Legislative # 090878

ORDINANCE NO. 090878

An ordinance of the City of Gainesville, Florida, amending the Code of Ordinances and the 3 Land Development Code relating to landscape and tree management; by amending Sec. 30-4 23 Definitions; by amending Article VII. Development Review Process (Division 2. 5 Subdivisions and Street Vacation and Division 4. Planned Development District); by 6 amending Article VIII. Environmental Management (Division 1. Generally, Division 2. 7 Landscape and Tree Management, Stormwater Management and Water/Wastewater 8 Connection Policy, and Division 4. Relief and Enforcement); by amending Appendix A. 9 Special Area Plans (for College Park, Traditional City, Central Corridors and University 10 Heights); by amending Chapter 2. Administration (Division 12. Tree Board of Appeals and 11 12 Division 13. Tree Advisory Board); providing directions to the codifier; providing a severability clause; providing a repealing clause; and providing an effective date. 13

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WHEREAS, publication of notice of a public hearing was given that the text of the Land
 Development Code and the Code of Ordinances of the City of Gainesville, Florida, be
 amended; and

18 WHEREAS, notice was given and publication made as required by law and a public 19 hearing was then held by the City Plan Board on February 25, 2010 and by the City 20 Commission on May 6, 2010; and

WHEREAS, city staff prepared and released a draft ordinance for review and comment in March 2011; and

WHEREAS, several public stakeholders expressed concern with and interest in revising
 the draft ordinance; and

WHEREAS, in July 2011, the Gainesville CRA directed CRA staff to hire a consultant to review the draft ordinance and coordinate a stakeholder review process, and on March 19, 27 2012, a revised draft was presented to the CRA board by the CRA staff and consultant, and

WHEREAS, on May 30, 2012, Planning staff provided the revised draft to stakeholders,
 and

WHEREAS, on June 4, 2012, the Tree Advisory Board reviewed and approved the draft
 with revisions; and

WHEREAS, at least 10 days notice has been given once by publication in a newspaper of general circulation notifying the public of this proposed ordinance and of a public hearing to be held in the City Commission Auditorium, City Hall, City of Gainesville; and

35 WHEREAS, the public hearings were held pursuant to the published notice described

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above, at which hearings the parties in interest and all others had an opportunity to be and were, in fact, heard.

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NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF GAINESVILLE, FLORIDA:

Section 1. Section. 30-23, of the Land Development Code of the City of Gainesville, is
 amended as stated below. Except as amended herein, the remainder of Sec. 30-23 remains in
 full force and effect.

8 Sec. 30-23. Definitions.

9 <u>Canopy means the uppermost layer of vegetation in a forest consisting of the tops of trees</u>
 10 forming a kind of ceiling.

11 <u>Champion tree means those trees that are the largest of their species as listed in the</u> 12 <u>Florida Champion Tree Register maintained by the State of Florida Division of Forestry.</u>

13 <u>City tree mitigation fund means a separate city fund that holds funds collected as tree</u> 14 mitigation. This fund may be used for new tree plantings associated with public improvement 15 projects or for the preservation of trees through the purchase of conservation lands, but shall not be 16 used for tree maintenance or for the installation of new trees that are required for a development.

- 17 <u>Council of Tree and Landscape Appraisers means to a group of professional societies</u>
 18 <u>specializing in arboriculture, horticulture and nursery practices that have established a</u>
 19 methodology for appraising the financial value of trees and landscaping.
- 20 *Crown* means the <u>foliated portion of a tree, from the lowest branch to the treetop;</u> 21 <u>synonymous with canopy, main mass of branching of a plant above ground.</u>

Crown spread means the measurement of the outermost tips of a tree's branches as they
form a circle. It is calculated by averaging the diameters of two circles - the distance across the
narrowest point and at the widest point branching distance measured across the greatest diameter
of a crown.

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 27 Diameter breast height (DBH) means the diameter of the main stem of a tree as measured
 28 4.5 feet above the natural grade at the base. The diameter of a multi-stemmed tree is measured at
 29 the narrowest point below the lowest branch.

- *Dripline* means the minimum rooting volume of a tree necessary to sustain the tree's life,
 generally defined by the tree's crown spread or a radius of every 1.25 feet for every 1 inch DBH,
 whichever is greater, and from the surface to a depth of 3 feet.
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Establish or establishment (in reference to planted trees) refers to the period of care that

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must be provided to a young tree after planting, which is a minimum of one year and additional 1 time as needed to ensure the survivability of the trees. If after three years, a young tree has 2 3 developed a strong trunk, roots, branches and foliage, it is considered established and can be expected to survive without supplemental watering, even during drought. 4 5 *Fair or better condition* means that the tree has a relatively sound and solid root, trunk. 6 and canopy structure, no major insect infestation or pathological problem, or problems that 7 cannot be remedied with cultural practices, and a life expectancy greater than 15 years as 8 determined by the city manager or designee. In the event of a disputed health condition, the 9 condition rating system outlined in the latest edition of the Council of Tree and Landscape 10 Appraisers Guide for Tree Appraisers shall be used by the city manager or designee to evaluate 11 the health condition. A score of 60 or higher shall qualify a tree as fair or better condition. 12 13 Gainesville tree list refers to the list in Sec. 30-267 of this code. Heritage trees are native trees that are larger than 20 inches diameter breast height. 14 15 High quality trees are any trees of the following species: Live Oak (Quercus virginiana), Sand Live Oak (O. geminata), Bluff Oak (Q. austrina), Basket Oak (Q. michauxii), Southern 16 Red Oak (Q, falcata), Southern Magnolia (Magnolia grandiflora), Florida Maple (Acer 17 barbatum), Longleaf Pine (Pinus palustris), Spruce Pine (P. glabra), Cedar Elm (Ulmus 18 crassifolia), Winged Elm (U. alata), Florida Elm (U. floridana), Bald Cypress (Taxodium 19 distichum), Pond Cypress (T. ascendens), Tupelo (Nyssa sylvatica), Mockernut Hickory (Caiya 20 tomentosa Pignut Hickory (C. glabra, Pecan (C. illinoensis), Persimmon (Diospyros 21 virginiana), Basswood (Tilia Americana), Tulip Poplar (Liriodendron tulipifera), White Ash 22 (Fraxinus Americana), Green Ash (F. pensylvanica) and Yaupon, Dahoon, and American Holly 23 species (Ilex vomitoria, I, cassine, and I. opaca). 24 High quality heritage trees are heritage trees of the species identified in the definition of 25 high quality trees. 26 High quality shade trees are trees of the native species listed in the definition of high 27 28 quality trees that are identified on the gainesville tree list in the category "high quality shade." 29 Improvement means any manmade, immovable item which becomes part of, is placed upon, or is affixed to real estate. 30 31 Improvements means physical changes made to raw-land and structures placed on or under the land surface, in order to make the land more usable. Typical improvements would be 32 33 clearing and grubbing, grading, street pavements, curb and gutter, drainage ditches, street required trees, storm and sanitary sewers, streetlights, fire hydrants, street name signs, 34 permanent control points (PCP's). 35 36 Invasive, non-native plant species, refer to Section 30-251(6)(g) and (h). 3 Petition No. PB-10-7-TCH CODE: Words stricken are deletions; words underlined are additions.

Landscape materials means <u>improvements such as</u> living trees, shrubs, vines, grasses, ground covers and other plants, sand, or wood mulch <u>and other materials which do not require</u> <u>soil compaction for their installation.</u>, walls and fences and other nonliving, durable materials commonly used in landscaping; landscape water features; and similar materials and design features; provided that visible synthetic materials shall not qualify.

6 <u>Public utility means a utility owned, operated and maintained by a public or</u> 7 governmental entity or a publicly-regulated utility company, including but not limited to 8 stormwater, drainage, water, wastewater, reclaimed water, chilled water, natural gas, electric or 9 telecommunications facilities.

10 <u>Public utility easement (PUE) is a non-possessory, non-exclusive interest in the land of</u> 11 another and the right to use the property for the purpose of installing, operating and maintaining 12 public utility facilities.

13 *Qualitative tree survey*, refer to *Tree survey*, *qualitative*.

14 <u>Regulated trees are those of 8 inches or greater in diameter breast height or any tree that</u> 15 was planted in compliance with an approved development order or to mitigate the removal of a 16 regulated tree. Slash and Loblolly Pines are not regulated until they reach 20 inches in 17 diameter, except those that were preserved during development in order to meet a landscaping 18 requirement, which are considered regulated regardless of size.

- *Required trees* mean those planted to meet a specific landscaping requirement such as
 trees in buffers, landscape islands, and stormwater management areas.
- 21 <u>Rootzone refers to the allotted area of soil that is provided for the growth of tree roots.</u>

Rootzone media refers to the appropriate soil structure and texture to accommodate 22 healthy root growth for required landscaping. The minimum components of rootzone media are 23 uncompacted soil (bulk density less than 1.50 g/cc in loam. 1.70 g/cc sand, or 1.40 g/cc clay soil) 24 devoid of seeds of invasive exotic species and of pH 5.5 to 6.5, composted leaf mold or peat 25 moss, and well-graded, medium angular sand (0.50 to 0.25 mm). The natural topsoil of the site 26 qualifies if the above qualities exist. The maximum depth for structural soil used as root zone 27 media shall be 36", the maximum depth for root zone media used with structural root box cells 28 shall be 45". 29

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Root zone volume refers to a measurement of the net soil volume not including structural
 components such as stone. The root zone can include soil within the tree opening or soil under
 pavement, as long as the soil volumes are compacted to no more than 85% dry density.
 Structural soils are exempt from this compaction requirement. A variety of techniques are

- 35 suitable for under pavement locations, including but not limited to structural root box cells,
- 36 structural soil, tree wells, root paths and soil trenches. The soil volumes must be accessible to
- 37 the tree roots to be considered part of the root zone volume. Rooting space should be composed

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1 2	of soil defined in the ordinance as root zone media. The depth of root zone, for purposes of calculating the volume, shall not exceed four feet.
3 4 5 6	<u>Root paths are narrow trenches under pavement filled with root zone media and strip</u> drain board, which are used to guide roots out of confined planting areas.
5 7 8 9	Soil trenches are trenches under reinforced structural slabs filled with root zone media compacted to a maximum 80% proctor, which are used to guide roots out of confined planting areas.
10 11	Soil bulk density is a measure of soil compaction expressed as the mass of soil per unit of volume.
12 13 14	Soil compaction is compression of the soil resulting in a reduction of the total pore space, especially the macropores (air-filled spaces between soil particles) and micropores (which fill with water).
15 16 17	Structural soil is a designed medium which can meet or exceed pavement design and installation requirements while remaining root penetrable and supportive of tree growth.
18 19 20	Structural root box cells are fiberglass-reinforced polypropylene structures including frames and decks designed to support pavement loads and hold root zone media for the purpose of supporting tree growth.
21 22 23 24	<u>Tree appraised value means the dollar value to the city of a tree on private or public</u> property used for the purpose of calculating cash recompense for removal or destruction. The <u>Tree appraised value shall be calculated as follows:</u>
24 25 26	(3.14) x ($\frac{1}{2}$ diameter breast height) ² = trunk area
27 28 29	(trunk area) x (unit factor for square inch price, as determined annually by the Tree Advisory Board in consultation with the City Manager or designee) = square inch value
30 31	(square inch value) x (55% diminution rating) = tree appraised value
32 33 34 35	Example calculation: 20" Live Oak in fair or better condition: (3.14) x $(1/2 \times 20)^2 = 314$ square inches of trunk area (314 sq in) x (\$40) = \$12,560 square inch value (\$12,560) x (.55) = \$6,908 tree appraised value
36 37 38 39	Tree grouping or major tree grouping means an assemblage of closely spaced trees thatencompass an area of at least 400 square feet and that provide coverage of at least 50% of thatarea. with the following-characteristics:(1)The perimeter of the assemblage encompasses at least 400 square fcet; and
40	(2) The coverage of the assemblage tree canopy is at least 50 percent.

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- Tree lawn refers to a pervious area between the back-of-curb and sidewalk or along the 1 street edge intended for the planting of street trees. 2
- 3 Tree root plate refers to the below-ground area adjacent to the trunk where the major 4 buttress roots and support roots occur, generally a circular area with a radius of four (4) times the 5 diameter of the tree trunk at ground level. For example, a 2 foot diameter trunk has a root plate 6 radius of 8 feet outside the trunk on all sides. 7
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- Tree survey is a map that depicts the geographic location of regulated trees with their 9 scientific names (both genus and species) and indicates the diameter of each regulated tree 10 measured at 4.5 feet above the natural grade at the base. 11 12
- 13 Tree survey, qualitative is an alternative to the tree survey. A qualitative tree survey shall be prepared by and executed by a certified arborist with current credentials from the International 14 Society of Arboriculture or by a licensed landscape architect. The report must show the surveyed 15 location, diameter, genus and species of all Heritage trees, all regulated trees of high quality 16 shade tree species, other trees worthy of protection, and existing trees planted to comply with 17 earlier approved development plans. On-site meetings with the city manager or designee will 18 confirm which trees shall be included in the survey and to confirm that the survey meets code 19 requirements. The survey shall also cover matters identified as significant relative to the urban 20 forest based on site conditions. 21
- Tree wells consist of an complete or partial enclosure below ground, filled with rootzone 22 media, where a tree is planted. Apertures at the surface are provided to conduit air and water to 23 the tree roots. 24
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- Urban forest refers to the sum total of all vegetation growing within the city limits, 26 whether on public or private property. 27

Section 2. Sections 30-180, 30-182(c)(2), 30-183(e)(2), 30-183 (g), and 30-183(i)(2), 30-28 184, 30-187(c)(1), 30-187(p), 30-187(t), and 30-188(c)(3) of Article VII. Development Review 29 Process, Division 2. Subdivisions and Street Vacation of the Land Development Code of the City 30 of Gainesville, are amended as stated below. Except as amended herein, the remainder of Article 31 VII. Development Review Process, Division 2. Subdivisions and Street Vacation, remains in full 32 force and effect. 33 34

- 35 Sec. 30-180. Purpose and intent.
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This article is intended to provide direction and standards for the division of land in a 37 manner that would facilitate the coordination of land development in accordance with orderly 38 physical patterns; to encourage development of an economically stable and healthful community; 39 to ensure proper identification, monumentation and recording of real estate boundaries; to ensure 40 that adequate and necessary physical improvements of lasting quality will be installed in 41 subdivisions by the subdividers and that taxpayers will not bear this cost; to provide for safe and 42 convenient vehicle, bicycle, pedestrian and transit access; to provide an efficient, adequate and 43

economic supply of utilities and services to new land developments; to prevent periodic or seasonal flooding and to protect groundwater and surface water quality through provision of protective flood control and stormwater management facilities; to help conserve and protect physical and scenic resources; to sustain and replenish the urban forest; to promote the public health, safety, comfort, convenience and general welfare; and to implement the city's comprehensive plan.

