hazard Class 6	238	2,140.45	0.1112	0.9228
Hazard Class 7	2,317	61,670.25	0.0376	0.3118
Total/Average	2,869	74,015.83	0.0388	

The Availability Component Factor is the percent of person-hours available for calls; this component is the same for all hazard classes and was calculated at 67.83%.

The next step adds the two factors for each component as shown in Table 11.

**Table 11
Demand-Availability Factor by Hazard Class**

Hazard Class	Demand Component Factor	Availability Component Factor	Combined Factor
Hazard Class 3 & 4	0.2009	0.6783	0.8792
Hazard Class 5	0.7592	0.6783	1.4375
Hazard Class 6	0.9228	0.6783	1.6011
Hazard Class 7	0.3118	0.6783	0.9901

These factors were applied to the actual Fire Protection Units to calculate the Factored Fire Protection Units for each Hazard Class and are provided in Table 12.

**Table 12
Factored Fire Protection Units**

Hazard Class	Fire Protection Units	Combined Factor	Factored Fire Protection Units
Hazard Class 3 & 4	9,210.42	0.8792	8,097.80
Hazard Class 5	994.72	1.4375	1,429.91
Hazard Class 6	2,140.45	1.6011	3,427.07
Hazard Class 7	61,670.25	0.9901	61,059.71
Totals/Average	74,015.83		74,014.49

CREDITS FOR FIRE SAFETY MEASURES

Fire flow, as expressed in Fire Protection Units, is a proxy for all the fire-fighting resources that would be dispatched to any incident involving property. Even with a building equipped with a functioning and properly designed, fully automated fire sprinkler system, the City's fire fighting resources must still be present at the scene of any fire incident to control the scene, respond in the event of a system malfunction, ultimately extinguish any fire, and ensure the safety of all structures involved. However, fully functioning and properly designed fire sprinkler systems may provide some measure of built-in fire protection which may lessen the total fire suppression burden and the use of the City's fire fighting resources. Further, as an incentive to encourage existing and new buildings to employ these types of fire safety measures, mitigation credits may be granted by the City for buildings with fire sprinkler systems that are installed, monitored, inspected, maintained and tested to the specifications of City standards.

The mitigation credit was based on the sprinklered building information provided by the City. The Alachua County Property Appraiser provided a complete list of buildings with approved and functioning fire sprinkler systems. This list was used as the basis for the estimation of buildings with a fire sprinkler system. A study conducted by the City in 2003 confirmed the estimate. A complete description of the City's credit mitigation policy will be provided in the Final Assessment Resolution or by supplemental resolution.

To estimate the potential impact of reduced Factored Fire Protection Units due to credit application, the Factored Fire Protection Units were reduced by 10% for all properties that contain fire sprinkler systems as provided in Table 13.

Table 13
Factored Fire Protection Units after Credits

Hazard Class	Fire Protection Units	Factored Fire Protection Units	Net Factored Fire Protection Units After Credits
Hazard Class 3 & 4	9,210.42	8,097.80	7,509.83
Hazard Class 5	994.72	1,429.91	1,318.54
Hazard Class 6	2,140.45	3,427.07	3,143.00
Hazard Class 7	61,670.25	61,059.71	57,348.54
Total	74,015.83	74,014.49	69,319.91

Computation of Fire Services Assessment Rates

Based on the five-year average assessable costs of providing fire services and the number of factored Fire Protection Units after credit application, Table 14 summarizes the maximum allowable fire services assessment rates after application of the proposed assessment methodology. The information is shown on a rate per Fire Protection Unit basis. The actual assessment amount for a particular property is calculated by multiplying the rate per Fire Protection Unit by the number of factored Fire Protection Units assigned to that property.

Table 14
Proforma Assessment Rates – Maximum Funding Level (Based on Five-Year Average Assessable Budget)

Total Assessable Costs	\$10,696,530.00
Total Number of Fire Protection Units	69,319.91
Annual Rate per Fire Protection Unit	\$155.00

Source: Preliminary Assessment Roll

Table 15 summarizes the fire services assessment rates, after application of the proposed assessment methodology, based upon revenue generation level of 67% of the maximum allowable fire services assessment rates. The information is shown on a rate per Fire Protection Unit basis. The actual assessment amount for a particular property is calculated by multiplying the rate per Fire Protection Unit by the number of factored Fire Protection Units assigned to that property.

Table 15
Proforma Assessment Rates – 67% Funding Level (Based on Five-Year Average Assessable Budget)

Total Assessable Costs	\$7,166,675.00
Total Number of Fire Protection Units	69,319.91
Annual Rate per Fire Protection Unit	\$104.00

Source: Preliminary Assessment Roll

Table 16 summarizes the fire services assessment rates, after application of the proposed assessment methodology, based upon revenue generation level of 33% of the maximum allowable fire services assessment rates. The information is shown on a rate per Fire Protection Unit basis. The actual assessment amount for a particular property is calculated by multiplying the rate per Fire Protection Unit by the number of factored Fire Protection Units assigned to that property.

Table 16
Proforma Assessment Rates – 33% Funding Level (Based on Five-Year Average Assessable Budget)

Total Assessable Costs	\$3,529,855.00
Total Number of Fire Protection Units	69,319.91
Annual Rate per Fire Protection Unit	\$51.00

Source: Preliminary Assessment Roll

Exemptions and Impact of Exemptions

It is important to understand that the fair apportionment element required by Florida case law prohibits the shifting of the fiscal costs of any special assessment from exempt landowners to other non-exempt landowners. In other words, the funding for an exemption from a special assessment must come from a legally available external revenue source, such as the City’s general fund. Funding for fire services assessment exemptions cannot come from the proceeds derived directly from the imposition of special assessments for fire services and facilities. Because any exemption must be funded by an external funding source, the grant of any exemption will not have any impact upon the fire services assessment to be imposed upon any other non-exempt parcels.

State and federal laws contain a patchwork of provisions exempting certain governmental property owners from the payment of special assessments. For example, section 423.02, Florida Statutes, exempts certain housing projects from the payment of special assessments. This general law does provide that a housing authority may agree with a local government to make payments in lieu of taxes, but past experience is that such an agreement, if in existence at all, under-funds the impact of such properties on a City’s fire services assessable cost calculations.

It is important that the City take steps to set up a reasonable contingency within its general budget to fund the cost incurred in providing fire services to governmentally owned, non-assessable properties.

Table 17 summarizes the estimated Fiscal Year 2010-11 impact of exempting governmental property.

Table 17
Estimated Annual Impact of Exemptions (Five-Year Average Assessable Budget)

Hazard Class	Estimated Government Buy-Down
Hazard Class 3 & 4	\$129,124.95
Hazard Class 5	\$15,291.82
Hazard Class 6	\$195,644.92
Hazard Class 7	\$698,843.59
Total	\$1,038,905.28

Outstanding Issues

BUILDING USE CLASSIFICATIONS

The property information obtained from the Alachua County Property Appraiser's office was incomplete for purposes of developing the fire services assessment methodology. The dwelling units and building square footage information was not available for those buildings designated with "no value." The City completed fieldwork to determine the dwelling units and/or square footage for these buildings. The assessment rates for these buildings are thus based on the City's data and any changes could consequently affect the estimated assessment rates.

UNIVERSITY OF FLORIDA

GSG utilized best available data to identify and classify the University of Florida property. This property information as obtained from the Alachua County Property Appraiser's office was incomplete for purposes of developing the fire services assessment methodology. The dwelling units and building square footage information was not available. The City completed fieldwork to determine the dwelling units and/or square footage for these buildings. As a result of these assumptions, incomplete or incorrect building information could consequently affect the estimated assessment rates.

EXEMPTION OF GOVERNMENTAL PARCELS

The aggregate cost for fire services provided to schools and governmental properties (municipalities, county, state, federal and any sovereign state or nation) was also estimated as part of the Institutional and Educational Property Use Categories based on an analysis of each parcel's use. The fair apportionment concepts in the methodology provided within this Assessment Memorandum require an identification of the calls for service to these properties and, therefore, their respective costs.

Current case law provides that state agencies are exempt from special assessments absent a statute specifically authorizing, either explicitly or by necessary implication, special assessments on state property. *City of Gainesville v. State*, 863 so.2d 138 (Fla. 2003). The proportional assessment cost allocated to such state agencies must either be paid by such agencies as fees or funded from other legally available sources because the financial burden of such exemption cannot be apportioned to non-exempt parcels.

HARDSHIP ASSISTANCE PROGRAM

The City has the option of creating a Hardship Assistance Program to assist residential property owners with homesteaded property, who meet the eligibility criteria, with the financial burden created by the imposition of the Fire Services Assessment. The eligibility criteria are typically based upon Federal Government Poverty Level Guidelines established by the United States Department of Health and Human Services, as adjusted for family size, but may also be based upon criteria from an existing hardship assistance program.