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Sec. 30-182. Pre-application conference.

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(c)

Concept Review (Sketch drawing).

- (2) The sketch shall contain the following data:
 - a. Approximate tract boundaries;
 - b. Approximate location with respect to section lines;
 - c. Streets on and adjacent to the tract;
 - d. Proposed general street layout;
- e. Environmental features including but not limited to significant
 topographical and physical features including regulated surface waters and
 wetlands, regulated natural and archaeological resources, creeks, uplands,
 lakes and wetlands FEMA and community determined flood plains, and
 heritage trees;
 - f. Generalized existing vegetation; <u>including areas of native forest</u> where the land shows no evidence of prior use for agriculture;
 - g. Proposed general lot layout and the total number of lots;
 - h. Existing buildings on the property;
 - i. Land use and zoning designation of the subject property; and
 - j. Generalized stormwater management plan.
- 27 Sec. 30-183. Design plat requirements and approval.
- 29 (e) Specifications.
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- (2) The design plat shall also contain or be accompanied by:
- h. The location of all major tree groupings and identification of all heritage trees by genus and species on the subdivision tract, a designation of which tree groupings and heritage trees are proposed to be removed, and identification by genus and species of all regulated trees as defined in section 30-254 located in or within 15 feet of any proposed right-of-way or utility improvement. A generalized landscaping plan that shows the locations of the required shade trees with the appropriate space allocations to meet code requirements for street trees, buffers, retention basins and stormwater management facilities. The design plat and the final plat shall include a statement that all champion and high quality heritage trees shall be preserved or mitigated in accordance with the requirements of this

code.

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2n.A plan for the elimination and future control of invasive non-native plant3species from the site. The non-native removal shall be completed as4specified in the management plan prior to the issuance of the first5certificate of occupancy and yearly inspections for three years to assure6that infested areas have remained at less than 10 percent of the initial7population.

9 (g) Review of design platn. The development review board review shall include consideration of staff findings and evidence and testimony from the general public. The 10 board shall determine if the proposed subdivision is in conformity with the general goals 11 and objectives of the city with respect to the officially adopted comprehensive plan; the 12 city's official roadway map; existing zoning requirements, including amendments thereto; 13 policies and plans established by the city with respect to neighborhoods, lake levels, 14 water supply, maintenance of the tree canopy levels identified in the comprehensive plan, 15 control of invasive non-native plant species, protecting environmental features, provision 16 for emergency access, consideration of pedestrian, bicycle and transit access and 17 greenway connections, waste disposal and other essential utilities; the overall stormwater 18 management plan including landscaping of stormwater management basins; and policies 19 for development in any special improvement and redevelopment districts. Particular 20 attention shall be given to the arrangement, location and width of streets, the provision of 21 22 high quality shade trees along the streets, their relation to the topography of the land, water supply, sewage disposal, stormwater management, lot sizes and arrangement and 23 the present or future development of abutting property. 24 25

- 26 (i) City commission review.
- 28 (2)The city commission shall review the recommended design plat and consider 29 findings made by the development review board and/or staff. The city commission shall determine if the proposed subdivision is in conformity with the 30 general goals and objectives of the city with respect to the officially adopted 31 32 comprehensive plan; existing zoning requirements, including all amendments thereto; policies and plans established by the city with respect to neighborhoods, 33 lake levels, water supply, sustaining the urban forest, protecting environmental 34 features, provision for emergency access, consideration of pedestrian, bicycle, 35 36 vehicle and transit access and greenway connections, waste disposal and other 37 essential utilities; the overall stormwater management plan; and policies for development in any special improvement and redevelopment districts. Particular 38 39 attention shall be given to the arrangement, location, function and width of streets, their consistency with the goal of developing a multimodal transportation network 40 and providing sufficient space for street trees both above and below ground, their 41 interaction with the overall transportation system and relation to the topography 42 43 of the land, water supply, sewage disposal, stormwater management, lot sizes and arrangement and the present or future development of abutting property. 44

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Sec. 30-184. Preparation, submission and review of construction plans.

- (a) *Preparation.* Following the city commission approval of the design plat, the subdivider shall submit construction plans and specifications for all subdivision improvements required, in accordance with this article. The construction plans must be prepared, by an engineer registered in the state, in conformance with section 30-188 of this article, the design manual on file in the public works department, and other applicable local, state and federal regulations.
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- (b) Submission and review. The subdivider shall submit five multiple sets of plans as
 necessary to facilitate review by the City. to the planning division within the planning
 and development services department for review by the following: public works
 department, Gainesville Regional Utilities, Alachua County Environmental Protection
 Department, planning and development services department and the building department
 or other department to be determined by the planning division.
 - The plans shall be submitted to the planning division during a regular review cycle for development review. Following their reviews, if the construction plans are consistent with the approved design plat and comply with all standards and specifications, public works department and Gainesville Regional Utilities shall notify the subdivider and the planning division within the planning and development services department of construction plan approval. If the construction plans are not consistent with the design plat as approved by the city commission or do not comply with all standards and specifications, the public works department and Gainesville Regional Utilities shall notify the subdivider of:
 - (1) Conditional construction plan approval, subject to any necessary modifications which shall be indicated on the plans or attached to them in writing; or
 - (2) Disapproval of the construction plans or any portion thereof, indicating in writing the reasons for the disapproval. The subdivider shall be responsible for timely resubmittal of acceptable plans within 12 months from the date of approval of the preliminary development order.
- (c) Required maps and drawings. Plans for the proposed improvements and a boundary 36 survey shall be required to be approved by the planning and development services 37 department, parks, recreation and cultural affairs department, public works department 38 and Gainesville Regional Utilities prior to approval of the final plat by the city 39 commission. The final plat shall be recorded in the public records unless the subdivider 40 41 has complied in all respects with subsection 30-186(e). The improvement plans shall show the proposed locations, sizes, types, grades and general design features of each 42 facility, and shall be based upon reliable field data. These drawings shall include, at a 43

1 minimum, a topographic map, stormwater management plan, a landscape plan, an invasive exotic plant control plan, and construction drawings showing street profiles, 2 street cross sections and water supply, sewer and stormwater management as specified by 3 the public works department and Gainesville Regional Utilities and all champion and 4 heritage trees identified for preservation or removal, with protective barricades drawn to 5 scale. The landscape plan shall show all buffers and stormwater management areas as 6 well as the locations and specifications for street trees. 7 8 Sec. 30-187. Design standards. 9 10 Streets. 11 (c) 12 (1)The arrangement, character, extent, width, grade and location of all streets shall 13 conform to the comprehensive plan, particularly any neighborhood elements, 14 now in existence or as may hereafter be adopted, and shall be considered 15 in their relation to existing and planned streets, to topographical conditions, 16 to the provision of wide tree lawns and tree planting to yield shaded streets, to 17 public convenience and safety, and in their appropriate relation to the proposed 18 uses of the land to be served by such streets. 19 20 Utilities easements. When they are necessary to serve the subdivision, utilities easements 21 (p) shall be provided, with a minimum width of 15 20 feet, located along lot lines. The 22 location of the utility easements shall not interfere with the required space devoted to 23 street trees and tree lawns. Additional width may be required for sewer or stormwater 24 management easements. Side lot line easements may be decreased to ten feet in width 25 when serving a single electric, cable TV, gas or telephone utility. Rear lot line easements 26 shall be discouraged, unless they are provided along an alley. 27 (t) Stormwater facilities. 28 (4)Trees selected from the Gainesville tree list that are identified as appropriate for 29 stormwater basins shall be planted to meet the requirements identified in Sec. 30-30 253.2. 31 32 33 Sec. 30-188. Required improvements. 34 35 (c)Street specifications. Streets shall be designed in accordance with the following: 36 (1)Standards contained in the design manual that specify dimensions and 37 construction standards for subgrade, pavement base, wearing surface and 38 minimum pavement width for minor local streets, major local streets, minor local 39 collectors, major local collectors, minor arterials, and major arterials; and 40

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- (2) Guidelines that address curb and gutter roadways, non-curb and gutter roadways, roadway widths for on-street parking, and the location of sidewalks.
- (3) Street trees shall be planted along the sides of all streets within the subdivision and on the subdivision side of any contiguous street, meeting the requirements of Sec. 30-251 and 30-253.1.

Section 3. Sec. 30-211 of Article VII. Development Review Process, Division 4. Planned Development District, Land Development Code of the City of Gainesville, is amended as stated below. Except as amended herein, the remainder of Section 30-211 remains in full force and effect.

- 12 Sec. 30-211. Purpose and intent.
- (b) Objectives. The PD provisions are intended to promote flexibility of design and
 integration of uses and structures, while at the same time retaining in the city commission
 the absolute authority to establish limitations and regulations thereon for the benefit of the
 public health, welfare and safety. By encouraging flexibility in the proposals which may
 be considered, while at the same time retaining control in the city commission over the
 approval or disapproval of such proposals, the PD provisions are designed to:
 - (3) Preserve to the greatest extent possible, and utilize in a harmonious fashion, existing and outstanding landscape features, high quality heritage trees, and scenic vistas.
- (7) Promote the use of traditional, quality-of-life design features, such as pedestrian
 scale, parking located to the side or rear of buildings, narrow streets, connected
 streets, terminated vistas, front porches, recessed garages, alleys, aligned building
 facades that face the street, <u>streets canopied by large shade trees located within</u>
 wide tree lawns or in tree wells constructed to allow sufficient space, and formal
 landscaping along streets and sidewalks.

32 Section 4. Section 30-250 (a) and (b), Article VIII. Environmental Management, 33 Division 1. Generally, of the Land Development Code of the City of Gainesville, is amended as 34 stated below. Except as amended herein, the remainder of Section 30-250 remains in full force 35 and effect.

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7 Sec. 30-250. Purpose; objectives; environmental review.

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- (a) *Purpose*. This article is established for the purpose of protecting the immediate and
 longterm public health, safety and general welfare by preserving, enhancing, conserving
 or restoring the natural environment. The intent with respect to the urban forest is to
 establish and maintain a sustainable tree canopy in which the healthiest and strongest

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1	existir	ig trees are preserved during development, and new high quality shade trees are
2	plante	d. Development and other activities within the city shall be in accordance with this
3	purpo	se.
4		
5	(b) Object	tives. The provisions in this article are intended:
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7	<u>(42)</u>	To diminish the severity and frequency of southern pine beetle outbreaks in
8		Gainesville by reducing the density of loblolly pines in urban areas.
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10	<u>(43)</u>	To preserve high quality heritage trees, especially where they occur within 20 feet
11		of the public right-of-way.
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13	(44)	To favor replanting with native species of high quality shade trees, including
14		requiring such trees to be planted in locations that will reintroduce seed sources to
15		adjacent natural communities.
16		
17	Section	n 5. Section 30-251, Section 30-252 and Section 30-253, of Article VIII.
18	Environmen	tal Management, Division 2. Landscape and Tree Management, Stormwater
19	Managemen	t and Water/Wastewater Connection Policies, Subdivision I. Landscape and Tree
20	Managemen	t, Land Development Code of the City of Gainesville, are amended as stated
21	below. Exce	pt as amended herein, the remainder of Article VIII. Environmental Management,
22		2. Landscape and Tree Management, Stormwater Management and
23		ewater Connection Policies, Subdivision I. Landscape and Tree Management
24	remains in fi	all force and effect.

26 Sec. 30-251. Elements of compliance.

All property within the city shall be subject to the following regulations except as exempted by subsection 30-251(2)h. No parcel within the city may be cleared, grubbed, filled or excavated, nor shall any building be <u>demolished</u>, altered or reconstructed in a manner which <u>negatively impacts regulated trees</u>, changes the site plan, site use or increases the impervious surface area except in compliance with this article. Requirements of these sections do not exempt property owners from compliance with any other section of this chapter.

- (1) *Minimum percentage of developed area devoted to landscaping.* Property shall be
 designed, constructed and used so that the total of the areas devoted to landscape
 materials of any site is at least 20 percent of the area devoted to development,
- 36 (2)(1) Minimum requirements for landscaped areas. All areas designed to meet the
 37 requirements of these sections shall comply with the following:
- 38(a)Any required landscape island containing a tree shall have a minimum of39140 square feet.Street trees shall be provided a minimum rootzone volume

1	of 700 cubic feet, except street trees which share a rootzone volume shall
2	require a minimum of 550 cubic feet. All other required shade trees shall
3	be provided a minimum of 420 cubic feet of rootzone volume. Where
4	existing conditions preclude the provision of the minimum rootzone
5	volume, the reviewing board or city manager or designee may approve a
6	lesser volume that meets the arboriculture needs of the tree within the
7	existing conditions. The width of any side shall be at least nine feet.
8	Underground utility lines shall not be located within the rootzone volume,
9	except for those lines that are four-inch diameter or less, and then only
10	where the utility separation requirements in subsection (b) below are met.
11	Prior to planting, any limerock or construction debris found in this area
12	shall be removed, and rootzone media soil shall be provided to a depth of
13	at least 3 feet. Pedestrian walkways should not reduce the minimum area
13	or width requirements for any landscape island containing a tree. Shade
14	trees shall be located a minimum of 10 feet from a building face or from
15	major architectural features of the building (including but not limited to
17	balconies, awnings, bay windows or porches).
10	
18	(b) Landscaping of stormwater management areas shall conform to all
19	requirements of this chapter and the public works department design
20	manual. Retention/detention areas should be landscaped with trees, shrubs,
21	ground covers and native perennials appropriate to the function as a wet or
22	dry basin. If the landscaped area is also designed to meet on-site
23	stormwater management requirements, on of the following conditions
24	must be met:
25	
26	1. The area must be designed to provide an aesthetic focal pint, such
27	as a lake, creek or other water feature; to preserve a tree grouping;
28	or to utilize the existing terrain and/or geological features of the
29	site;
30	
31	2. The area must be preserved in such a manner as to maintain an
32	existing wetland function or to preserve of establish habitat for a
33	viable population of native plant, animal or insect species.
34	
35	3. The design of the retention/detention basin shall meet the
36	following criteria:
37	tonowing onwhat
38	i. Varying side slopes or vertical side slopes (basins 18
38 39	
	inches or less in depth);
40	
41	ii. The basins shall be of an irregular shape, having no parallel
42	sides;
43	

1	iii. Twenty five percent or more of the basin area including
2	the shoulders shall be landscaped, and shall include the
3	equivalent of at least one shade tree for every 35 linear
4	feet, or part thereof, of basin perimeter; spacing of trees
5	may be closer when trees are planted in groups for
6	aesthetic effect; and
7	
8	iv. The landscaping for the basin shall be integrated with the
9	entire landscape plan.
10	
11	4. The retention/detention area utilizes wetland and aquatic
12	vegetiation compatible with cleaning of stormwater runoff.
13	
14	(b) <u>A minimum separation requirement of 7.5 feet is required between new</u>
15	trees and existing or proposed water, wastewater force main, reclaimed
16	water, gas, electric and telecommunications main and service utility lines,
17	to protect against root incursion. A minimum separation requirement of 10
18	feet is required between new trees and existing or proposed wastewater
19	gravity collection mains and laterals. Where feasible, separations should
20	be marginally increased in order to account for inaccuracies in surveying,
21	engineering or construction. Reduced separation distances to 3.5 feet may
22	be allowed at the discretion of the utility company. In these instances the
23	utility company may require one of the following measures to protect the
24	utility lines, in accordance with the standards established by the utility
25	company:
26	
27	1. Compaction of the soil immediately adjacent to the underground
28	lines to 98 percent proctor density from the utility line to within 12
29	inches of ground surface; or
30	
31	2. Encasing the utility line with excavatable flowable fill, steel
32	casing, or other acceptable methods; or
33	
34	3. Wrapping the utility line with an herbicide-impregnated geo-textile
35	bio-barrier cloth; or
36	4. Protecting the utility line with structural barriers of cast-in-place or
37	pre-cast concrete panels, steel or high-density plastic sheet-pile
38	barriers; or
39	5. Steel casing, installed in accordance with standards established by
40	the utility company.
40	the tunity company.
41	Where an existing tree is to be preserved, trenchless installation shall be
	mere un emerg ace is to be preserved, tememess misunation shall be

required for the installation of underground utilities, using directional boring or jacking-and-boring of a casing pipe throughout the tree root plate.

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(c)An irrigation system, or a readily available water supply within a distance of 100 feet, shall be supplied for all landscaped areas. An automatic irrigation system shall be provided for developments of existing property in accordance with subsection 30-251(3)b.4., if the total area of impervious surfaces devoted to vehicular use areas exceeds 10,000 22,500 square feet. Such irrigation shall promote water conservation by such methods as drip irrigation and/or efficient sprinkler zoning, as well as reducing the amount of irrigation as plants become established. Each required tree shall be served by a drip ring or bubblers or other appropriate means necessary to ensure that the entire rootball is irrigated. The irrigation system shall be designed and located to minimize the watering of impervious surfaces. Successful establishment of trees should occur within one year. After that time, use of the automatic irrigation system may be discontinued. If the required trees die within 3 years of planting, they shall be replaced in accordance with Sec. 30-265(b), and replanted trees will require irrigation throughout the next establishment phase.

- (d) Plants shall be sized such that, within three years of the time of planting, at least half of the required landscaped development shall be devoted to living plants. Remaining-Landscape areas that are not planted shall be grassed or mulched with organic materials. Grassed areas shall be planted with sod that has been certified free of noxious weeds by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
- (e) When a landscaped area is adjacent to or within a vehicular use area, curbing shall be used to protect landscaped areas from encroachment. Parking spaces shall be designed to provide pervious surface for the vehicle overhang area. Shrubs and trees shall be placed away from the wheel stop, so that they will not be encroached upon by vehicles. In lieu of curbing, the alternative means of preventing encroachment shall be shown on the site plan.
- 36 (f) All required trees shall be selected from the Gainesville Ttree Llist. Tree species not appearing on the Gainesville Ttree Llist may be planted only 37 38 with prior approval of the city manager or designee or appropriate 39 reviewing board. In order to encourage plant diversity, no more than 50 percent of the selected canopy trees shall be of the same genus,-except for 40 street tree plantings, which, on a given street should-be uniform with 41 respect to genus, size, and shape. Developments which require 16 or more 42 shade trees shall have at least four different high quality shade tree species. 43

1	Street tree diversity is to be attained city-wide in order to reduce the effect
2	of loss of street tree species due to insect or disease outbreaks, even though
3	street tree diversity may not be attained on an individual street. The
4	applicant or landscape contractor shall schedule an on-site meeting with the
5	city arborist city manager or designee prior to the installation of any trees or
6	shrubs to ensure compatibility with infrastructure and compliance with
7	landscape code requirements.
8	(g) Any landscaped area adjacent to an intersection or driveway shall conform
9	to the requirements for the vision triangle, article IX,
10	section 30-341.
11	(h) Trees located near the street shall be planted in locations that meet the
12	clear zone requirements of the city public works department or the
13	maintaining agency.
14	
15	(2) h. Exemptions to landscaping requirements:
16	
17	(1)(a) Lots within single-family zoning districts and the developed portion of any lot
18	over two acres in actual single-family residential use are exempt from the
19	requirements of this section, except as provided in Section 30-254. that section
20	30 257, pertaining to C<u>c</u>hampion trees, section 30-258, pertaining to
21	Hheritage trees, and section 30-261, pertaining to subdivision requirements,
22	shall apply.
23	
24	(2) Excluded areas as defined in section 30-266.
25	
26	(3) Lots in actual industrial use or having been zoned as I 1 limited industrial
27	district, or W warehousing and wholesaling district, or which are zoned MU 2
28	mixed use medium or CCD central city district, are exempt from section 30 253,
29	pertaining to buffer strip requirements, when such buffer strips occur along
30	any common boundary with property in active use for rail transportation or
31 32	zoned I 1, I2 or WPaved areas devoted to loading and outside storage are exempt from subsection 30 252(b)(2) as it pertains to interior landscaping-of
32 33	vehicular use areas.
33 34	venicular use areas:
35	(4)(b) Development within the approach and clear zone areas as specified on the
36	Gainesville Regional Airport master plan <u>as of 1999</u> , on file with the director
37	of aviation, Gainesville Regional Airport, shall be exempt from the provision
38	of required shade trees in areas where federal regulations prohibit shade trees
39	or where shade tree growth can be expected to penetrate airport zone surfaces
40	regulated under Federal Aviation Regulations 14 CFR, Part 77. If permitted,
41	understory trees shall be substituted. Trees may be removed from such areas
42	upon filing a tree removal permit accompanied by submission of written
43	authorization from the Gainesville/Alachua County Regional Airport Authority

Ĩ		or FDOT to the c	ity manager or designee; no reforestation is required.
2			required in areas where federal regulations prohibit trees or
3			owth can be expected to penetrate airport zone surfaces
4			eral Aviation Regulations 14 CFR, Part 77. Mitigation
5			1 except for high-quality heritage trees, which shall be
6			nce with Sec. 30-254.
7		_	
8		(c) Where required shad	e trees are expected to conflict with planned solar energy
9			nents may compensate for the required trees by relocating
10		-	d area or preserving an equal number of existing high-
11			elsewhere on the site. At least 140 square feet shall be
12			ew shade tree to be planted, and existing trees shall be
13		the second	nce with Sec. 30-255. These trees shall be located so that
14			turity without obstructing the generation of solar energy,
15			hey are planted or preserved shall be delineated and noted
16			area" on the development plans.
17		<u></u>	
18		(5) All parking garages	s shall be exempt from section 30-252, pertaining to
19			nents for vehicular use areas; however, vehicles shall be
20			nt properties and public rights of way through the use of
21		opaque materials at g	1. Statistic distribution of the state of
22		·r··1·· ···· ··· ·	
23	(3)	Expansion of neighborh	ood shopping centers (NSC), community shopping centers
23 24	(5)		ele II, or developments of 50,000 square feet or more.
24 25			wood shopping centers, community shopping centers, or
25 26		a financial and a second a s	square feet or over shall comply with the following
20 27		regulations:	square reer or over shan comply what the following
		•	
28			developments which contain 50,000 square feet or more
29		shall comply with the fol	iowing regulations:
30			
31			his/her representative shall submit an amendment to an
32		approved develop	ement plan as provided in article VII, or, if there is no
33		approved develop	oment plan for the development, shall file a development
34		plan in accordar	nce with the procedures provided in article VII. The
35		amendment or de	velopment plan shall, at the option of the applicant, show
36		either full comp	liance with the provisions of this article or provide a
37		complete phasing	g schedule for the installation and completion of all
38		landscape require	ments as provided in this article.
39		(b) The phasing sch	edule shall conform, at a minimum, to the following
40		standards_:	the second the second the second the second se
41			
	Proposed Dev	velopmentSite Plan	Mandatory Compliance
	Amendment	Andre	NESSENARCE STATUE RELATIONS STATUE RELATION FOR A CONTRACTOR OF A CONTRACTOR A CONT
	the second second second	a contrato accord	

1.	Any expansion which increases the gross floor area of a development by <u>10 ten</u> percent or less.	The expansion area, all areas adjacent to the public right-of-way, as practicable, and all parking spaces directly related to such area. the expansion area.	
2.	Any expansion which increases the gross floor area of a development by more than ten percent but less than 20 percent.	The expansion area, all areas adjacent to the public right-of-way, and all property within 25 feet, where practicable, plus 25 percent of the remainder of the development. <u>Removal of</u> asphalt to create street buffers and parking lot islands will be <u>considered practicable</u> .	
3.	Any expansion which increases the gross floor area of a development by 20 percent or more but less than 35 percent.	The expansion area, all areas adjacent to the public right-of-way, and all property within 25 feet, where practicable, plus 50 percent of the remainder of the development. <u>Removal of</u> <u>asphalt to create street buffers and parking lot islands will be</u> <u>considered practicable.</u>	
4.	Expansion which increases the gross floor area of a development by 35 percent or more.	The entire development	
	compliance each development com This provision sh do not exceed the 1. Ten perce	ne remainder of the development shall be brought into and every succeeding year thereafter until the entire nplies with the landscape requirements of this article. wall not apply to expansions of the gross floor area which of following dimensions: ant of the floor area; and are feet of the floor area;	
	whichever	requirement is less.	
For purposes of this subsection, repeated expansions of property, including the construction or erection of separate buildings or accessory structures, constructed within a period of 36 months, which meet the above thresholds in the table shall comply with the provisions of this article as provided above.			