MOBILE HOME AND RECREATIONAL VEHICLE PARK VACANCY CREDIT

As a consequence of the transient use and potential extraordinary vacancies within mobile home and recreational vehicle (RV) parks as compared to other residential property and the lack of demand for fire services for unoccupied spaces, it is fair and reasonable to provide for an extraordinary vacancy adjustment procedure for mobile home and RV park properties. Vacant mobile home and RV spaces within a mobile home or RV park will be charged; however, these properties will be eligible for an extraordinary vacancy adjustment for vacant mobile home or RV spaces.

NON-SPECIFIC CALLS

In the fire call analysis, certain fire related calls were classified as non-property specific, because of the location of occurrence in the incident report. These calls represent non-specific incidents that either could not be correlated to a specific parcel or involved auto accidents or other types of incidents along roads and highways. These calls are excluded from the analysis that determines the percentage of calls for service to respective property types and, therefore, are not considered in the determination of the extent of budget required to fund the department. Because the budget is established based on the ability of the department to adequately protect structures, no adjustment has been made to the budget due to non-property specific calls. Further, even if such calls did affect the cost of the department's operations, there are sufficient non-assessment revenues available to offset any impact upon the budget. However, there is a current legal challenge to this treatment of non-specific calls pending. In McConaghey v. City of Pembroke Pines, Case No, CACE 07-023975 (Fla. 17th Cir.), the plaintiff in this case brought a challenge to the City's fire rescue assessment program alleging that the City's use of special assessments to fund 100% of the fire department's budget was invalid on two bases. The plaintiff alleged that the allocation of expenses between fire services and rescue services was arbitrary and that the City is prohibited from allocating the cost of non-specific calls (i.e. fire calls that cannot be tied to a fixed property use) to the fire services budget. This case is still pending before the 17th Circuit Court.

Implementation — Phase II

TAX BILL FISCAL YEAR 2010-11 AND THEREAFTER

The following section describes all of the steps required to implement and collect the fire services assessment on the ad valorem tax bill in Fiscal Year 2010-11 and thereafter. Following this section is a critical events schedule identifying specific dates for all significant remaining events for the City to comply with those expected to be prescribed by the City's home rule ordinance authorizing the imposition of the annual fire services assessments.

To use the tax bill collection process, a local government must follow the strict procedures provided in section 197.3632, Florida Statutes (Uniform Method). A local government must initiate the process almost a year before it intends to begin using the Uniform Method to collect the assessments. The process begins with the passage of a resolution of intent prior to January 1 or, if the property appraiser, tax collector, and local government agree, March 1. The adoption of a resolution of intent does not obligate the local government to use the method or to impose a special assessment, but it is a prerequisite to using the Uniform Method.

The City must publish notice of its intent to consider a resolution to use the Uniform Method weekly for four consecutive weeks prior to a public hearing on the matter. If the resolution is adopted, the City must send a copy of it to the property appraiser, the tax collector, and the Florida Department of Revenue by January 10 or, if the property appraiser, tax collector, and local government agree, March 10. The City complied with this requirement by adopting a resolution of intent and timely notifying the Alachua County Property Appraiser, the Alachua County Tax Collector and the Florida Department of Revenue.

Under section 197.3632, Florida Statutes, property appraisers must annually provide certain information to local governments by June 1 to assist the local government in the preparation of special assessment rolls to be collected under the Uniform Method.

Pursuant to the Home Rule Ordinance, an initial assessment resolution to be adopted by the City will be required. Such initial assessment resolution should, among other things, briefly describe the Fire Services Assessment Program, the method of apportionment, set a public hearing date for final consideration, and direct and authorize the mailed and published notifications to those property owners included on an initial assessment roll.

Upon adoption of the initial assessment resolution, the City will have made the tentative decision to move forward with the imposition of special assessments to fund the fire services assessable cost calculations. After adopting the necessary implementing documentation, the City must develop a computerized, non-ad valorem assessment roll that contains the basis and rate of the assessment and electronically applies it to each building subject to the assessment. The non-ad valorem assessment roll must utilize the parcel identification number and property use code classifications maintained by the property appraiser and be compatible with the ad valorem tax roll.

Statutory requirements to use the tax bill collection method provide that a service assessment roll must be adopted at a public hearing between January 1 and September 15 so the tax collector can merge it with the ad valorem tax roll and mail a single bill for the combined collection of assessments and ad valorem taxes. At least 20 days prior to the public hearing, the City must publish a notice of the hearing in a newspaper of general circulation within the government's boundaries and by individual first class United States mail to the owners of property subject to the assessment. The mailed notice can either be a separate notice or the City may have the option to use the Truth-In-Millage (TRIM) notice to notify property owners of their respective fire services assessment amount. The use of TRIM is dependent

upon the agreement of the property appraiser. Should the City obtain the permission of the Alachua County Property Appraiser, notification of the assessment amounts for Fiscal Year 2010-11 may be accomplished using the TRIM notice. If the City expects to employ the use of the TRIM notice, it is imperative to begin coordinating with the property appraiser early in the calendar year.

At the public hearing, the City will adopt a final assessment resolution, which, among other things, will confirm the initial assessment resolution, articulate the rate of assessments, approve the assessment roll, and direct and authorize the method of collection.

Once the final assessment resolution is adopted and the roll certified on September 15 to the Alachua County Tax Collector to be collected along with ad valorem taxes, any minor modifications, corrections or errors must be made in accordance with the procedure applicable to the correction of errors on the tax roll, upon written direction from the City to the Alachua County Tax Collector.

Collection of the special assessments and ad valorem taxes begins in November. Failure to pay the assessments and taxes result in the issuance of a tax certificate and may result in the sale of a tax deed.

IMPLEMENTATION SCHEDULE

Outlined in Table 18 is a critical events schedule identifying general timeframes for all significant remaining events for the City to implement the fire services assessment program and collect the assessments using the tax bill collection method for Fiscal Year 2010-11.

Table 18
Critical Events Schedule

Event	Date
GSG provides Final Assessment Report to City	May 27, 2010
City adopts Initial Assessment Resolution	June 3, 2010
City publishes Public Hearing to Adopt Final Assessment Resolution	By June 24, 2010
GSG mails Notices to Affected Property Owners	By June 24, 2010
Public Hearing to adopt Final Assessment Resolution	July 15, 2010
GSG certifies Assessment Roll to County Tax Collector	By September 15, 2010

Appendix A

SITUATION FOUND CODES AND DESCRIPTIONS

Code	Description	Call Type
100	Fire, Other	Non-EMS
111	Building Fire	Non-EMS
113	Cooking fire, confined to a container	Non-EMS
116	Fuel burner/boiler malfunction, fire confined	Non-EMS
118	Trash or rubbish fire, contained	Non-EMS
120	Fire in mobile property used as a fixed structure, other	Non-EMS
121	Fire in mobile home used as a fixed residence	Non-EMS
130	Mobile property (vehicle) fire, other	Non-EMS
131	Passenger vehicle fire	Non-EMS
133	Rail vehicle fire	Non-EMS
138	Off Road vehicle or heavy equipment fire	Non-EMS
140	Natural vegetation fire	Non-EMS
141	Forest, woods or wildland fire	Non-EMS
142	Brush, or brush and grass mixture fire	Non-EMS
143	Grass fire	Non-EMS
150	Outside rubbish fire, other	Non-EMS
151	Outside rubbish, trash or waste fire	Non-EMS
152	Garbage dump or sanitary landfill fire	Non-EMS
153	Construction or demolition landfill fire	Non-EMS
154	Dumpster or other outside trash receptacle fire	Non-EMS
160	Special outside fire, other	Non-EMS
161	Outside storage fire	Non-EMS
162	Outside equipment fire	Non-EMS
163	Outside gas or vapor combustion explosion	Non-EMS
300	Rescue, EMS call, other	EMS
311	Medical assist, assist EMS crew	EMS
321	EMS call, excluding vehicle accident with injury	EMS
322	Vehicle accident with injuries	EMS
324	Motor Vehicle Accident, No Injuries	EMS
331	Lock-in (if lock out, use 511)	Non-EMS
340	Search, other	Non-EMS
350	Extrication, rescue, other	Non-EMS
351	Extrication of victim(s) from building/structure	Non-EMS
352	Extrication of victim(s) from vehicle	Non-EMS
353	Removal of victim(s) from stalled elevator	Non-EMS
355	Confined space rescue	Non-EMS
357	Extrication of victim(s) from machinery	Non-EMS
371	Electrocution or potential electrocution	EMS
400	Hazardous condition, other	Non-EMS
410	Flammable gas or liquid condition, other	Non-EMS
411	Gasoline or other flammable liquid spill	Non-EMS
412	Gas leak	Non-EMS
413	Oil or other combustible liquid spill	Non-EMS
421	Chemical hazard (no spill or leak)	Non-EMS
422	Chemical spill or leak	Non-EMS