1. Buffering incompatible land uses;

1		2.	Improvement to areas of visual or environmental impact;
2.		2	
3 4		3.	The economic and technical feasibility of landscaping particular areas- <u>; and</u>
5			
6		<u>4.</u>	The visibility of landscaping areas from public roads or sidewalks.
7	C (34)		alteration of existing uses except neighborhood shopping centers,
8		community sh	opping centers and Expansions of existing developments which
9		<u>contain</u> of less	than 50,000 square feet shall comply with the following regulations:
10			
11		(a) Expans	ions of vehicular use area added after June 10, 1992, shall meet the
12			nents of section 30-252 for the expanded area and shall also meet
13		· - 2	ments for street and use buffers adjacent to the expanded area.
14			non a se sur as sures agazent to the expanded atea.
15		(b) Whene	ver expansion of a developed area, independently or cumulatively,
16			blished after June 10, 1992, totals 4,000 square feet, or more than
17		ter an	preent of the gross square footage of the developed area, whichever
17			
			the entire site shall be brought into compliance with this article. For
19			poses of this subsection, repeated expansions or alterations of the
20			y, including the construction or erection of separate buildings or
21			bry structures, constructed within a period of 36 months which meet
22		the abo	ve threshold, shall comply with the provisions of this article.
23			
24			w use of property which alters the use of existing structures from a
25			tial use to a nonresidential use, or any use of property which alters
26			of property from one use to any other use, shall be required to meet
27		all app	licable landscaping requirements. The city manager's or designee
28		shall de	etermine the applicable requirements based on the character and
29		orientat	ion of the proposed mixed use development. For purposes of this
30		subsect	ion, nonresidential use shall mean any office, commercial, public,
31			blic, institutional or industrial use, including motels and hotels.
32			
33		(d) The use	of property, including outdoor activities and parking, which
34			s the lot area of any use, when such property adjoins property in
35			use as a single-family residence or shown in any single-family
36			district, shall be required to conform with all buffer requirements.
37		(e) Where a	structure or parking facility existing prior to June 10, 1992, would
38	A		bited from expansion or change of use from one nonresidential use
39			her solely on the basis of an inability to provide the required
40			bing around and in such previously existing facilities, then the
41			ment review board or plan board may allow reasonable use of the
42			in compliance with all other aspects of this chapter, if the applicant

can show that: 1 1. The structure and/or parking facility existed prior to June 10, 1992; 2 and 3 The amount of existing landscaping would not be 2 4 diminished. 5 6 7 (e) Expansions of outdoor storage shall require screening in accordance with the requirements in Sec. 30-97. 8 9 Parking lots under lease. The area of any lot under lease which contains required 10 (5) parking spaces for any use as provided in article IX shall comply with the 11 provisions of this section as a precondition to the issuance of any development 12 order issued in connection with such lot for such use. 13 14 15 (5)(6) Minimum submittal criteria. All landscape plans must be drawn to scale and have a north arrow, and accurately depict all buildings, pavement, on-site facilities, 16 utilities and lighting systems. The landscape drawing or accompanying 17 development plan must give the permitted use of adjacent parcels and the total 18 19 square footage of all pavement on-site. Stormwater basins shall be designated as either wet or dry. A plant schedule shall be provided showing the botanical name, 20 21 size, spacing and number of all required plant materials. Architectural symbols depicting trees to be installed shall not exceed the scale equivalent of five feet in 22 23 diameter with a solid line; a hatched line around the solid line shall show the expected canopy dimension after twenty years as identified in the Gainesville tree 24 list. Any native tree or shrub may be substituted for the identified plant with city 25 staff approval, provided that the tree or shrub is adaptable to the amount of 26 sun/shade, wet/dry and size conditions where it will be planted, and insofar as the 27 28 provisions for diversity, shading and/or screening described in the article are met. 29 Changing tree species shall not diminish the total number of high quality shade trees in their required locations. Plant material shown in addition to the required 30 elements of the landscape plan may be labeled as optional and shall not be subject 31 32 to inspection. 33 (6)(7) Design principles and standards. All landscaped areas required by this article 34 shall conform to the following general guidelines: 35 36 The preservation of structurally sound native trees of high quality shade 37 a. tree species and shrubs is strongly encouraged to maintain healthy, varied 38 and energy-efficient vegetation throughout the city, and to maintain habitat 39 for native wildlife species. Developments should be designed to preserve 40 existing high quality heritage trees, especially those located within 20 feet 41 of the public right-of-way. 42

1		
2	b.	The landscaping plan should integrate the elements of the proposed
3		development with existing topography, hydrology and soils in
4		order to prevent adverse impacts such as sedimentation of surface waters,
5		erosion and dust.
6		
7	С.	The functional elements of the development plan, particularly the drainage
8		systems and internal circulation systems for vehicles and pedestrians,
9		should be integrated into the landscape plan. The landscaped areas should
10		be integrated, especially to promote the continuity of on-site and off-site
11		open space and greenway systems, and to enhance environmental features,
12		particularly those features regulated by the environmental overlay districts
13		(article VIII).
14		
15	d.	The selection and placement of landscaping materials should maximize the
16		conservation of energy through shading of buildings, streets, pedestrian
17		ways, bikeways and parking areas. Where possible, shade trees should be
18		planted along internal sidewalks that connect buildings to the street
19		sidewalk and to other buildings on the site. The use of wind for ventilation
20		and the effect on existing or future solar access shall be considered.
21	e.	Landscaping design should consider the aesthetic and functional aspects
22		of vegetation, both when initially installed and when the vegetation has
23		reached maturity. Newly installed plants should be placed at intervals
24		appropriate to their expected function as short-term or long-term elements
25		the size of the plant at maturity, and the design should use shortterm and
26		longterm elements to satisfy the general design principles of this section
27		over time. The natural and visual environment should be enhanced
28		through the use of materials which achieve a variety with respect to
29		seasonal changes, species of living material selected, textures, colors and
30		size at maturity.
31	f.	The placement of trees around buildings should permit access to the
32		building by emergency vehicles.
33	g.	The installation of the following invasive nonnative species is prohibited
34		as is installation of any species labeled as "Prohibited" in the most
35		recently published version of the Institute of Food and Agricultural
36		Science (IFAS) Invasive Species Assessment:
37		
38		INVASIVE, NONNATIVE
40		PLANT SPECIES

Common Name	Scientific Name
Air potato	Dioscorea bulbifera
Arrow bamboo	Pseudosasa japonica
Brazilian pepper Brazilian waterweed	Schinus terebenthifolius Elodea densa
Catclaw vine Camphor tree	Macfadyena unguis- cati Cinnamomum camphora
Chinaberry	Melia azedarach
Chinese privet	Ligustrum sinense
Chinese tallow tree	Sapium sebiferum
Chinese wisteria	Wisteria sinensis
Japanese cClimbing fern	Lygodium iaponicum and Lygodium microphyllum
Cogon grass	Imperata cylindrica
Coral ardesia	Ardisia iaponica
Coral berry	Ardisia crenata
Elephant's ears	Xanthosoma sagittifolium
Glossy privet	Ligustrum lucidum
Golden raintree	Koelreuteria paniculata and Koelreuteria bipinnata
Golden bamboo	Phyllostachys aurea
Henon bamboo	P. nigra cv. "Henon"
Hyacinth	Eichhornia crassipes
Hydrilla	Hydrilla verticulata
Hygrophia	Hygrophia polysperma
Japanese ardisia	Ardisia iaponica
Japanese honeysuckle	Lonicera japonica
Japanese paper mulberry	Brousonettia papyrifera
Kudzu	Pueraria lobata
Mimosa	Albizia julibrissin
Miramar weed	Hvgrophila polysperma
Oyster plant	Tradescantia spathacea
Palm leaf bamboo	Sasa palmata (Arundinaria palmata)
Skunk vine	Paederia foetida
Tropical soda apple	Solanum viarum
White-flowered small-leaved spiderwort	Tradescantia fluminensis

Wandering spiderwort		
Water hyacinth	Eichornia crassipes	
Wild taro	Colocasia esculenta	

For all new development, or redevelopment of existing property, the h. applicant should be required to shall remove all invasive nonnative plant species listed on the Florida Prohibited Aquatic Plants List or the Florida Noxious Weed List from the property in accordance with the management plan prior to issuance of the certificate of occupancy. On property with invasive nonnative plant species, a plan shall be submitted with the development application that includes a timeline, success criteria, treatment recommendations, and identifies methods that will have minimal impact on non-target species. All herbicide applications to control invasive, nonnative plants in wetland or upland set-aside areas (including buffers) shall be applied by a contractor licensed by the Florida Department of Agriculture and Consumer Services, Division of Agricultural Environmental Services, with a current certification in Natural Areas Weed Management. The city manager or designee should inspect such sites for a minimum of three years after completion to verify effectiveness of control efforts. The plan shall state the entity responsible for additional treatments during the three-year follow-up if the populations of invasive nonnative plants rebound and cover more than 10 percent of any previously infested area within the wetland or upland set-aside areas.

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> i. <u>Loblolly and slash pines should be at least 25 feet apart post-development</u> to reduce southern pine beetle infestation outbreaks.

25 Sec. 30-252. Landscaping requirements for vehicular use areas.

(a) Generally. This section provides two landscaping methods which are intended to set
 minimum requirements for the landscaping of vehicular use areas. Method 1 addresses
 shading by specifying landscape placement throughout and around the vehicular use area.
 Method 2 provides flexibility in the design of vehicular use area landscaping in order to
 accommodate unique site considerations. Method 1 shall be used for the purpose of
 calculating landscaping requirements for excess parking as regulated in Article IX.

- 34 (b) Method 1, Prescriptive Landscape Requirement.
 - (1) Perimeter requirements.
- 38a.Perimeter landscaped area required. All vehicular use areas shall be39separated by a perimeter landscaped area, a minimum of nine feet in40width, from any public or private street right-of-way and from any

1		adjacent properties. boundary of the property on which the vehicular use
2		area is located.
3		
4	b.	Exceptions. This landscape area is not required:
5		
6		1. When the paved ground surface area is completely screened from
7		adjacent properties or streets public rights of way by intervening
8		buildings or structures <u>; or</u>
9		
10		2. When an agreement to operate abutting properties as essentially
11		one contiguous parking facility is in force, and both sites are in
12		compliance with vehicular use area landscaping requirements. The
13		agreement shall he executed by the owners of the abutting
14		properties, and shall bind their successors, heirs and assigns. Prior
15		to the issuance of any building permit for any site having such a
16		contiguous parking facility, the agreement shall be recorded in the
17		public records of the county.;
18		
19		3. When the paved area is at least 150 feet from the nearest property-
20		line; or
21		
22		4. When the required landscape strip would be in conflict with utility
23		installations, and such conflicts cannot be resolved, such areas may
24		be reduced to five feet and planted with shrubs and such understory
25		trees as may be acceptable to the utility.
26		
27	с.	Location of perimeter landscape area. The landscape area shall commence
28		within five feet of the paved surface area, except that when a grass parking
29		area is provided the landscaped strip may be located around such area.
30		Where the perimeter landscape area and a required buffer strip overlap, the
31		more stringent requirements shall be applied, except that the street buffer
32		requirements shall be applied to street frontages not to exceed 300 feet for
33		properties in use for auto sales. For automotive sales uses, the perimeter
34		landscape area shall only be required for 300 feet along each street
35		frontage in the area devoted to automobile display, with the remainder of
36		the required plant materials being proposed for planting elsewhere on the
37		site, such as around stormwater areas or the building foundation. Perimeter
38		landscape areas buffering shall be required for all storage, accessory
39		service and customer parking areas at any auto sales facility.
40		
41	d.	Modification of requirements. The development review board or the plan
42		board, through plan review, or the board of adjustment by special
43		exception, or staff, when only staff review is required, may determine that:
44		and the second stands a

1 2		1.	Screening is better achieved by relocation of the landscape strip;
3		2.	There is an unresolvable conflict between other element(s) of the
4			development plan and the location, width or height of the
5			perimeter landscape area, and that the public interest is therefore
6			best served by relocation of the landscape area, lowering the height
7			of required material or the substitution of a solid fence or wall in
8 9			conjunction with a reduction in width provided that the number of
9 10			shade trees that would have otherwise been required are planted elsewhere on the development site; or
11		3.	That the screening would only serve to emphasize a long driveway
12			that would otherwise be unobtrusive. On redevelopment sites
13			where the conflict between existing utility line separation
14			distances and the shade trees required within the perimeter
15			landscaped area cannot be resolved through the practices listed in
16			Sec. 30-251(1)(b), then the area shall be planted with shrubs and
17			understory trees acceptable to the utility company. On projects
18			where new utility lines are planned, sufficient space shall be
19			allocated to meet both the utility separation requirements and the
20			minimum tree-planting requirement.
21	e.	Requi	red plant material. The perimeter landscape area shall contain:
22		1.	Shrubs, arranged to provide a visual screen of 75 percent opacity
23			and achieve a height of at least three feet within three years; and
25			
24		2.	At least one shade tree planted for each 50 linear feet, or part
24 25		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality
24 25 26		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet
24 25 26 27		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the
24 25 26 27 28		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance
24 25 26 27 28 29		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be
24 25 26 27 28		2.	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance
24 25 26 27 28 29		2. <u>3.</u>	At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development
24 25 26 27 28 29 30			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine
24 25 26 27 28 29 30 31 32 33			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties
24 25 26 27 28 29 30 31 32 33 34			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation,
24 25 26 27 28 29 30 31 32 33 34 35			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation, including understory plants and bushes, is protected from pruning
24 25 26 27 28 29 30 31 32 33 34 35 36			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation, including understory plants and bushes, is protected from pruning and removal except that diseased plant material and invasive
24 25 26 27 28 29 30 31 32 33 34 35 36 37			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation, including understory plants and bushes, is protected from pruning and removal except that diseased plant material and invasive nonnative species <u>shall may</u> be replaced in accordance with this
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation, including understory plants and bushes, is protected from pruning and removal except that diseased plant material and invasive nonnative species <u>shall may</u> be replaced in accordance with this section. Where the property is adjacent to a railroad right-of-way or
24 25 26 27 28 29 30 31 32 33 34 35 36 37			At least one shade tree planted for each 50 linear feet, or part thereof, of the boundary of the vehicular use area. High quality shade trees at a minimum average of three trees for every 100 feet of the linear distance of the perimeter landscape area, excluding the width of driveways that cross the landscape area. The distance between such trees shall not exceed 55 feet nor shall they be planted closer than 25 feet apart. The development review board or plan board during development plan review, or staff during administrative review, may determine that natural vegetation is sufficient to screen adjacent properties and rights-of-way. In such instance the existing vegetation, including understory plants and bushes, is protected from pruning and removal except that diseased plant material and invasive nonnative species <u>shall may</u> be replaced in accordance with this

1		encroachments are made for utility connections, replacement
2		plants appropriate to the ecosystem shall be required.
3	(2)	Interview low deserved servers. The interview of any webievelow uses area shall also be
4		Interior landscaped areas. The interior of any vehicular use area shall also be
5		landscaped in compliance with the following except as provided in subsection
6		(b)(2)e. of this section:
7		
8		a. The placement of landscaped areas throughout the interior of the paved
9		area shall average one landscaped island for each ten parking spaces.
10		Landscape islands, equal to the size of one parking space, shall be located
11		at an average of every ten parking spaces. At no time shall a row of
12		parking have landscape islands areas greater than 126135 feet apart or
13		closer than <u>3635</u> feet apart. <u>Additionally, terminal landscape islands</u>
14		containing a tree shall enclose each row of parking spaces.
15		b. Each required landscape island interior landscaped area shall contain at
16		least one high quality shade tree listed on the gainesville tree list as a
17		species appropriate for 'lot' planting. Such tree(s) shall be located within
18		the landscaped area of at least 140 square feet to maximize the shading of
19		the pavement.
20		c. <u>All parking lots with two or more rows of interior parking shall contain 8-</u>
21		foot-wide landscape strips between the rows allowing for 2-foot vehicle
22		overhangs on each side. Shade trees, shall be planted every 50 feet on
23		average within these landscaped areas, but outside of the 2-foot vehicle
24		overhangs. As an alternative, every other row of head-to-head parking
25		may provide a 16-foot-wide curbed landscape strip with shade trees every
26		35 feet on average. As needed, these wider landscape strips may contain
27		sidewalks.
28		e.d. The development review board or plan board through development plan
29		review, or staff when only staff review is required, may allow the
30		relocation of such interior landscaped areas to preserve existing trees, or
31		where it is determined, upon review and recommendation of the city
32		manager-s or designee, that the relocation is necessary for the safe
33		maneuvering of vehicles or pedestrians.
34	3	d.e. In those vehicular use areas including but not limited to auto dealerships.
35		storage of service or delivery vehicles, or attendant parking where interior
36		landscaping would interfere with the customary storage or display of
37		vehicles, the development review board or plan board through development
38		plan review, or staff, when only staff review is required, may allow some
39		or all of the required interior landscaping to be located near the perimeters
40		of the paved area, including such perimeters which may be adjacent to a

.....

1	building on the site. Such landscaped area would be in addition to required
2	perimeter landscaping in the amount of one square foot of landscaped area
3	for each 60 square feet of paved area. For each 140 square feet of
4	relocated landscaped area, a <u>high quality</u> shade tree or <u>understory tree</u>
5	shall be provided.
6	e. Any parcel of land or lot, which has fewer than 11 interior parking spaces,
7	shall be exempt from the above requirements when it is used for industrial
8	or warehouse purposes in the MU 2 mixed use medium intensity district,
9	CCD central city district, W warehousing and wholesaling district, I 1
10	limited industrial district, and I-2 general industrial district.
11 12 13 14 15	(c) Method 2, Performance Landscape Requirements. Method 2 requires that at least 50 percent of the vehicular use area be shaded. Alternative landscaping objectives are provided that can reduce the required amount of tree shade that must be provided in the vehicular use area.
16	(1) Method 2 is encouraged in the following circumstances:
17	a. The site contains unique geologic features or a tree grouping which may
18	be adversely impacted if the requirements of Method 1 are adhered to;
19 20 21	b. The preservation and enhancement of cultural, architectural or historical elements on the site would be better achieved by Method 2; or
22	c. The design proposes a unique design element that serves as a focal point, a
23	site unifier, or as an element which articulates a specific portion of the
24	development and cannot effectively be integrated into the overall design
25	through the use of Method 1; or the design of on-site stormwater facilities
26	requires greater flexibility in the arrangement of landscaped areas.
27	(2) Method 2 requirements.
28 29 30 31 32	a. The vehicular use area shall be planted with trees sufficient to shade 50 percent of the total vehicular use area. Tree types shall not be substituted except as would maintain the required shading. Shrubs, ground cover and trees shall be chosen and arranged to conform with the guidelines of subsection 30 251(7).
33	b. Landscape plans for Method 2 shall be prepared by a landscape architect
34	registered in the State of Florida, the property owner or a nurseryman, in
35	compliance with F.S. § 481.301 et seq.
36	c. <u>All landscape plans shall be accompanied with calculations and shadow</u>
37	studies in order to evidence 50 percent coverage of the interior of the
38	vehicular use area, or meet alternative landscaping requirements as in

1 2	subsection 30-252(c)(3) of this section. In determining the area shaded, the following methodology shall be used:
3 4 5 6 7	1. Calculate the proposed shading of pavement assuming that the shaded area is only that area directly under the tree canopy or dripline. The estimated crown for a twenty-year old parking lot tree, shown in the Gainesville Tree List shall be used to calculate the percent of shaded area.
8 9	 Landscaped areas within the vehicular use area containing trees shall be counted in the calculation of shaded area.
10 11 12	3. Paved areas under structures (such as second stories of buildings, canopies, etc.) may be deducted from the total paved area to be shaded.
13 14 15 16	d. Alternative landscaping in lieu of the 50 percent shading requirement (see subsection 30-252(c)(3) of this section) must be listed and drawn to scale on the landscape plan, and shall meet no more than 20 percent of the vehicular use area requirement.
 17 18 19 20 21 22 23 24 25 26 	e. When shade trees are planted on the perimeter of a parking area, they must be planted no closer than four feet and no farther than nine feet from the edge of the pavement, and must provide shade to either the parking area, the primary structure or an adjacent pedestrian area. If an existing tree is used to fulfill shading requirements, it should be in the vehicular use area, or within nine feet of the vehicular use area; however, a tree located further from the vehicular use area may be counted towards the fulfillment of the shading requirements, provided city staff finds that the tree casts shading equal to the minimum canopy of any parking lot tree on the Gainesville Tree List, onto the vehicular use or pedestrian areas.
27 28 29 30	f. When any portion of a vehicular use area is not screened by buildings or required street buffer and is within 50 feet of a property line or a public right of way, a perimeter landscaped area or vegetated berm shall be provided so as to effectively screen any adjacent property or right-of way.
31 32 33	(3) Alternative landscaping requirement in lieu of fifty percent shading requirement. A reduction to 30 percent shading of the vehicular use area may be allowed by combination of any two of the following three alternatives:
34 35	a. Vehicular use area located on the north side of a structure, on the same lot, and receives 50 percent shading in the afternoon by the structure.
36 37 38	b. Preservation of tree groupings in an amount of at least 1,000 square feet or 25 percent of the square footage of the groupings, whichever is greater.
39 40	c. Preservation of existing wetlands that are not otherwise protected from encroachment by Article VIII or other federal, state, regional or local

1	regulations. A transitional buffer, having a minimum width of 15 feet,
2	shall be provided. The total area so preserved shall have a minimum size
3	of 1,000 square feet. The petitioner shall present competent evidence that
4	such area is a viable wetland.

5 Sec. 30-253. Landscape buffer requirements for buffer strip areas. Compatibility buffers.

6 This section is intended to provide the minimum requirements for separation of land uses of differing type and intensity, and for the provision of aesthetic streetscapes conducive to 7 pedestrian and bicycle traffic throughout the city. The need for a buffer strip between land uses 8 shall not impede the development of appropriate pedestrian and bicycle accessways between 9 these uses. Where such accessways are installed, they shall be landscaped in a manner to clearly 10 delineate such trails and bikeways and also to provide shade trees as appropriate. Where certain 11 uses or combinations of uses are difficult to categorize, as in planned developments or public 12 service facilities, it is the intent of this section that buffering shall be provided which mitigates 13 the impacts of such uses. 14

18 land use designation of the subject property which is being developed and the land 19 use designations of the abutting properties. The required width of the each buffer 20 type and the required amount of shade trees, understory trees, and shrubs are shown i 21 Chart B below. 22 a. Buffer strips between properties are intended to provide a visual screen, to 24 prevent undesirable access to surrounding properties, and to provide sound 25 attenuation. 26 1. The required buffer type, depicted on the adjacent use buffer 27 1. The required buffer type, depicted on the adjacent use buffer 28 matrix (A through E) as shown below, depends on the propose 29 use of a site and the adjacent use. The buffer type sets the required 31 owner/developer may choose width options X, Y or Z within th 32 required buffer type as indicated on the matrix.	15	(1) Required buffer strip areas. Buffer strips between properties are intended to provide
18 land use designation of the subject property which is being developed and the land 19 use designations of the abutting properties. The required width of the each buffer 20 type and the required amount of shade trees, understory trees, and shrubs are shown in 21 Chart B below. 22 a. Buffer strips between properties are intended to provide a visual screen, to 23 a. Buffer strips between properties are intended to provide a visual screen, to 24 prevent undesirable access to surrounding properties, and to provide sound 25 attenuation. 26 1. 27 1. 28 matrix (A through E) as shown below, depends on the propose 29 use of a site and the adjacent use. The buffer type sets the required 30 width and plant materials to be shown on the landscape plan. Th 31 owner/developer may choose width options X, Y or Z within th 32 required buffer type as indicated on the matrix. 33 34 34 2. 35 The buffer matrix specifies the number of plant combination 36 37 37 3. 38 38 39 CHAR	16	visual screening and sound attenuation of more intense land uses from abutting less
19 use designations of the abutting properties. The required width of the each buffer 20 type and the required amount of shade trees, understory trees, and shrubs are shown i 21 Chart B below. 22 a. Buffer strips between properties are intended to provide a visual screen, to 23 a. Buffer strips between properties are intended to provide a visual screen, to 24 prevent undesirable access to surrounding properties, and to provide sound 25 attenuation. 26 1. The required buffer type, depicted on the adjacent use buffer 27 1. The required buffer type, depicted on the adjacent use buffer 28 matrix (A through E) as shown below, depends on the propose 29 use of a site and the adjacent use. The buffer type sets the require 30 width and plant materials to be shown on the landscape plan. Th 31 owner/developer may choose width options X, Y or Z within th 32 required buffer type as indicated on the matrix. 33 34 34 2. The buffer matrix specifies the number of plant combination 35 required per 100 linear feet. 36 37 38 38 39 CHART A. ADJACENT USE BUFFER AND STREET BU	17	intense land uses. The required buffer type, shown in Chart A below, depends on the
20 type and the required amount of shade trees, understory trees, and shrubs are shown i 21 Chart B below. 22 a. Buffer strips between properties are intended to provide a visual screen, to 23 a. Buffer strips between properties are intended to provide a visual screen, to 24 prevent undesirable access to surrounding properties, and to provide sound 25 attenuation. 26 1. 27 1. 28 matrix (A through E) as shown below, depends on the propose 29 use of a site and the adjacent use. The buffer type sets the require 30 width and plant materials to be shown on the landscape plan. Th 31 owner/developer may choose width options X, Y or Z within th 32 required buffer type as indicated on the matrix. 33 34 34 2. 35 The buffer matrix specifies the number of plant combination 36 37 37 3. 38 39 CHART A. ADJACENT USE BUFFER AND STREET BUFFER MATRIX	18	land use designation of the subject property which is being developed and the land
21 Chart B below. 22 a. Buffer strips between properties are intended to provide a visual screen, to 23 a. Buffer strips between properties are intended to provide a visual screen, to 24 prevent undesirable access to surrounding properties, and to provide sound 25 attenuation. 26 1. 27 1. 28 matrix (A through E) as shown below, depends on the propose 29 use of a site and the adjacent use. The buffer type sets the require 30 width and plant materials to be shown on the landscape plan. Th 31 owner/developer may choose width options X, Y or Z within th 32 required buffer type as indicated on the matrix. 33 34 34 2. 35 The buffer matrix specifies the number of plant combination 36 37 37 3. 38 39 CHART A. ADJACENT USE BUFFER AND STREET BUFFER MATRIX	19	use designations of the abutting properties. The required width of the each buffer
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 38 39 CHART A. ADJACENT USE BUFFER AND STREET BUFFER MATRIX 	36	
39 CHART A. ADJACENT USE BUFFER AND STREET BUFFER MATRIX	37	3. Adjacent use buffer and street buffer matrix.
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		CHART A. ADJACENT USE BUFFER AND STREET BUFFER MATRIX

	Adjacen	t Designated	Use					
Proposed Activity	Single- Family/ Two- Family	Multifamily	Mobile Home Park	Office Education	Commercial/ Mixed Use	Industry/ Mixed Use	Nonconforming*	Street Buffer Yards
Single-family Two-family	-	_	-		-	_	-	
Multifamily	B	A	A	A	e	e F	B	B
Mobile home	B	A	A	A	e	Ð	B	₽
Office, education, assembly use	e	B	A	_	A	E	B	E
Commercial, mixed use	e	e	e	A		E	C	E
Industrial	Ð	Ð	Ð	Ē	Ę	_	Ð	Ē

2 *Nonconforming: Indicates buffer to be provided by proposed use due to nonexistent or

3 nonconforming buffer on adjacent-site.

4 Letters in adjacent use buffer and street buffer matrix relate to buffer types in Chart B.

5 Street buffer: Petitioner may use shade tree or understory tree requirement, except as limited by

6 prudent-utility practice.