Code	Description	Call Type
423	Refrigeration leak	Non-EMS
424	Carbon monoxide incident	Non-EMS
431	Radiation leak, radioactive material	Non-EMS
440	Electrical wiring/equipment problem, other	Non-EMS
441	Heat from short circuit (wiring), defective/worn	Non-EMS
442	Overheated motor	Non-EMS
443	Light ballast breakdown	Non-EMS
444	Power line down	Non-EMS
445	Arcing, shorted electrical equipment	Non-EMS
451	Police Assist	Non-EMS
460	Accident, potential accident, other	Non-EMS
461	Building or structure weakened or collapsed	Non-EMS
462	Aircraft standby	Non-EMS
463	Vehicle accident, general cleanup	Non-EMS
481	Attempt to burn	Non-EMS
500	Service call, other	Non-EMS
510	Person in distress, other	Non-EMS
511	Lock-out	Non-EMS
520	Water problem, other	Non-EMS
521	Water evacuation	Non-EMS
522	Water or steam leak	Non-EMS
531	Smoke or odor removal	Non-EMS
542	Animal rescue	Non-EMS
550	Public service assistance, other	Non-EMS
551	Assist police or other governmental agency	Non-EMS
552	Police matter	Non-EMS
553	Public service	Non-EMS
554	Assist invalid	Non-EMS
555	Defective elevator	Non-EMS
561	Unauthorized burning	Non-EMS
600	Good intent call, other	Non-EMS
611	Dispatched & canceled en route	Non-EMS
6112	EMS Dispatched & canceled in route	EMS
621	Wrong location	Non-EMS
622	No incident found upon arrival	Non-EMS
631	Authorized controlled burning	Non-EMS
632	Prescribed fire	Non-EMS
650	Steam, other gas mistaken for smoke, other	Non-EMS
651	Smoke scare, odor of smoke	Non-EMS
652	Steam, vapor, fog or dust thought to be smoke	Non-EMS
653	Barbecue, tar kettle	Non-EMS
671	Hazmat release investigation w/no hazmat	Non-EMS
672	Biological hazard investigation, none found	Non-EMS
700	False alarm or false call, other	Non-EMS
710	Malicious, mischievous false call, other	Non-EMS

Code	Description	Call Type
711	Municipal alarm system, malicious false alarm	Non-EMS
712	Direct tie to FD, malicious/false alarm	Non-EMS
714	Central station, malicious false alarm	Non-EMS
715	Local alarm system, malicious false alarm	Non-EMS
730	System malfunction	Non-EMS
731	Sprinkler activation due to malfunction	Non-EMS
732	Extinguishing system activation due to malfunction	Non-EMS
733	Smoke detector activation due to malfunction	Non-EMS
734	Heat detector activation due to malfunction	Non-EMS
735	Alarm system sounded due to malfunction	Non-EMS
736	CO detector activation due to malfunction	Non-EMS
740	Unintentional transmission of alarm, other	Non-EMS
741	Sprinkler activation, no fire - unintentional	Non-EMS
742	Extinguishing system activation	Non-EMS
743	Smoke detector activation, no fire - unintentional	Non-EMS
744	Detector activation, no fire - unintentional	Non-EMS
745	Alarm system sounded, no fire - unintentional	Non-EMS
746	Carbon monoxide detector activation, no CO	Non-EMS
751	ALARM-Biological hazard, malicious false report	Non-EMS
814	Lightning strike (no fire)	Non-EMS
900	Special type of incident, other, Dumpster fire	Non-EMS
911	Citizen complaint	Non-EMS

Appendix B

FIXED PROPERTY USE CODES AND USE DESCRIPTIONS

Code	Description	Hazard Class Assignment
110	FIXED USE RECREATION, OTHER	HAZARD CLASS 5
111	BOWLING ESTABLISHMENT	HAZARD CLASS 5
112	BILLIARD CENTER	HAZARD CLASS 5
115	ROLLER RINK	HAZARD CLASS 5
116	SWIMMING FACILITY	HAZARD CLASS 5
122	EXHIBITION HALL	HAZARD CLASS 4
123	ARENA/STADIUM	HAZARD CLASS 7
124	PLAYGROUND	HAZARD CLASS 7
129	AMUSEMENT CENTER INDOOR/OUTDOOR	HAZARD CLASS 5
131	CHURCH/CHAPEL	HAZARD CLASS 6
134	FUNERAL PARLOR/CHAPEL	HAZARD CLASS 6
140	CLUBS, OTHER	HAZARD CLASS 7
141	ATHLETIC CLUB/YMCA	HAZARD CLASS 7
142	CLUB HOUSE	HAZARD CLASS 7
150	PUBLIC, GOVT, OTHER	HAZARD CLASS 6
151	LIBRARY	HAZARD CLASS 7
155	COURT ROOM	HAZARD CLASS 6
160	EATING/DRINKING PLACES	HAZARD CLASS 5
161	RESTAURANT	HAZARD CLASS 5
162	NIGHTCLUB	HAZARD CLASS 5
170	TERMINALS OTHER	HAZARD CLASS 4
171	AIRPORT TERMINAL	HAZARD CLASS 4
173	BUS TERMINAL	HAZARD CLASS 4
180	THEATER, STUDIO OTHER	HAZARD CLASS 7
181	PERFORMANCE THEATER	HAZARD CLASS 4
182	AUDITORIUM, CONCERT HALL	HAZARD CLASS 4
183	MOVIE THEATER	HAZARD CLASS 4
185	RADIO, TV STUDIO	HAZARD CLASS 6
200	EDUCATIONAL PROPERTY OTHER	HAZARD CLASS 7
210	SCHOOLS NON-ADULT OTHER	HAZARD CLASS 7
211	PRE-SCHOOL	HAZARD CLASS 7
213	ELEMENTARY SCHOOL	HAZARD CLASS 7
215	HIGH SCHOOL/JR HIGH/MIDDLE SCHOOL	HAZARD CLASS 7
241	COLLEGE/UNIVERSITY	HAZARD CLASS 7
254	DAY CARE-IN COMMERCIAL PROPERTY	HAZARD CLASS 7
255	DAY CARE-IN RESIDENCE-LICENSED	HAZARD CLASS 7
300	HEALTHCARE/DETENTION OTHER	HAZARD CLASS 7
311	CARE OF THE AGED/NURSING STAFF	HAZARD CLASS 7
321	MENTAL RETARDATION/DEVELOPMENT DISABILITY FACILITY	HAZARD CLASS 7
322	ALCOHOL/SUBSTANCE ABUSE RECOVERY CENTER	HAZARD CLASS 7
323	ASYLUM/MENTAL INSTITUTION	HAZARD CLASS 7
331	HOSPITAL-MEDICAL/PSYCHIATRIC	HAZARD CLASS 7
340	CLINICS, OTHER	HAZARD CLASS 6
341	CLINIC, CLINIC-TYPE INFIRMARY	HAZARD CLASS 6
342	DOCTOR/DENTIST/SURGEONS OFFICE	HAZARD CLASS 6

Code	Description	Hazard Class Assignment
361	JAIL/PRISON - NOT JUVENILE	HAZARD CLASS 7
365	POLICE STATION	HAZARD CLASS 7
400	RESIDENTIAL OTHER	HAZARD CLASS 7
419	ONE- AND TWO-FAMILY DWELLING	HAZARD CLASS 7
429	MULTI-FAMILY DWELLINGS	HAZARD CLASS 7
439	ROOMING, BOARDING, RESIDENTIAL HOTELS	HAZARD CLASS 7
449	HOTELS, MOTELS, INNS, LODGES	HAZARD CLASS 7
459	RESIDENTIAL BOARD AND CARE	HAZARD CLASS 7
460	DORMITORIES OTHER	HAZARD CLASS 7
462	FRATERNITY, SORORITY HOUSE	HAZARD CLASS 7
464	MILITARY BARRACKS/DORMITORY	HAZARD CLASS 7
500	MERCANTILE PROPERTIES OTHER	HAZARD CLASS 4
511	CONVENIENCE STORE	HAZARD CLASS 6
519	FOOD, BEVERAGE SALES, GROCERY STORE	HAZARD CLASS 4
529	TEXTILE, WEARING APPAREL SALES	HAZARD CLASS 4
539	HOUSEHOLD GOODS SALES, REPAIRS	HAZARD CLASS 4
549	SPECIALTY SHOPS	HAZARD CLASS 4
557	BARBER, BEAUTY SHOP, PERSONAL SERVICES	HAZARD CLASS 4
559	RECREATIONAL, HOBBY,HOME SALES, PET STORE	HAZARD CLASS 4
564	SELF-SERVICE LAUNDRY/DRY CLEANING	HAZARD CLASS 4
569	PROFESSIONAL SUPPLIES	HAZARD CLASS 4
571	SERVICE STATION	HAZARD CLASS 6
579	MOTOR VEHICLE, BOAT SALES/SERVICE/REPAIRS	HAZARD CLASS 4
580	GENERAL ITEM STORES, OTHER	HAZARD CLASS 4
581	DEPARTMENT STORE	HAZARD CLASS 4
592	BANK W/FIRST STORY BANKING FACILITY	HAZARD CLASS 7
593	MEDICAL, RESEARCH, SCIENTIFIC OFFICE	HAZARD CLASS 6
596	POST OFFICE OR MAILING FORMS	HAZARD CLASS 6
599	BUSINESS OFFICES	HAZARD CLASS 7
610	ENERGY PRODUCTION, OTHER	HAZARD CLASS 6
615	ELECTRIC GENERATING PLANT	HAZARD CLASS 6
629	LABORATORIES	HAZARD CLASS 6
631	NATIONAL DEFENSE SITE/MILITARY SITE	HAZARD CLASS 6
635	COMPUTER, DATA PROCESSING CNTR	HAZARD CLASS 7
639	COMMUNICATIONS CENTER	HAZARD CLASS 6
640	UTILITY, ENERGY DISTRIBUTION CNTR OTHER	HAZARD CLASS 6
642	ELECTRIC TRANSMISSION DISTIB. SYSTEM	HAZARD CLASS 6
644	GAS DISTRIBUTION SYSTEM, PIPELINE	HAZARD CLASS 6
647	WATER UTILITY	HAZARD CLASS 6
648	SANITARY SERVICE	HAZARD CLASS 6
655	CROPS, ORCHARDS	NOT USED
669	FOREST, TIMBERLAND	NOT USED
679	MINING, QUARRYING/NATURAL RAW MATERIALS	HAZARD CLASS 3
700	MANUFACTURING PROPERTY, PROCESSING	HAZARD CLASS 5
800	STORAGE PROPERTY OTHER	HAZARD CLASS 4