7 CHART B. BUFFER TYPE MATRIX

8

		Number and ' Feet	Fype of Plant N	Aaterial Require	ed For 100 Linea
Buffer Type	Width (feet)	Shade Tree	Understory Tree	Large Shrub	Small Shrub
Buffer A:					
Option Y	-9	2	3	15	8
Option Z	15	1	2	10	5
Buffer B:	•				
Option X	9	3	4	25	θ
Option Y	-15	2	3	20	- 0
Option Z	-20	2	2	15	0
Buffer C:	2010				
Option X	9(W)	2	3	-0	- 0

Option Y	15	3	4	15	-8	
Option Z	20	2	3	12	-6	
Buffer D:						
Option Y	50	3	4	25	10	
Option Z	100	2	2	15	-6	2
Buffer E:						
Option Y	9	3	2	8	13	
Option Z	-15	3	2	5	-6	

Legend:

TT 7" 1.1	CTM .	and a second fragment of	. 1.1	0.1	1 00	0.5000000000000000000000000000000000000
M/1dth.	ho r	anurad	math	of the	huttor	otrin
Width:	THET	equireu	WIGHT	or the	Dunor	Juip.

2 3 4

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1

W: Indicates a wall or fence is required.

Option: Petitioner may choose width option; however, when commercial, mixed use, or industrial activities are adjacent to single-family, two-family, multifamily or manufactured home uses, the applicable reviewing board or staff may determine that, in addition to the trees and shrubs specified above, a wall is required to mitigate the effects of certain uses or to control access.

10 11

CHART A.	LAND	USE	BUFFER	TYPES
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12							
Image: red black state FUTURE LAND USE DESIGNATION Abutting property→ Subject property ↓	Single Family Res. Low	Res. Medium Res. High MU Residential Office	MU Low MU Medium MU High UMU 1 UMU 2	Commercial Business Ind.	Industrial	Education Recreation Public Facilities	Agriculture Conservation
Single Family Residential Low	-	-	F	-	-	-	А
Res. Medium Res. High MU Residential Office	A	1255	94 1	-	•	A	A
MU Low MU Medium MU High UMU 1 UMU 2	В	А	-	-	-	А	В
Commercial Business Ind.	С	В	Α	-	-	В	С
Industrial	С	С	С	В	-	С	С
Education Recreation Public Facilities	A	A	-	-	-	-	A
Agriculture	-					L=	-

Petition No. PB-10-7-TCH

CODE: Words stricken are deletions; words underlined are additions.

<u>CH</u>	ART B. REQUIRED	WIDTH AND PLAN	TINGS FOR BUFFEF	<u>R TYPES</u>				
BUFFER TY	PE MINIMUM WIDTH	SHADE TREES (per 100 linear feet)	UNDERSTORY TREES (per 100 linear feet)	SHRUBS (per 100 linear feet)				
A	9'	2	2	20				
В	9'	3	2					
C	15'	3	3	25				
(2)	Buffer widths. The a							
	may require the expan							
	trees will meet sepa	15 BR 55	14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1000 000 000 000 000 000 000 000				
	areas, or to allow for	r the inclusion of an	existing high-quality	shade tree in th				
	<u>buffer strip.</u>							
4. <u>(3)</u>			· · · · · · · · · · · · · · · · · · ·					
	facilities that cross the	facilities that cross through a required buffer shall be subtracted from the linear						
	feet of buffer length	feet of buffer length for the purposes of calculating the number of required						
	plantings in Chart B a	ibove.						
(4)	Existing trees and r	natural vegetation in	<u><i>buffers</i></u> Any shad	e regulated, hig				
<u>(4)</u>								
<u>(4)</u>	Existing trees and r quality shade trees e protected in accordan	xisting within the mi	nimum required buff	fer width shall b				
<u>(4)</u>	quality shade trees en protected in accordan	xisting within the mine with section 30-2	nimum required buff 55. Credit for <u>preserv</u>	fer width shall b ving existing tree				
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1	during development plan approval, or staff through administrative
2	review when board approval is not required, may approve the
3	substitution of a fence or hedge for a required wall.
-	substitution of a tende of nedge for a required wait.
4	b. Street buffer yards are located along public rights of way. The required
5	width of street buffer yard and amount of plant material, per 100 linear
6	feet, are determined by the proposed land use (see buffer matrix above).
7	Street buffer yards are not required when buildings abut the right-of-way;
8	however, if the right of way can be landscaped, the required trees shall be
9	planted provided the city manager or designee, or the agency having
10	jurisdiction over the right of way, approves. In zoning districts where the
11	required street buffer yard is greater than the required setback, the street
12	buffer yard may be decreased by the amount necessary for placement of
13	the building at the required setback. If a building is placed beyond the
14	required setback, the required street buffer yard shall be equal to the
15	building setback. When required landscaping cannot be provided in the
16	street buffer area, required trees and landscape material-shall be planted
17	within the right of way subject to approval by the city manager or
18	designee, or the agency having jurisdiction over the right-of-way. Where
19	street buffer yards overlap buffer strip areas which are required to satisfy
20	vehicular use area requirements, the screening provided shall at a
21	minimum satisfy the requirements for vehicular use areas.
22	(2) Conditions for implementation of buffer strip.
23	a. Utility easements cannot be used as a substitute for the required buffer
24	strip between residential zoning districts, or between residential and
25	nonresidential zoning districts as classified in section 30-41. No shade tree
26	shall be planted within 12 feet of a buried utility conduit. Easements for
27	overhead wires shall require-the relocation of required shade trees or-
28	substitution of trees acceptable to the utility.
29	(3) Reserved.
30	(4) (6) Sound attenuation. The development review reviewing board, or city manager or
31	designee, may address the need for sound attenuation of certain equipment, such as
32	refrigeration units, motors, fans, power tools, etc., or uses such as loading, vehicle
33	repair, outdoor recreation, etc., by requiring a study, prepared by a licensed
34	engineer or architect, to address the potential for noise disturbance to be
35	transmitted to adjacent properties by the proposed use, and providing
36	recommendations for mitigation or by requiring may require the installation of a
37	well forme on home in addition to the negwined landscare metanial. The well forme
	wall, fence or berm in addition to the required landscape material. The wall, fence
38	or berm may be located within the required buffer or directly around the equipment
38 39	

Exceptions to the buffer strip requirement. 1 (5)No new wall, fence or berm shall be required on property where the 2 a. adjoining or subject property contains an existing wall or fence meeting the 3 requirements of this section, provided that the existing wall is located no 4 more than 20 feet from the property line, and provided further, that no 5 outdoor use on the subject property extends above the height of the existing 6 wall or buffer strip. 7 No new wall, fence or plant material shall be required where the 8 b.____ development review board through development plan review, or the city 9 manager or designee if development plan review is not required, 10 determines that existing natural vegetation to be retained on-site is 11 sufficient to screen adjacent properties or public rights of way. The same 12 shall be true if the distance between the developed area and the nearest 13 property line is at least one hundred fifty (150) feet and is determined to 14 15 sufficiently screen adjacent properties or public rights-of-way. 16 Section 6. New Sections 30-253.1 and 30-253.2 are created and added to Article VIII. 17 Environmental Management, Division 2. Landscape and Tree Management, Stormwater 18 19 Management and Water/Wastewater Connection Policies, Subdivision I. Landscape and Tree Management to read as follows: 20 21 22 Sec. 30-253.1. Street landscaping. 23 (a) Street trees. Street trees shall be planted along the sides of all streets within a development 24 and on the development side of any contiguous street. Street trees shall be planted for 25 every 30 to 50 feet of street frontage, depending on the canopy area needed for the tree 26 species. The widths of driveways along a street shall be subtracted from the linear feet of 27 street frontage length for the purposes of calculating the number of required street trees. 28 In no case shall trees be spaced closer together than 25 feet or farther apart than 60 feet. 29 Alleys are exempt from this requirement for street trees. 30 31 32 (1) Street trees shall be high quality shade trees and shall be planted in tree lawns with a minimum width of 8 feet, or within tree wells with minimum 4-foot by 4-foot surface 33 openings. 34 35 a. On-street parking spaces may be located between street trees, as long as the 36 required number of trees are planted along the street frontage, and the minimum 37 rootzone volume is provided for each tree. 38 39 b. Tree wells may be enclosed with pavers or other hardscape materials above the 40 required rootzone volume. The city manager or designee may determine if 41 installation of an aeration system is necessary to conduit water and oxygen to the 42 roots of trees within tree wells. 43

1 2 3 4 5 6 7 8 9 10	 (2) Where possible, street trees shall be planted between the street and the public sidewalk. Street trees may be planted between the sidewalk and adjacent buildings only where the location of existing or proposed utility lines along the street, or the clear zone requirements of the public works department or other maintaining agency prevent the location of trees between the street and sidewalk. Where street trees are approved to be planted between the sidewalk and adjacent buildings, the trees may located as close as 5 feet away from building face. (3) The reviewing board, or the city manager or designee, may require the adjustment or other maintained between the street or designee. 	<u>be</u>
11	the prescribed build-to line in order to accommodate the required street trees and	Ŧ
12 13	ensure that the trees will meet separation requirements from utility lines, buildings,	
13	and paved areas.	
14 15	(4) Where possible, developments shall be designed to preserve as street trees any	
16	existing champion or high quality heritage trees which are located in the right-of-wa	X 7
17	or on private property within 20 feet of the right-of-way. Where these trees are	Y
18	preserved, no new construction or grading shall occur within the tree root plate, and	
19	new buildings shall be designed so that no more than 25 percent of the crown of the	
20	trees is removed. The area underneath the canopy of the preserved trees shall be	
21	exempt from tree planting requirements, and the required distances between street	
22	trees may be modified.	
23		
24	(5) A minimum 10-foot separation shall be provided between street trees and street	
25	stormwater inlets, except where bioretention inlets that incorporate trees are utilized	<u>.</u>
26		
27	(6) Where the required street trees would overlap with trees that are required to satisfy	
28	perimeter landscaping requirements for vehicular use areas, only the requirements for	<u>)r</u>
29	the vehicular use area must be met.	
30		
31	(b) Parking structures along a street. Except at points of ingress and egress, parking	1
32	structures shall provide a 10-foot-wide landscaping strip between the public sidewalk ar	<u>10</u>
33 34	the structure, which is designed to screen automobiles from pedestrians on the street. This strip shall be planted with evergreen shade trees at an average of four trees for ever	* 7
34 35	100 feet of the linear distance of the street frontage of the structure, excluding the width	
36	driveways. The required trees shall be supplemented with a continuous line of shrubs.	<u> </u>
37	This landscaping strip is required when the ground floor use is parking, but is not required	ŧ
38	where parking structures are shielded from the street by liner buildings or provide office of	
39	commercial uses along the first floor street frontage.	
40		
40 41	Sec. 30-253.2. Landscaning of stormwater management areas.	
40 41	Sec. 30-253.2. Landscaping of stormwater management arcas.	
41	Sec. 30-253.2. Landscaping of stormwater management areas. (a) All stormwater basins shall be designed and landscaped to meet the following criteria:	

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CODE: Words stricken are deletions; words underlined are additions.
1 (1) Shade trees shall be planted at an average of one tree for every 35 linear feet of the basin perimeter. Spacing of trees may be closer when trees are planted in groups for 2 aesthetic effect, but the minimum distance between the trees shall be 10 linear feet. 3 Trees shall be selected from the Gainesville tree list that are appropriate for use 4 5 within stormwater areas, and all landscaping shall be selected according to the function as a wet or dry basin. Trees shall be located at least 20 feet away from 6 inflow and outflow structures. Bioretention swales and exfiltration facilities are 7 exempt from these tree planting requirements. 8 9 (2) Twenty-five percent or more of the basin perimeter or littoral zone shall be 10 landscaped with shrubs, groundcover, native perennials, or aquatic plants. 11 12 (b) Individual stormwater basins that are greater than 5,000 square feet in total area shall be 13 designed with curvilinear sides that mimic a natural wetland, lake, or stream. The 14 15 landscaping for these basins shall be integrated with the other required site landscaping. 16 Individual stormwater basins that are greater than 40,000 square feet in total area shall 17 (c) also be designed to meet at least one of the following criteria: 18 19 (1) Provide a recreational or functional pathway for pedestrians or bicyclists and an 20 aesthetic focal point such as a water feature or pedestrian structure; or 21 22 (2) Be designed to preserve and incorporate a significant tree or tree grouping; or 23 24 (3) Be designed to maintain an existing wetland function or to preserve or establish habitat 25 for native animal species. 26 27 Section 30-254 and Section 30-255 of Article VIII. Environmental 28 Section 7. Management, Division 2. Landscape and Tree Management, Stormwater Management and 29 Water/Wastewater Connection Policies, Subdivision I. Landscape and Tree Management are 30 amended as stated below. Except as amended herein, the remainder of Section 30-254 and 31 Section 30-255 remain in full force and effect. 32 33 34 Sec. 30-254. Permits for tree removal; mitigation. 35 36 *Removal or relocation permits.* Except as provided below, no living regulated tree living (a) tree that is eight inches or more in diameter or two feet in circumference, whichever 37 38 dimension is lesser, at a point 41/2 feet above ground level, may be removed or relocated without a removal permit and mitigation as provided for in this section. Only the tree 39 advisory board may approve or deny the removal, relocation or replacement of champion 40 trees. Trees that require such a permit for removal or relocation shall be called "regulated 41 trees." Exceptions to this general provision are as follows: 42 (1) On property with single family residential zoning, permits shall be required only for 43

the removal of champion or heritage trees. Pine trees of the slash or loblolly species

36

1	which are at least 12 inches in diameter or three feet in circumference, whichever
2	dimension is leaser, at a point 4½-feet above ground level, shall be considered regulated
3	trees.
4	(2) Removal of loblolly or slash pines less than 20 inches in diameter from a natural or
5	naturalized landscape shall not require mitigation planting, unless the removals result
6	in a uniform tree density on the site of less than one tree per 900 square feet of
7	unpaved area. Where resulting tree density would be less, sufficient mitigation trees
8	meeting the standard of Sec. 30-257 must be established to achieve the specified
9	minimum density. (2) No Heritage or Champion trees as defined in this article may
10	be removed or relocated except as specifically provided in this article
11	
12	(3) Tree removals for utility operations shall comply with the provisions of Article VIII.
13	Removal of regulated trees in connection with ecosystem management or restoration
14	on parcels with conservation easements, in conservation management areas or on
15	parcels managed as nature parks or preserves, provided the following criteria are met:
16	
17	a. A plan for the removal and revegetation of the area has been approved by the city
18	manager or designee.
19 20	b. The only trees that may be removed are of the following species: Loblolly Pine,
20	Slash Pine, Water Oak, Laurel Oak, Sweetgum, Sugarberry, and any species not
21	native to Alachua County.
22	c. The tree removal is being done in furtherance of restoration of a natural
23	community or communities appropriate to the site as indicated by soils, remnant
24 25	vegetation, and hydrological and geological conditions.
23 26	d. The applicant has demonstrated that after the removals, the land will be maintained in a manner that promotes the continuation of the restored natural
20 27	community.
28	e. The plan has been approved by the nature centers commission.
29	c. The plan has been approved by the nature contens commission.
30	(4) For the immediate protection of the health, safety, or welfare of the public, trees may
31	be removed without obtaining a permit in advance. However, the property owner or
32	its authorized agent must file a permit application during the next city work day.
33	Permit approval shall be granted, provided the trees removed are mitigated in
34	accordance with this code. Trees which eause or that can be demonstrated by
35	competent evidence will in the near future cause, structural damage from roots,
36	absorption of large amounts of water causing soil expansion and contraction, or other
37	structural problems to buildings or underground facilities, may be removed, relocated
38	or replaced with the -approval of the appropriate board for projects requiring board
39	approval or the city manager or designee for other projects. Verification of such claims,
40	when- the damage is apparent - shall be -provided by a statement from an engineer
41	registered in the State of Florida. Verification shall identify the trees causing such
42	structural problems, shall give an explanation of the problem, and shall-bear the
43	embossed seal of the engineer. Such statements of verifications shall be accepted by

T		the plan board or the city manager.
2 3	<u>(b)</u>	<u>Methods of mitigation.</u> Mitigation shall be allowed by two methods, mitigation trees (on an inch-for-inch basis or as otherwise specified) and mitigation payment. The
4		amount of mitigation is as specified in subsections (c) and (d) below.
5		(1) <u>Mitigation trees shall be of high quality shade species as identified on the Gainesville</u>
6 7		tree list, meeting the specifications in Sec. 30-265, and sited in accordance with the requirements of Sec. 30-251(1). The installation of new trees for a development as
8		required by this chapter may count as mitigation for trees removed from the site,
9		except where those removed trees are of a high-quality species. Increasing the
10		diameter of trees required to be planted with a development shall not be used to meet
11 12		mitigation requirements. The preference is for mitigation trees to be planted on the site, but where it is demonstrated that no space is available, mitigation trees may be
12		planted offsite within City limits. In these instances, the required mitigation trees
14		may be established on a different site within the city limits approved by the city
15		manager or designee, or the city manager or designee may allow a payment in an
16		amount to be made to the city tree mitigation fund equivalent to the cost of the trees
17		that would have been purchased.
18		(2) Mitigation payment shall be based on tree appraised value, or as otherwise specified in
19		this code. Payment shall be made prior to the issuance of a certificate of occupancy, or at
20		such other time as specified in a development order. Mitigation payments received by the
21		City shall be deposited in the City tree mitigation fund. This fund may be used for new
22		tree plantings associated with public improvement projects or for the preservation of trees
23 24		through the purchase of conservation lands, but shall not be used for tree maintenance or toward the installation of new trees that would already be required for a development.
24		toward the instantion of new trees that would already be required for a development.
25		Removal and mitigation or relocation of regulated trees subject to subdivision or
26		development plan approval. A separate tree removal permit will not be required in
27 28		conjunction with developments requiring development plan approval by the appropriate board. Plans for tree removal or relocation will be considered and either approved or
28 29		denied as part of the development review process. Construction drawings should be
30		submitted to the building department and application for construction permits made
31		before any trees are removed. After a certificate of occupancy has been issued for a
32		development, any tree removal shall require either a tree removal permit or an approved
33	1	plan amendment. Failure to obtain a permit before removing or relocating a regulated tree
34		shall be subject to the measures for enforcement and replacement specified in section 30-
35		311, pertaining to violations, and the provisions of Article X of this chapter. When tree
36		removal or relocation is contemplated in conjunction with any development requiring
37		approval of a development plan or subdivision plat, such removal or relocation shall be
38		considered and either approved or denied at the same time a development plan or plat is
39 40		approved or denied, based upon the criteria specified in subsection (e) of this section. No
40	<u>i</u>	separate tree removal permit is required. All of the required plans, data or other

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information required with 1	the application sha	all be included or	1 the propose	d development
plan or on the supporting of	documents submit	tted with the plan	n or the plat.	The following
requirements apply:				

- 4 (1) Decisions on tree removal shall be based on a tree survey or a qualitative tree 5 survey. The landscaping plan shall show all trees to be preserved, provide for 6 protective tree barriers that meet the requirements of Section 30-255, and specify 7 the details of the mitigation required in this section.
- 8 (2) Construction drawings shall be submitted to the building department and 9 application for building permits made before any trees are removed.
- 10(3)After a certificate of occupancy has been issued for a development, any additional11tree removal shall require either a tree removal permit or a development plan12amendment. Failure to obtain a tree removal permit before removing or relocating13any existing regulated tree or any tree that was planted to comply with the14approved development plan shall be subject to the measures for enforcement15specified in Sec. 30-311.
- 16 17

- (4) The requirements for mitigation of regulated trees approved for removal as part of development plan or subdivision plat review are as follows:
- 18

CATEGORY	MITIGATION
High quality heritage trees, in fair or better condition	Mitigation payment based on tree appraised value, limited to three trees per acre averaged over the entire site. If more than three trees per acre in this category are located on the site then the trees with the highest tree appraised value throughout the site shall be used to calculate the payment. High quality heritage trees proposed for removal in excess of the overall average of three per acre shall require mitigation trees on an inch-for-inch on a diameter basis.
Heritage trees of other than high quality species, in fair or better condition	Mitigation trees on an inch-for-inch diameter basis.
Any heritage trees in less than fair or better condition; and any other regulated tree	Mitigation trees consisting of two trees of high quality shade species established for each tree removed.

19 (c)(d) Removal and mitigation or relocation of regulated trees not part of subject to subdivision
 20 or development plan approval or in exempt areas as defined in section 30-266. Any

Petition No. PB-10-7-TCH CODE: Words stricken are deletions; words underlined are additions. person desiring to remove or relocate a regulated tree, except tree <u>removal approved as</u> <u>part of subdivision or subject to development plan approval or trees in an exempt area</u>, shall file <u>a tree removal permit</u> with the city manager or designee. As a condition to <u>granting a permit</u>, the applicant shall mitigate each tree being removed. The following <u>requirements apply:</u> an application for a permit. The application shall include or be accompanied by:

- Permit applications shall include the name of the property owner, address from 7 (1)which tree will be removed, tree species and diameter, and reason for removal of 8 9 the tree. The permit application shall be signed by the property owner and, if applicable, its authorized agent. Applications for tree removal shall also include a 10 scaled drawing of the site showing tree size and location, and a statement of how 11 any other regulated trees are to be protected during any approved tree removal 12 and any associated construction or clearing, or grade changes. The city manager 13 or designee shall attempt to verify the information contained in the application 14 and shall either approve or deny the application as to each regulated tree proposed 15 16 to be removed.
- 17 (2) Where construction is associated with the tree removal, construction drawings
 18 shall be submitted to the building department and application for building permits
 19 made before any trees are removed.
- 20 21
- 21
- CATEGORY

(3)

MITIGATION

development plan or subdivision plat review are as follows:

Properties in Single Family Residential Zoning Districts (only heritage trees are regulated)

The requirements for mitigation of regulated trees not associated with

High quality heritage trees, in fair or better condition, wherever they are located on the property.	Mitigation trees on an inch-for-inch diameter basis, with a minimum of two shade trees of high quality species planted on site for each tree removed.
Heritage trees of other than high quality species and high quality heritage trees in less than fair or better condition, wherever they are located between the property lines and legal setbacks.	Mitigation trees consisting of two shade trees of high quality species planted on the site for each tree removed.

Properties in all other Zoning Districts

High quality heritage trees, in	Mitigation payment based on tree appraised value, and
fair or better condition.	mitigation trees consisting of a minimum of two shade
	trees of high quality species planted on site for each tree
	removed.
Heritage trees of other than high	Mitigation trees on an inch-for-inch diameter basis, with a
quality species, in fair or better	minimum of two shade trees of high quality species
condition; and high quality	planted on site for each tree removed.
heritage trees, in fair or better	
condition, which are causing	
structural problems to buildings	
or underground utilities.	
Any heritage trees in less than	Mitigation trees consisting of two shade trees of high
fair or better condition; and any	quality species planted on the site for each tree removed.
other regulated tree.	
(1) An overall developm	nent plan or proportional sketch of the site, easement or right
	the tree is located, showing the shape and dimensions of the
	configuration and size of existing and proposed structures

- site and the location, configuration and size of existing and proposed structures, driveways and other improvements. The plan or sketch shall also identify the location and type of all regulated trees and all major tree groupings on the site that will be impacted by the proposed project. Trees or groups of trees on a site that will not be impacted by the proposed project need not be shown on the plan or sketch.
- 10(2)A designation of any regulated trees proposed to be removed or relocated along11with the reasons for such removal or relocation.
- 12(3)A statement of how any other regulated trees are to be protected during any13approved tree removal or relocation and any associated construction or clearing.
- (4) A statement identifying any proposed grade changes on the site and the precautions to be taken to ensure that such changes will not adversely impact or endanger any regulated trees that are not to be removed or relocated. Spot elevations may be required prior to issuance of construction permits.
- 20 (5) As a condition of the granting of a permit, the applicant will be required to replace
 21 each tree being removed with two replacement trees as adopted by resolution of
 22 the city commission. Two trees will be required for each tree removed that will
 23 reach comparable size at maturity from the Gainesville Tree List.
- 24 (d) Permit approval procedure. The city manager or designee shall, within five working days
 25 of the filing of such applications, attempt to verify the information contained in the
 26 application and either approve or deny the application as to each regulated tree proposed

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to be removed or relocated.

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- (e) Permit approval criteria. Removal or relocation of regulated trees shall be approved by 2 3 the city manager or designee upon a finding that the trees pose a safety hazard; have been weakened by disease, age, storm, fire or other injury; or prevent the reasonable 4 5 development of the site, including the installation of solar energy equipment. Regulated trees shall not be removed, damaged or relocated for the purpose of locating utility lines 6 and connections unless no reasonably practical alternative as determined by the city 7 manager or designee is available. Removal or relocation of a regulated tree may be 8 approved by the reviewing board, city manager or designee based upon one of the 9 following findings: 10
- 11 (1) that the tree poses a safety hazard or has been weakened by disease, age, storm, fire 12 or other injury; or
 - (2) that the tree contains a disease or infestation that could spread to other trees; or
 - (3) that the tree prevents the reasonable development of the site, including the installation of solar energy equipment or the installation or replacement of utility lines; or
 - (4) that the tree is causing or is likely to cause (as evidenced by competent substantial evidence) structural damage or problems to buildings or underground facilities due to excessive root or trunk growth, or soil expansion and contraction caused by uneven water uptake; or
 - (5) should be removed for some other reason related to the public health or welfare. This finding cannot serve as the sole basis for removal of high quality trees.

The city manager or designee may require the applicant to provide verification of the findings in the form of a written report signed and sealed by an appropriate licensed professional within the State of Florida. Regulated trees shall not be removed, damaged or relocated for the purpose of installing, replacing or maintaining utility lines and connections unless no reasonably practical alternative is available, as determined by the city manager or designee. Where a tree may be preserved by cutting the tree roots instead of removing a tree, that strategy shall be preferred.

(f) Removal or relocation approval in conjunction with other approval. When tree removal
 or relocation is contemplated in conjunction with any development requiring approval of
 a development plan or subdivision plat by the development review board or plan board,
 such removal or relocation shall be considered and either approved or denied by the
 development review board or plan board at the same time a development plan or plat is
 approved or denied, based upon the same standards for approval as specified in
 subsection (e) of this section. All of the required plans, data or other information required

1		with the application shall be included on the proposed development plan or on the
2 3		supporting documents submitted with the plat.
4 5 6 7 8 9 10 11 12 13	(g)	Standards for tree relocation or replacement. As a condition of the granting of a permit, the applicant will be required to replace or relocate the trees being removed with suitable replacement trees. Replacement trees will be from the Gainesville Tree List. Two trees will be replaced for every tree removed, except healthy Heritage trees. When healthy Heritage trees are removed, they will be replaced on an inch for inch basis. In determining the required location of relocated or replacement trees that will be planted either on-site or offsite, the city manager or designee, or the development review board or plan board the developments as specified in subsection 30-254(f), shall consider the needs of the intended use of the property together with a realistic evaluation of the following:
14 15		(1) Existing tree coverage, including percentage of canopy.
16 17		(2) Number of trees to be removed on the entire property.
18 19 20		(3) Area to be covered with structures, parking and driveways.
20 21 22		(4) Topography and drainage of the site and its environs.
23 24		(5) Character of the site and its environs.
24 25 26		(6) Ecology of the site.
27 28 29		(7) — Characteristics and amount of shrubs, grass and trees proposed for planting on the site by the applicant.
30 31		(8) The requirements of section 30-260.
32 33		(9) The health and desirability of existing trees.
34 35 36		(10) The impact of features included in the proposed project (e.g., buffer areas, etc.) and areas not to be impacted by the proposed project.
37 38 39 40 41 42	<u>(f)(h)</u>	<i>Natural emergencies or disasters.</i> In the case of natural emergencies or disasters such as hurricanes, windstorms, floods or other disasters, issuances of permits for the removal of damaged trees may be waived by the city manager or designee. Such waiver may not be for an indefinite period and shall expire when the city manager or designee determines that emergency conditions have ended.