Code	Description	Hazard Class Assignment
807	OUTSIDE MATERIAL STORAGE AREA	NOT USED
808	SHED	NOT USED
849	OUTSIDE STORAGE TANK	NOT USED
880	VEHICLE STORAGE; OTHER	HAZARD CLASS 6
881	RESIDENTIAL PARKING STORAGE	HAZARD CLASS 6
882	GENERAL VEHICLE PARKING GARAGE	HAZARD CLASS 6
888	FIRE STATIONS	HAZARD CLASS 7
891	GENERAL WAREHOUSE	HAZARD CLASS 4
900	OUTSIDE, SPECIAL PROPERTIES; OTHER	NOT USED
919	DUMP SANITARY LANDFILL	NOT USED
931	OPEN LAND, FIELD	NOT USED
935	CAMPSITE WITH UTILITIES	NOT USED
936	VACANT LOT	NOT USED
938	GRADED AND CARED FOR PLOTS OF LAND	NOT USED
960	STREET, OTHER	NOT USED
961	DIVIDED HIGHWAY, HIGHWAY	NOT USED
962	PAVED PUBLIC STREET, RESIDENTIAL	NOT USED
963	PAVED PRIVATE STREET, COMMERCIAL	NOT USED
965	UNCOVERED PARKING AREA	NOT USED
972	AIRCRAFT RUNWAY	HAZARD CLASS 4
974	AIRCRAFT LOADING AREA	HAZARD CLASS 4
981	CONSTRUCTION SITE	NOT USED
983	PIPELINE, POWER LINE RIGHT OF WAY	NOT USED
984	INDUSTRIAL PLANT YARD	HAZARD CLASS 6
NNN	NONE	NOT USED
UUU	UNDETERMINED	NOT USED

Appendix C

ALACHUA COUNTY BUILDING IMPROVEMENT CODES

Code	Description	Hazard Class Assignment	Institutional Classification
0100	SINGLE FAMILY	HAZARD CLASS 7	NO
0109	SFR NON SOH	HAZARD CLASS 7	NO
0200	SFR - MFG	HAZARD CLASS 7	NO
0209	SFR - MFG	HAZARD CLASS 7	NO
0300	SFR - ZERO LOT	HAZARD CLASS 7	NO
0309	SFR - ZERO LOT	HAZARD CLASS 7	NO
0400	CONDO	HAZARD CLASS 7	NO
0500	NO VALUE	NOT USED	NO
0600	RENTAL UNIT	HAZARD CLASS 7	NO
0609	RENTAL UNIT	HAZARD CLASS 7	NO
0700	MH PRE 1977	HAZARD CLASS 7	NO
0709	MH PRE 1977	HAZARD CLASS 7	NO
0800	MH POST 1977	HAZARD CLASS 7	NO
0809	MH POST 1977	HAZARD CLASS 7	NO
0900	EXC RESIDENTIAL	HAZARD CLASS 7	NO
0909	EXC RESIDENTIAL	HAZARD CLASS 7	NO
1000	CONDO LOW RISE	HAZARD CLASS 7	NO
1009	CONDO LOW RISE	HAZARD CLASS 7	NO
1100	CONDO/APT	HAZARD CLASS 7	NO
1109	CONDO/APT	HAZARD CLASS 7	NO
1200	CONDO TOWNHOUSE	HAZARD CLASS 7	NO
1209	CONDO TOWNHOUSE	HAZARD CLASS 7	NO
1300	CONDOMINIUM	HAZARD CLASS 7	NO
1309	CONDOMINIUM	HAZARD CLASS 7	NO
1400	COOP LOW RISE	HAZARD CLASS 7	NO
1409	COOP LOW RISE	HAZARD CLASS 7	NO
1500	COOP HIGH RISE	HAZARD CLASS 7	NO
1600	COOP TOWN HOUSE	HAZARD CLASS 7	NO
1700	DORMITORY	HAZARD CLASS 7	YES
1800	INTERV LO RISE	HAZARD CLASS 7	NO
1900	INTERV HI RISE	HAZARD CLASS 7	NO
2000	INTERV TOWNHOUS	HAZARD CLASS 7	NO
2200	MFR LOW RISE	HAZARD CLASS 7	NO
2209	MFR LOW RISE	HAZARD CLASS 7	NO
2300	MFR HI RISE	HAZARD CLASS 7	NO
2309	MFR HI RISE	HAZARD CLASS 7	NO
2400	MFR TOWNHOUSE	HAZARD CLASS 7	NO
2409	MFR TOWNHOUSE	HAZARD CLASS 7	NO
2500	MFR ROW	HAZARD CLASS 7	NO
2509	MFR ROW	HAZARD CLASS 7	NO
2600	APARTMENT	HAZARD CLASS 7	NO
2609	APARTMENT	HAZARD CLASS 7	NO
2700	DUPLEX	HAZARD CLASS 7	NO
2709	DUPLEX	HAZARD CLASS 7	NO

Code	Description	Hazard Class Assignment	Institutional Classification
2800	TRI/QUADRAPLEX	HAZARD CLASS 7	NO
2809	TRI/QUADRAPLEX	HAZARD CLASS 7	NO
2900	EXCEP DWELLING	HAZARD CLASS 7	NO
2909	EXCEP DWELLING	HAZARD CLASS 7	NO
3500	STORE RETAIL	HAZARD CLASS 4	NO
3600	STORE DISCOUNT	HAZARD CLASS 4	NO
3700	STORE DEPT	HAZARD CLASS 4	NO
3800	SH CTR NBRHD	HAZARD CLASS 4	NO
3900	SH CTR COMMITY	HAZARD CLASS 4	NO
4000	SH CTR REGIONAL	HAZARD CLASS 4	NO
4100	SH CTR SUPREGNL	HAZARD CLASS 4	NO
4200	SUPERMARKET	HAZARD CLASS 4	NO
4300	SUPMKT NBRHD/CV	HAZARD CLASS 4	NO
4400	HTL/MTL FULL SER	HAZARD CLASS 7	NO
4500	MOTEL/COURT	HAZARD CLASS 7	NO
4600	MOTEL LOW RISE	HAZARD CLASS 7	NO
4700	MOTEL HI RISE	HAZARD CLASS 7	NO
4900	OFFICE LOW RISE	HAZARD CLASS 7	NO
5000	OFFICE HI RISE	HAZARD CLASS 7	NO
5100	OFFICE CONDO	HAZARD CLASS 7	NO
5152	MEDICAL CONDO	HAZARD CLASS 6	NO
5200	MEDICAL OFFICE	HAZARD CLASS 6	NO
5300	HOSPITAL	HAZARD CLASS 7	YES
5400	NURS/CONV HOME	HAZARD CLASS 7	YES
5500	NIGHTCLUB/BAR	HAZARD CLASS 5	NO
5600	RESTAURANT	HAZARD CLASS 5	NO
5700	REST FAST FOOD	HAZARD CLASS 5	NO
5800	BOWLING ALLEY	HAZARD CLASS 5	NO
5900	ARENA	HAZARD CLASS 4	NO
6000	AUDITORIUM	HAZARD CLASS 4	NO
6100	THEATER	HAZARD CLASS 4	NO
6200	BANK	HAZARD CLASS 7	NO
6300	FINANCIAL	HAZARD CLASS 7	NO
6400	SERV STATION	HAZARD CLASS 6	NO
6500	PARKING GARAGE	HAZARD CLASS 6	NO
6600	VEH SLS/REPAIR	HAZARD CLASS 4	NO
6700	SERVICE SHOP	HAZARD CLASS 4	NO
6800	MORTUARY	HAZARD CLASS 6	YES
6900	CLUBHOUSE	HAZARD CLASS 7	YES
6901	CLUBHOUSE (COMMERCIAL)	HAZARD CLASS 7	NO
7000	COLD STRG/PCKG	HAZARD CLASS 5	NO
7100	TRANSPOR TERMNL	HAZARD CLASS 4	NO
7200	DAYCARE	HAZARD CLASS 7	NO
7300	GYMNASIUM	HAZARD CLASS 7	YES

Code	Description	Hazard Class Assignment	Institutional Classification
7400	FIRE STA-STAFFED	HAZARD CLASS 7	YES
7500	FIRE STA-VOL	HAZARD CLASS 7	YES
7600	ASSISTED LIVING	HAZARD CLASS 7	YES
7700	EXCEP OFFICE	NOT USED	NO
7800	EXCEP STORE	NOT USED	NO
7900	EXCEP COMMERC	NOT USED	NO
8000	MFG LIGHT	HAZARD CLASS 5	NO
8100	MFG HEAVY	HAZARD CLASS 4	NO
8200	WRHSE DISTRIB.	HAZARD CLASS 4	NO
8250	WRHSE DISTRIB MEGA	HAZARD CLASS 4	NO
8300	WRHSE MINI	HAZARD CLASS 4	NO
8400	WRHSE STORAGE	HAZARD CLASS 4	NO
8500	AIRCRAFT HANGAR	HAZARD CLASS 4	NO
8600	BARNS	HAZARD CLASS 5	NO
8700	PREFAB METAL	HAZARD CLASS 4	NO
8800	SHED	NOT USED	NO
8900	EXCEP INDUST	NOT USED	NO
9000	SCHOOL	HAZARD CLASS 7	YES
9100	CHURCH	HAZARD CLASS 6	YES
9200	EDU/RELIG MISC	HAZARD CLASS 6	YES
9300	GOVMENTAL BLDG	HAZARD CLASS 6	YES
9301	POST OFFICE	HAZARD CLASS 6	NO
9400	LIBRARY	HAZARD CLASS 5	NO
9500	CONVENTION CTR	HAZARD CLASS 4	NO
MHPK	MOBILE HOME PARK UNITS	HAZARD CLASS 7	NO
RVPK	RV PARK UNITS	HAZARD CLASS 7	NO

Appendix D

FLORIDA DEPARTMENT OF REVENUE PROPERTY USE CODES

Code	DESCRIPTION
0000	VACANT
0100	SINGLE FAMILY
0200	MOBILE HOME
0300	MULTIFAMILY
0400	CONDOMINIUM
0500	COOPERATIVE
0600	RETIREMENT
0700	MISC. RESIDENCE
0800	MFR <10 UNITS
0900	COMMON AREA
1000	VACANT COMM
1100	STORES
1200	STORE/OFF/RES
1300	DEPT STORE
1400	SUPERMARKET
1500	SH CTR REGIONAL
1600	SH CTR CMMITY
1601	SH CTR NBHD
1700	OFFICE 1 STORY
1701	POST OFFICE
1800	OFF MULTISTORY
1900	PROF OFFICES
2000	AIRPORT
2100	RESTAURANT
2200	REST, DRIVE-IN
2300	FINANCIAL
2400	INSURANCE
2500	SERVICE SHOPS
2600	SERV STATIONS
2700	AUTO SALES
2800	PKG LOT (COMM)
2801	MOBILE HOME PARK
2900	WHOLESALE
3000	FLORIST
3100	DRV-IN THEATER
3200	THEATER
3300	NIGHT CLUBS
3400	BOWLING ALLEY
3500	TOURIST ATTRACTION
3600	CAMPS
3700	RACETRACK
3800	GOLF COURSE
3900	MOTEL
4000	VACANT INDUSTRIAL
4100	LIGHT MFG

Code	DESCRIPTION
4200	HEAVY MFG
4300	LUMBER YD/MILL
4400	PACKING
4500	BOTTLER
4600	FOOD PROCESSING
4700	MIN PROCESSING
4800	WAREH/DIST TERM
4900	OPEN STORAGE
5000	IMPROVED AGRI
5100	CROPSOIL CLASS1
5200	CROPSOIL CLASS2
5300	CROPSOIL CLASS3
5400	TMBR SI 90+
5500	TMBR SI 80-89
5600	TMBR SI 70-79
5700	TMBR SI 60-69
5800	TMBR SI 50-59
5900	TMBR NOT CLSSFD
6000	GRZGSOIL CLASS1
6100	GRZGSOIL CLASS2
6200	GRZGSOIL CLASS3
6300	GRZGSOIL CLASS4
6400	GRZGSOIL CLASS5
6500	GRZGSOIL CLASS6
6600	ORCHARD GROVES
6700	POUL/BEES/FISH
6800	DAIRIES/FEEDLTS
6900	ORN/MISC AGRI
7000	VACANT INSTITUTIONAL
7100	CHURCHES
7200	PRV SCHL/COLL
7300	PRV HOSPITAL
7400	NURSING HOME
7500	ORPHNG/NON-PROF
7600	MORT/CEMETERY
7700	CLB/LDG/UN HALL
7800	SANI/ REST HOME
7900	CULTURAL
8000	WATER MGT DIST
8100	MILITARY
8200	FOREST/PK/REC
8300	PUB CTY SCHOOL
8400	COLLEGE
8500	HOSPITAL
8600	CTY INC NONMUNI

Code	DESCRIPTION
8700	STATE
8800	FEDERAL
8900	MUNICIPAL
9000	LEASEHOLD INT
9100	UTILITY
9200	MING/PET/GASLND
9300	SUBSURF RIGHTS
9400	RIGHT-OF-WAY
9500	RIVERS/LAKES
9600	SEWG/WASTE LAND
9700	OUTDR REC/PK LD
9800	CENTRALLY ASSD
9900	ACRG NOT ZND AG
9999	EXEMPT

Appendix E

FIRE PROTECTION UNIT ASSIGNMENT TABLE

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 7 TIER 1	100	1,199	1.0	0.9901
CLASS 7 TIER 2	1,200	1,999	1.5	1.4852
CLASS 7 TIER 3	2,000	3,099	2.0	1.9802
CLASS 7 TIER 4	3,100	4,499	2.5	2.4753
CLASS 7 TIER 5	4,500	6,099	3.0	2.9703
CLASS 7 TIER 6	6,100	7,999	3.5	3.4654
CLASS 7 TIER 7	8,000	9,999	4.0	3.9604
CLASS 7 TIER 8	10,000	12,399	4.5	4.4555
CLASS 7 TIER 9	12,400	14,999	5.0	4.9505
CLASS 7 TIER 10	15,000	17,799	5.5	5.4456
CLASS 7 TIER 11	17,800	20,899	6.0	5.9406
CLASS 7 TIER 12	20,900	24,199	6.5	6.4357
CLASS 7 TIER 13	24,200	27,799	7.0	6.9307
CLASS 7 TIER 14	27,800	31,699	7.5	7.4258
CLASS 7 TIER 15	31,700	35,699	8.0	7.9208
CLASS 7 TIER 16	35,700	39,999	8.5	8.4159
CLASS 7 TIER 17	40,000	44,599	9.0	8.9109
CLASS 7 TIER 18	44,600	49,399	9.5	9.4060
CLASS 7 TIER 19	49,400	54,499	10.0	9.9010
CLASS 7 TIER 20	54,500	59,799	10.5	10.3961
CLASS 7 TIER 21	59,800	65,399	11.0	10.8911
CLASS 7 TIER 22	65,400	71,199	11.5	11.3862
CLASS 7 TIER 23	71,200	77,199	12.0	11.8812
CLASS 7 TIER 24	77,200	83,499	12.5	12.3763
CLASS 7 TIER 25	83,500	89,999	13.0	12.8713
CLASS 7 TIER 26	90,000	96,799	13.5	13.3664
CLASS 7 TIER 27	96,800	103,899	14.0	13.8614
CLASS 7 TIER 28	103,900	111,199	14.5	14.3565
CLASS 7 TIER 29	111,200	118,699	15.0	14.8515
CLASS 7 TIER 30	118,700	126,499	15.5	15.3466
CLASS 7 TIER 31	126,500	134,499	16.0	15.8416
CLASS 7 TIER 32	134,500	142,799	16.5	16.3367
CLASS 7 TIER 33	142,800	151,299	17.0	16.8317
CLASS 7 TIER 34	151,300	159,999	17.5	17.3268
CLASS 7 TIER 35	160,000	169,099	18.0	17.8218
CLASS 7 TIER 36	169,100	178,299	18.5	18.3169
CLASS 7 TIER 37	178,300	187,799	19.0	18.8119
CLASS 7 TIER 38	187,800	197,599	19.5	19.3070
CLASS 7 TIER 39	197,600	207,599	20.0	19.8020
CLASS 7 TIER 40	207,600	217,799	20.5	20.2971
CLASS 7 TIER 41	217,800	228,299	21.0	20.7921
CLASS 7 TIER 42	228,300	239,099	21.5	21.2872
CLASS 7 TIER 43	239,100	249,999	22.0	21.7822
CLASS 7 TIER 44	250,000	261,299	22.5	22.2773

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 7 TIER 45	261,300	272,799	23.0	22.7723
CLASS 7 TIER 46	272,800	284,499	23.5	23.2674
CLASS 7 TIER 47	284,500	296,499	24.0	23.7624
CLASS 7 TIER 48	296,500	308,699	24.5	24.2575
CLASS 7 TIER 49	308,700	321,199	25.0	24.7525
CLASS 7 TIER 50	321,200	333,899	25.5	25.2476
CLASS 7 TIER 51	333,900	346,799	26.0	25.7426
CLASS 7 TIER 52	346,800	359,999	26.5	26.2377
CLASS 7 TIER 53	360,000	373,499	27.0	26.7327
CLASS 7 TIER 54	373,500	387,199	27.5	27.2278
CLASS 7 TIER 55	387,200	401,199	28.0	27.7228
CLASS 7 TIER 56	401,200	415,399	28.5	28.2179
CLASS 7 TIER 57	415,400	429,799	29.0	28.7129
CLASS 7 TIER 58	429,800	444,499	29.5	29.2080
CLASS 7 TIER 59	444,500	459,399	30.0	29.7030
CLASS 7 TIER 60	459,400	474,599	30.5	30.1981
CLASS 7 TIER 61	474,600	489,999	31.0	30.6931
CLASS 7 TIER 62	490,000	505,699	31.5	31.1882
CLASS 7 TIER 63	505,700	521,699	32.0	31.6832
CLASS 7 TIER 64	521,700	537,799	32.5	32.1783
CLASS 7 TIER 65	537,800	554,199	33.0	32.6733
CLASS 7 TIER 66	554,200	570,899	33.5	33.1684
CLASS 7 TIER 67	570,900	587,799	34.0	33.6634
CLASS 7 TIER 68	587,800	604,999	34.5	34.1585
CLASS 7 TIER 69	605,000	622,399	35.0	34.6535
CLASS 7 TIER 70	622,400	639,999	35.5	35.1486
CLASS 7 TIER 71	640,000	657,999	36.0	35.6436
CLASS 7 TIER 72	658,000	676,099	36.5	36.1387
CLASS 7 TIER 73	676,100	694,499	37.0	36.6337
CLASS 7 TIER 74	694,500	713,099	37.5	37.1288
CLASS 7 TIER 75	713,100	731,999	38.0	37.6238
CLASS 7 TIER 76	732,000	751,199	38.5	38.1189
CLASS 7 TIER 77	751,200	770,499	39.0	38.6139
CLASS 7 TIER 78	770,500	790,199	39.5	39.1090
CLASS 7 TIER 79	790,200	999,999,999	40.0	39.6040
CLASS 6 TIER 1	100	899	1.0	1.6011
CLASS 6 TIER 2	900	1,599	1.5	2.4017
CLASS 6 TIER 3	1,600	2,499	2.0	3.2022
CLASS 6 TIER 4	2,500	3,499	2.5	4.0028
CLASS 6 TIER 5	3,500	4,799	3.0	4.8033
CLASS 6 TIER 6	4,800	6,199	3.5	5.6039
CLASS 6 TIER 7	6,200	7,799	4.0	6.4044
CLASS 6 TIER 8	7,800	9,699	4.5	7.2050
CLASS 6 TIER 9	9,700	11,699	5.0	8.0055

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 6 TIER 10	11,700	13,899	5.5	8.8061
CLASS 6 TIER 11	13,900	16,299	6.0	9.6066
CLASS 6 TIER 12	16,300	18,899	6.5	10.4072
CLASS 6 TIER 13	18,900	21,699	7.0	11.2077
CLASS 6 TIER 14	21,700	24,699	7.5	12.0083
CLASS 6 TIER 15	24,700	27,799	8.0	12.8088
CLASS 6 TIER 16	27,800	31,199	8.5	13.6094
CLASS 6 TIER 17	31,200	34,699	9.0	14.4099
CLASS 6 TIER 18	34,700	38,499	9.5	15.2105
CLASS 6 TIER 19	38,500	42,399	10.0	16.0110
CLASS 6 TIER 20	42,400	46,599	10.5	16.8116
CLASS 6 TIER 21	46,600	50,899	11.0	17.6121
CLASS 6 TIER 22	50,900	55,399	11.5	18.4127
CLASS 6 TIER 23	55,400	60,099	12.0	19.2132
CLASS 6 TIER 24	60,100	64,999	12.5	20.0138
CLASS 6 TIER 25	65,000	70,099	13.0	20.8143
CLASS 6 TIER 26	70,100	75,399	13.5	21.6149
CLASS 6 TIER 27	75,400	80,899	14.0	22.4154
CLASS 6 TIER 28	80,900	86,599	14.5	23.2160
CLASS 6 TIER 29	86,600	92,399	15.0	24.0165
CLASS 6 TIER 30	92,400	98,499	15.5	24.8171
CLASS 6 TIER 31	98,500	104,699	16.0	25.6176
CLASS 6 TIER 32	104,700	111,199	16.5	26.4182
CLASS 6 TIER 33	111,200	117,799	17.0	27.2187
CLASS 6 TIER 34	117,800	124,599	17.5	28.0193
CLASS 6 TIER 35	124,600	131,599	18.0	28.8198
CLASS 6 TIER 36	131,600	138,799	18.5	29.6204
CLASS 6 TIER 37	138,800	146,199	19.0	30.4209
CLASS 6 TIER 38	146,200	153,799	19.5	31.2215
CLASS 6 TIER 39	153,800	161,599	20.0	32.0220
CLASS 6 TIER 40	161,600	169,599	20.5	32.8226
CLASS 6 TIER 41	169,600	177,799	21.0	33.6231
CLASS 6 TIER 42	177,800	186,099	21.5	34.4237
CLASS 6 TIER 43	186,100	194,699	22.0	35.2242
CLASS 6 TIER 44	194,700	203,399	22.5	36.0248
CLASS 6 TIER 45	203,400	212,399	23.0	36.8253
CLASS 6 TIER 46	212,400	221,499	23.5	37.6259
CLASS 6 TIER 47	221,500	230,799	24.0	38.4264
CLASS 6 TIER 48	230,800	240,299	24.5	39.2270
CLASS 6 TIER 49	240,300	249,999	25.0	40.0275
CLASS 6 TIER 50	250,000	259,899	25.5	40.8281
CLASS 6 TIER 51	259,900	269,999	26.0	41.6286
CLASS 6 TIER 52	270,000	280,299	26.5	42.4292
CLASS 6 TIER 53	280,300	290,799	27.0	43.2297

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 6 TIER 54	290,800	301,499	27.5	44.0303
CLASS 6 TIER 55	301,500	312,299	28.0	44.8308
CLASS 6 TIER 56	312,300	323,399	28.5	45.6314
CLASS 6 TIER 57	323,400	334,599	29.0	46.4319
CLASS 6 TIER 58	334,600	346,099	29.5	47.2325
CLASS 6 TIER 59	346,100	357,699	30.0	48.0330
CLASS 6 TIER 60	357,700	369,499	30.5	48.8336
CLASS 6 TIER 61	369,500	381,499	31.0	49.6341
CLASS 6 TIER 62	381,500	393,699	31.5	50.4347
CLASS 6 TIER 63	393,700	406,099	32.0	51.2352
CLASS 6 TIER 64	406,100	418,699	32.5	52.0358
CLASS 6 TIER 65	418,700	431,499	33.0	52.8363
CLASS 6 TIER 66	431,500	444,499	33.5	53.6369
CLASS 6 TIER 67	444,500	457,699	34.0	54.4374
CLASS 6 TIER 68	457,700	470,999	34.5	55.2380
CLASS 6 TIER 69	471,000	484,599	35.0	56.0385
CLASS 6 TIER 70	484,600	498,299	35.5	56.8391
CLASS 6 TIER 71	498,300	512,299	36.0	57.6396
CLASS 6 TIER 72	512,300	526,399	36.5	58.4402
CLASS 6 TIER 73	526,400	540,699	37.0	59.2407
CLASS 6 TIER 74	540,700	555,199	37.5	60.0413
CLASS 6 TIER 75	555,200	569,899	38.0	60.8418
CLASS 6 TIER 76	569,900	584,799	38.5	61.6424
CLASS 6 TIER 77	584,800	599,899	39.0	62.4429
CLASS 6 TIER 78	599,900	615,199	39.5	63.2435
CLASS 6 TIER 79	615,200	999,999,999	40.0	64.0440
CLASS 5 TIER 1	100	699	1.0	1.4375
CLASS 5 TIER 2	700	1,199	1.5	2.1563
CLASS 5 TIER 3	1,200	1,799	2.0	2.8750
CLASS 5 TIER 4	1,800	2,499	2.5	3.5938
CLASS 5 TIER 5	2,500	3,499	3.0	4.3125
CLASS 5 TIER 6	3,500	4,499	3.5	5.0313
CLASS 5 TIER 7	4,500	5,699	4.0	5.7500
CLASS 5 TIER 8	5,700	6,999	4.5	6.4688
CLASS 5 TIER 9	7,000	8,499	5.0	7.1875
CLASS 5 TIER 10	8,500	9,999	5.5	7.9063
CLASS 5 TIER 11	10,000	11,799	6.0	8.6250
CLASS 5 TIER 12	11,800	13,699	6.5	9.3438
CLASS 5 TIER 13	13,700	15,699	7.0	10.0625
CLASS 5 TIER 14	15,700	17,799	7.5	10.7813
CLASS 5 TIER 15	17,800	20,099	8.0	11.5000
CLASS 5 TIER 16	20,100	22,499	8.5	12.2188
CLASS 5 TIER 17	22,500	25,099	9.0	12.9375
CLASS 5 TIER 18	25,100	27,799	9.5	13.6563

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 5 TIER 19	27,800	30,699	10.0	14.3750
CLASS 5 TIER 20	30,700	33,699	10.5	15.0938
CLASS 5 TIER 21	33,700	36,799	11.0	15.8125
CLASS 5 TIER 22	36,800	39,999	11.5	16.5313
CLASS 5 TIER 23	40,000	43,499	12.0	17.2500
CLASS 5 TIER 24	43,500	46,999	12.5	17.9688
CLASS 5 TIER 25	47,000	50,699	13.0	18.6875
CLASS 5 TIER 26	50,700	54,499	13.5	19.4063
CLASS 5 TIER 27	54,500	58,499	14.0	20.1250
CLASS 5 TIER 28	58,500	62,499	14.5	20.8438
CLASS 5 TIER 29	62,500	66,799	15.0	21.5625
CLASS 5 TIER 30	66,800	71,199	15.5	22.2813
CLASS 5 TIER 31	71,200	75,699	16.0	23.0000
CLASS 5 TIER 32	75,700	80,299	16.5	23.7188
CLASS 5 TIER 33	80,300	85,099	17.0	24.4375
CLASS 5 TIER 34	85,100	89,999	17.5	25.1563
CLASS 5 TIER 35	90,000	95,099	18.0	25.8750
CLASS 5 TIER 36	95,100	100,299	18.5	26.5938
CLASS 5 TIER 37	100,300	105,699	19.0	27.3125
CLASS 5 TIER 38	105,700	111,199	19.5	28.0313
CLASS 5 TIER 39	111,200	116,799	20.0	28.7500
CLASS 5 TIER 40	116,800	122,499	20.5	29.4688
CLASS 5 TIER 41	122,500	128,499	21.0	30.1875
CLASS 5 TIER 42	128,500	134,499	21.5	30.9063
CLASS 5 TIER 43	134,500	140,699	22.0	31.6250
CLASS 5 TIER 44	140,700	146,999	22.5	32.3438
CLASS 5 TIER 45	147,000	153,499	23.0	33.0625
CLASS 5 TIER 46	153,500	159,999	23.5	33.7813
CLASS 5 TIER 47	160,000	166,799	24.0	34.5000
CLASS 5 TIER 48	166,800	173,699	24.5	35.2188
CLASS 5 TIER 49	173,700	180,699	25.0	35.9375
CLASS 5 TIER 50	180,700	187,799	25.5	36.6563
CLASS 5 TIER 51	187,800	195,099	26.0	37.3750
CLASS 5 TIER 52	195,100	202,499	26.5	38.0938
CLASS 5 TIER 53	202,500	210,099	27.0	38.8125
CLASS 5 TIER 54	210,100	217,799	27.5	39.5313
CLASS 5 TIER 55	217,800	225,699	28.0	40.2500
CLASS 5 TIER 56	225,700	233,699	28.5	40.9688
CLASS 5 TIER 57	233,700	241,799	29.0	41.6875
CLASS 5 TIER 58	241,800	249,999	29.5	42.4063
CLASS 5 TIER 59	250,000	258,499	30.0	43.1250
CLASS 5 TIER 60	258,500	266,999	30.5	43.8438
CLASS 5 TIER 61	267,000	275,699	31.0	44.5625
CLASS 5 TIER 62	275,700	284,499	31.5	45.2813

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 5 TIER 63	284,500	293,499	32.0	46.0000
CLASS 5 TIER 64	293,500	302,499	32.5	46.7188
CLASS 5 TIER 65	302,500	311,799	33.0	47.4375
CLASS 5 TIER 66	311,800	321,199	33.5	48.1563
CLASS 5 TIER 67	321,200	330,699	34.0	48.8750
CLASS 5 TIER 68	330,700	340,299	34.5	49.5938
CLASS 5 TIER 69	340,300	350,099	35.0	50.3125
CLASS 5 TIER 70	350,100	359,999	35.5	51.0313
CLASS 5 TIER 71	360,000	370,099	36.0	51.7500
CLASS 5 TIER 72	370,100	380,299	36.5	52.4688
CLASS 5 TIER 73	380,300	390,699	37.0	53.1875
CLASS 5 TIER 74	390,700	401,199	37.5	53.9063
CLASS 5 TIER 75	401,200	411,799	38.0	54.6250
CLASS 5 TIER 76	411,800	422,499	38.5	55.3438
CLASS 5 TIER 77	422,500	433,499	39.0	56.0625
CLASS 5 TIER 78	433,500	444,499	39.5	56.7813
CLASS 5 TIER 79	444,500	999,999,999	40.0	57.5000
CLASS 4 TIER 1	100	499	1.0	0.8792
CLASS 4 TIER 2	500	899	1.5	1.3188
CLASS 4 TIER 3	900	1,399	2.0	1.7584
CLASS 4 TIER 4	1,400	1,899	2.5	2.1980
CLASS 4 TIER 5	1,900	2,599	3.0	2.6376
CLASS 4 TIER 6	2,600	3,399	3.5	3.0772
CLASS 4 TIER 7	3,400	4,299	4.0	3.5168
CLASS 4 TIER 8	4,300	5,299	4.5	3.9564
CLASS 4 TIER 9	5,300	6,399	5.0	4.3960
CLASS 4 TIER 10	6,400	7,599	5.5	4.8356
CLASS 4 TIER 11	7,600	8,899	6.0	5.2752
CLASS 4 TIER 12	8,900	10,299	6.5	5.7148
CLASS 4 TIER 13	10,300	11,899	7.0	6.1544
CLASS 4 TIER 14	11,900	13,499	7.5	6.5940
CLASS 4 TIER 15	13,500	15,199	8.0	7.0336
CLASS 4 TIER 16	15,200	17,099	8.5	7.4732
CLASS 4 TIER 17	17,100	18,999	9.0	7.9128
CLASS 4 TIER 18	19,000	21,099	9.5	8.3524
CLASS 4 TIER 19	21,100	23,199	10.0	8.7920
CLASS 4 TIER 20	23,200	25,499	10.5	9.2316
CLASS 4 TIER 21	25,500	27,799	11.0	9.6712
CLASS 4 TIER 22	27,800	30,299	11.5	10.1108
CLASS 4 TIER 23	30,300	32,899	12.0	10.5504
CLASS 4 TIER 24	32,900	35,499	12.5	10.9900
CLASS 4 TIER 25	35,500	38,299	13.0	11.4296
CLASS 4 TIER 26	38,300	41,199	13.5	11.8692
CLASS 4 TIER 27	41,200	44,199	14.0	12.3088

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 4 TIER 28	44,200	47,299	14.5	12.7484
CLASS 4 TIER 29	47,300	50,499	15.0	13.1880
CLASS 4 TIER 30	50,500	53,799	15.5	13.6276
CLASS 4 TIER 31	53,800	57,199	16.0	14.0672
CLASS 4 TIER 32	57,200	60,799	16.5	14.5068
CLASS 4 TIER 33	60,800	64,399	17.0	14.9464
CLASS 4 TIER 34	64,400	68,099	17.5	15.3860
CLASS 4 TIER 35	68,100	71,899	18.0	15.8256
CLASS 4 TIER 36	71,900	75,899	18.5	16.2652
CLASS 4 TIER 37	75,900	79,899	19.0	16.7048
CLASS 4 TIER 38	79,900	84,099	19.5	17.1444
CLASS 4 TIER 39	84,100	88,299	20.0	17.5840
CLASS 4 TIER 40	88,300	92,699	20.5	18.0236
CLASS 4 TIER 41	92,700	97,099	21.0	18.4632
CLASS 4 TIER 42	97,100	101,699	21.5	18.9028
CLASS 4 TIER 43	101,700	106,399	22.0	19.3424
CLASS 4 TIER 44	106,400	111,199	22.5	19.7820
CLASS 4 TIER 45	111,200	115,999	23.0	20.2216
CLASS 4 TIER 46	116,000	120,999	23.5	20.6612
CLASS 4 TIER 47	121,000	126,099	24.0	21.1008
CLASS 4 TIER 48	126,100	131,299	24.5	21.5404
CLASS 4 TIER 49	131,300	136,599	25.0	21.9800
CLASS 4 TIER 50	136,600	141,999	25.5	22.4196
CLASS 4 TIER 51	142,000	147,499	26.0	22.8592
CLASS 4 TIER 52	147,500	153,199	26.5	23.2988
CLASS 4 TIER 53	153,200	158,899	27.0	23.7384
CLASS 4 TIER 54	158,900	164,699	27.5	24.1780
CLASS 4 TIER 55	164,700	170,699	28.0	24.6176
CLASS 4 TIER 56	170,700	176,699	28.5	25.0572
CLASS 4 TIER 57	176,700	182,799	29.0	25.4968
CLASS 4 TIER 58	182,800	189,099	29.5	25.9364
CLASS 4 TIER 59	189,100	195,399	30.0	26.3760
CLASS 4 TIER 60	195,400	201,899	30.5	26.8156
CLASS 4 TIER 61	201,900	208,499	31.0	27.2552
CLASS 4 TIER 62	208,500	215,099	31.5	27.6948
CLASS 4 TIER 63	215,100	221,899	32.0	28.1344
CLASS 4 TIER 64	221,900	228,799	32.5	28.5740
CLASS 4 TIER 65	228,800	235,799	33.0	29.0136
CLASS 4 TIER 66	235,800	242,899	33.5	29.4532
CLASS 4 TIER 67	242,900	249,999	34.0	29.8928
CLASS 4 TIER 68	250,000	257,299	34.5	30.3324
CLASS 4 TIER 69	257,300	264,799	35.0	30.7720
CLASS 4 TIER 70	264,800	272,299	35.5	31.2116
CLASS 4 TIER 71	272,300	279,899	36.0	31.6512

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 4 TIER 72	279,900	287,599	36.5	32.0908
CLASS 4 TIER 73	287,600	295,399	37.0	32.5304
CLASS 4 TIER 74	295,400	303,299	37.5	32.9700
CLASS 4 TIER 75	303,300	311,399	38.0	33.4096
CLASS 4 TIER 76	311,400	319,499	38.5	33.8492
CLASS 4 TIER 77	319,500	327,799	39.0	34.2888
CLASS 4 TIER 78	327,800	336,099	39.5	34.7284
CLASS 4 TIER 79	336,100	999,999,999	40.0	35.1680
CLASS 3 TIER 1	100	399	1.0	0.8792
CLASS 3 TIER 2	400	799	1.5	1.3188
CLASS 3 TIER 3	800	1,199	2.0	1.7584
CLASS 3 TIER 4	1,200	1,599	2.5	2.1980
CLASS 3 TIER 5	1,600	2,199	3.0	2.6376
CLASS 3 TIER 6	2,200	2,899	3.5	3.0772
CLASS 3 TIER 7	2,900	3,599	4.0	3.5168
CLASS 3 TIER 8	3,600	4,499	4.5	3.9564
CLASS 3 TIER 9	4,500	5,399	5.0	4.3960
CLASS 3 TIER 10	5,400	6,399	5.5	4.8356
CLASS 3 TIER 11	6,400	7,599	6.0	5.2752
CLASS 3 TIER 12	7,600	8,799	6.5	5.7148
CLASS 3 TIER 13	8,800	9,999	7.0	6.1544
CLASS 3 TIER 14	10,000	11,399	7.5	6.5940
CLASS 3 TIER 15	11,400	12,899	8.0	7.0336
CLASS 3 TIER 16	12,900	14,399	8.5	7.4732
CLASS 3 TIER 17	14,400	16,099	9.0	7.9128
CLASS 3 TIER 18	16,100	17,799	9.5	8.3524
CLASS 3 TIER 19	17,800	19,599	10.0	8.7920
CLASS 3 TIER 20	19,600	21,599	10.5	9.2316
CLASS 3 TIER 21	21,600	23,599	11.0	9.6712
CLASS 3 TIER 22	23,600	25,599	11.5	10.1108
CLASS 3 TIER 23	25,600	27,799	12.0	10.5504
CLASS 3 TIER 24	27,800	30,099	12.5	10.9900
CLASS 3 TIER 25	30,100	32,399	13.0	11.4296
CLASS 3 TIER 26	32,400	34,899	13.5	11.8692
CLASS 3 TIER 27	34,900	37,399	14.0	12.3088
CLASS 3 TIER 28	37,400	39,999	14.5	12.7484
CLASS 3 TIER 29	40,000	42,799	15.0	13.1880
CLASS 3 TIER 30	42,800	45,599	15.5	13.6276
CLASS 3 TIER 31	45,600	48,399	16.0	14.0672
CLASS 3 TIER 32	48,400	51,399	16.5	14.5068
CLASS 3 TIER 33	51,400	54,499	17.0	14.9464
CLASS 3 TIER 34	54,500	57,599	17.5	15.3860
CLASS 3 TIER 35	57,600	60,899	18.0	15.8256
CLASS 3 TIER 36	60,900	64,199	18.5	16.2652

Hazard Class Square Foot Tier	Minimum Square Feet	Maximum Square Feet	Equivalent Fire Protection Units	Factored Fire Protection Units
CLASS 3 TIER 37	64,200	67,599	19.0	16.7048
CLASS 3 TIER 38	67,600	71,199	19.5	17.1444
CLASS 3 TIER 39	71,200	74,799	20.0	17.5840
CLASS 3 TIER 40	74,800	78,399	20.5	18.0236
CLASS 3 TIER 41	78,400	82,199	21.0	18.4632
CLASS 3 TIER 42	82,200	86,099	21.5	18.9028
CLASS 3 TIER 43	86,100	89,999	22.0	19.3424
CLASS 3 TIER 44	90,000	94,099	22.5	19.7820
CLASS 3 TIER 45	94,100	98,199	23.0	20.2216
CLASS 3 TIER 46	98,200	102,399	23.5	20.6612
CLASS 3 TIER 47	102,400	106,799	24.0	21.1008
CLASS 3 TIER 48	106,800	111,199	24.5	21.5404
CLASS 3 TIER 49	111,200	115,599	25.0	21.9800
CLASS 3 TIER 50	115,600	120,199	25.5	22.4196
CLASS 3 TIER 51	120,200	124,899	26.0	22.8592
CLASS 3 TIER 52	124,900	129,599	26.5	23.2988
CLASS 3 TIER 53	129,600	134,499	27.0	23.7384
CLASS 3 TIER 54	134,500	139,399	27.5	24.1780
CLASS 3 TIER 55	139,400	144,399	28.0	24.6176
CLASS 3 TIER 56	144,400	149,599	28.5	25.0572
CLASS 3 TIER 57	149,600	154,799	29.0	25.4968
CLASS 3 TIER 58	154,800	159,999	29.5	25.9364
CLASS 3 TIER 59	160,000	165,399	30.0	26.3760
CLASS 3 TIER 60	165,400	170,899	30.5	26.8156
CLASS 3 TIER 61	170,900	176,399	31.0	27.2552
CLASS 3 TIER 62	176,400	182,099	31.5	27.6948
CLASS 3 TIER 63	182,100	187,799	32.0	28.1344
CLASS 3 TIER 64	187,800	193,599	32.5	28.5740
CLASS 3 TIER 65	193,600	199,599	33.0	29.0136
CLASS 3 TIER 66	199,600	205,599	33.5	29.4532
CLASS 3 TIER 67	205,600	211,599	34.0	29.8928
CLASS 3 TIER 68	211,600	217,799	34.5	30.3324
CLASS 3 TIER 69	217,800	224,099	35.0	30.7720
CLASS 3 TIER 70	224,100	230,399	35.5	31.2116
CLASS 3 TIER 71	230,400	236,899	36.0	31.6512
CLASS 3 TIER 72	236,900	243,399	36.5	32.0908
CLASS 3 TIER 73	243,400	249,999	37.0	32.5304
CLASS 3 TIER 74	250,000	256,799	37.5	32.9700
CLASS 3 TIER 75	256,800	263,599	38.0	33.4096
CLASS 3 TIER 76	263,600	270,399	38.5	33.8492
CLASS 3 TIER 77	270,400	277,399	39.0	34.2888
CLASS 3 TIER 78	277,400	284,499	39.5	34.7284
CLASS 3 TIER 79	284,500	999,999,999	40.0	35.1680