- (g)(i) Commercial tree removal permits. Commercial tree removal permits may be granted for
 the removal of trees associated with forestry management, tree harvest and other similar
 commercial purposes in accordance with the requirements of this subsection.
 - (1) *Applicability.* Commercial tree removal permits may be requested in lieu of other tree removal permits required by this section where no development of the property is intended. Where development of the property is planned, the petitioner shall address tree removal within the development plan review or normal tree removal processes:
 - (2) *Permit granting authority.* The city manager or designee, the board of adjustment and the development review board have authority to grant commercial tree removal permits as described below.
- 15 (3) Receipt of request. Owners of property may request the appropriate authority to 16 grant a permit for the commercial removal of trees by filing such an application 17 with the planning and development services department, on forms supplied by the 18 department, together with the appropriate fee. The request shall be accompanied 19 with the following information supplied by the applicant:
 - a. Suitability of the trees for harvest.

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- b. Harvesting methods to be used.
- c. Sedimentation and erosion control measures to be used.
- d. Plan of property showing location of required buffers next to water bodies and property lines and tree canopy to remain as applicable.
- e. Tree protection measures for trees to remain.
- f. Species of trees to be used for replacement.
- Notice. Whenever a property is under consideration for a permit, except any 29 (4)property designated agriculture on the future land use map, all owners of property 30 adjacent to the property shall be given notice by mail. Such notice shall be mailed 31 32 at least 15 days prior to the granting of the permit. For the purpose of this notification, an owner of property shall be deemed to be the person who, by 33 his/her address, is so shown on the tax rolls of the city. If any such property is part 34 of the common area of a condominium, notice shall be sent to all of the 35 condominium unit owners as shown on the latest tax rolls. Additionally, the 36 property under consideration shall also have a sign posted at least five days prior 37 to the date the permit is to be granted. The sign shall specify that the property is 38 under consideration for a permit allowing tree removal for commercial purposes 39 and specify the date the permit is to be granted. 40 41
- 42 (5) *Procedure for review.* If less than 20 percent of the noticed property owners file a 43 written objection to the proposed tree removal within 15 days of the mailing of

the notice, the commercial tree removal permit may be issued provided all other provisions of this section and this chapter have been met.

> a. Parcels of five acres or less, other than property designated agriculture on the future land use map. If 20 percent or more of such noticed property owners file a written objection within 15 days of the date of mailing of the notice, the application will be referred to the board of adjustment for a public hearing according to the notification for special exception procedures as found in article X. The board of adjustment in deciding whether to approve or disapprove the application shall consider the factors delineated in subsections (i)(7) and (8) of this section.

- b. Parcels of more than five acres, other than property designated agriculture on the future land use map. If 20 percent or more of such noticed property owners file a written objection within 15 days of the date of mailing of the notice, the development review board shall hold a public hearing in accordance with its rules. The development review board, in deciding whether to approve or disapprove the application, shall consider the factors as delineated in subsections (i)(7) and (8) of this section.
- c. Parcels designated agriculture on the future land use map. All applications for tree removal on such parcels shall be reviewed by the city manager or designee, who, in deciding whether to approve or deny the application, shall consider the factors delineated in subsections (i)(7) and (8) of this section. Appeals of the decision of the city manager or designee shall be made to a hearing officer. The procedure for the appeal shall be the same as is provided in section 30-352.1(a) for appeals from decisions of the development review board.
- (6) Action on application. Upon receipt of a completed application and following the notice period specified above, or after the permit has been granted after a hearing under subsection (i)(5), the city manager, or designee, will issue the commercial tree removal permit, except as may be modified below, with the following conditions:
 - a. Unless otherwise specified herein, trees will be removed according to best management practices, as specified in the "A Landowner's Handbook for Controlling Erosion from Forestry Operations," published by the state department of agriculture and consumer services, division of forestry, or subsequent manuals on file with the public works department.
- 41 b. No regulated tree shall be removed and no logging road shall be 42 constructed:

- 1. Within 35 feet of the break in slope at the top of the bank of any creek;
 - 2. Within 35 feet of the landward extent of a lake or wetland; or
 - 3. Within a designated conservation management area.

This requirement may be waived where crossing of the creek by a bridge is necessary to access the property where trees are to be removed. Such waiver shall be limited to the area necessary to construct the bridge. For the purposes of this subsection, creeks shall be those identified by the surface water district provisions of article VIII.

- c. Following removal of the trees granted by the permit, the petitioner shall within 18 months provide for reforestation of the site by one of the following means:
 - 1. Where forestry or other agricultural use of the property is to continue in the conservation or agriculture districts, pine seedlings or other forestry or agricultural crops, including pasture, may be planted.
 - 2. Where forestry use is to be abandoned or in districts where it is not a permitted use, replacement of trees shall be required as per section 30-260. This requirement may be waived when an adequate number of trees of appropriate size and species remain on-site to meet this requirement and are certified by the city manager or designee to be in good health and free from damage caused by harvest operation which may result in the death of the tree.
 - d. All invasive nonnative tree species listed in subsection 30-251(7)(g) may be required to be removed from the property.
- (7) *Imposition of additional conditions.* The city manager or designee, board of adjustment or development review board, as appropriate, may impose other reasonable conditions where need is demonstrated. Such conditions may include restrictions on percentage of canopy removed or the prohibition of tree removal from certain portions of the site under consideration. The city manager, board of adjustment or development review board, as appropriate, shall be guided by, but not restricted to, the following criteria in imposing such additional conditions:
- a. The need to provide buffers to adjacent developed property;
- b. The need to protect soils highly susceptible to soil erosion as identified by the soil survey of the county;

- c The need to protect slopes in excess of ten percent, particularly near creeks and other bodies of water;
 - d. The need to protect existing wetlands, floodplains and flood channels and other environmentally sensitive areas as shown on existing maps, photographs and other reliable and available sources; and
 - e. The need to preserve endangered, threatened or special concern animal and vegetative species, habitats and communities, rare hardwood hammocks or champion trees as identified from competent sources.
- (8) Removal of trees specifically planted or managed for harvest. Where environmental and other factors limit the removal of trees on 75 percent or more of the site under consideration, the commercial tree removal permit may be denied. However, factors identified above may not be used to unduly prohibit the harvest of trees where it is demonstrated that the trees to be harvested were specifically planted for that purpose.

20 Sec. 30-255. Tree preservation during development and construction.

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- Barriers required. Prior to clearing, demolition, or other construction activities, the city (a) 22 manager or designee or reviewing board shall determine which trees, if any, require 23 protection. Protective barriers shall be constructed, as necessary, to prevent the 24 destruction or damaging of regulated trees that are located within 5015 feet of any 25 construction activity or storage of equipment and materials. Barrier placements along 26 subdivision streets are regulated in accordance with the provisions of section 30-27 183(e)(2)i. Trees identified for preservation which are destroyed or receiving major 28 severely damaged shall be mitigated in accordance with section 30-254 replaced before 29 prior to issuance of a certificate of occupancy or use, if such certificate is required, 30 unless approval for their removal has been granted under permit. The city manager or 31 designee shall determine which trees, if any, require protection or replacement. To avoid 32 conflicts between barrier placements and demolition and construction activities, barriers 33 shall be drawn to scale on the demolition, grading and paving sheets of the development 34 plan. 35
- Barrier zones. All regulated trees in areas of demolition or construction that have not
 been permitted nor not designated for removal may be required by either the terms of the
 permit or approved development order shall be protected to be protected by barrier zones
 erected and inspected prior to construction of any structures, road, utility service or other
 improvements, Barricades shall comply with the following: and may be required by the
 terms of the permit to comply with the following if determined to be necessary by the city
 manager or designee:

- (1)Protective barriers shall be plainly visible and shall create a continuous boundary 1 around trees or vegetation clusters in order to prevent encroachment by 2 machinery, vehicles or stored materials. To further protect tree roots, a layer of 3 wood chips at least 8 inches thick shall cover the soil within the barricade. 4 Barricades must be at least three feet tall and must be constructed of either 5 wooden corner posts at least two by four inches buried at least one foot deep, with 6 at least two courses of wooden side slats at least one by four inches with colored 7 flagging or colored mesh attached, or constructed of one-inch angle iron corner 8 posts with brightly colored mesh construction fencing attached. High quality 9 heritage trees shall be protected by galvanized chain link fencing a minimum of 10 48 inches high, 11-gauge wire, 2 inch mesh size secured with 1-7/8 inch line posts 11 no further than 10 feet apart secured at a depth of 3 feet below soil line. Corners 12 13 shall be secured with 2-3/8 inch line posts secured to a depth of 4 feet below soil line. 14
 - (2) Barriers shall be placed at the greater of the following as follows:
 - a. At or outside the dripline for all Hheritage and Cchampion trees and all regulated pine and palm trees.
 - b. At a minimum of two-thirds of the area of the dripline for all other regulated species.; or
 - c. At the tree root plate.

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- (3) If complying with the above placement of barriers is found to unduly restrict development of the property, the city manager or designee, or the appropriate reviewing board may approve alternative barrier placements or methods of protection provided that at least 50 percent of the area under the canopy dripline remains undisturbed (no grade change or root cut) and further provided that there shall be no disturbance to the tree root plate. Protective barriers may not be removed or relocated without such approval.
- (4) No grade changes shall be made within the protective barrier zones without prior
 approval of the city manager or designee. Where roots greater than one inch in
 diameter are damaged or exposed, they shall be cut cleanly and re-covered with
 soil within one hour of damage or exposure.
- (5) Protective barriers shall remain in place and intact until such time as landscape
 operations begin<u>- or construction needs dictate a temporary removal that will not</u>
 harm the tree. If construction needs dictate a temporary removal (for less than 24
 hours), the city manager or designee, may approve or deny the temporary removal
 of protective barriers.
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- 1 (6) Landscape preparation in the protected area shall be limited to shallow discing of 2 the area. Discing shall be limited to a depth of two <u>4</u> inches unless specifically 3 approved otherwise by the city manager or designee. or the plan board, as 4 applicable.
 - (7) No building materials, machinery or harmful chemicals shall be placed within protective barriers defined in subsection (b)(2) of this section, except short-duration placements of clean fill soil that will not harm the tree. Such short-duration placements shall not exceed <u>7</u> 30 days. <u>The city manager or designee shall be notified of the dates the short duration placement will begin and end.</u> The original soil grade that existed within the protected areas prior to the placement of such fill shall be restored.
- The "Tree Protection Manual for Builders and Developers," as published by the (8) 14 state department of agriculture and consumer services, division of forestry 15 (October 1980 edition), the standards of the National Arborist Association, The 16 American National Standards Institute A-300 Part V: Management of Trees and 17 Shrubs During Site Planning, Site Development, and Site Construction or other 18 nationally recognized arboricultural standards approved by the city manager or 19 designee may shall be used as guidelines for tree protection, planting, pruning and 20 care during development and construction. 21
- 22 (c) Attachments to trees prohibited. No attachments or wires other than those of a protective
 23 and nondamaging nature shall be attached to any tree.
- (c) <u>Preservation generally.</u> Trees may be preserved on development sites in locations where
 a new tree would be required. Credit for the preservation of such a tree will be given if
 the requirements listed below are met. During construction, if the requirements are not
 being met and/or the preserved tree is unlikely to survive in satisfactory condition, the
 owner shall apply for a tree removal permit in accordance with the requirements of this
 code.
- 50 percent of the area within the dripline of the tree shall be naturally preserved, 30 (1)both above- and below-ground. Under no circumstances shall permission be 31 given for any construction activity within the tree root plate. The 50 percent 32 protection zone must include the entire tree root plate. Landscape materials are 33 permitted within the 50 percent protection zone but not within the tree root plate. 34 Within the 50 percent protection zone there shall be no alteration to the existing 35 grade, no trenching or cutting of roots, nor shall there be any storage of materials 36 or fill. No heavy equipment shall be permitted within the protection zone. All 37 work must be done by hand. There shall be no compaction of the soil, as from 38 heavy construction equipment, and no concrete, paint, chemicals or other foreign 39 substances placed within this protection zone. 40
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(2) The city manager or designee may approve paving blocks within the protection

1 2 3 4 5			zone, provided that all work is done by hand (no machinery), and that the soil area under the pavers is not compacted beyond the bulk density limits of 1.40 g/cc in clay, 1.50 g/cc in loam, or 1.70 g/cc in sand. No lime rock or other material shall be used underneath the pavers. Pavers may not be placed within the tree root plate.
6 7		<u>(3)</u>	There shall be no evidence of active insect infestation potentially lethal to the trees, and no damage from skinning, barking or bumping.
8 9 10 11 12 13		<u>(4)</u>	The root plate of regulated trees within the public right-of-way should not be impacted by adjacent development, even where the tree root plate encroaches on the private property. The installation of new utilities or improvements to public utilities required to serve the development should not require the removal of trees on the public right-of-way, where the required separations from the utilities can be met.
14 15 16 17 18 19		<u>(5)</u>	If any preserved tree is not alive and healthy three years after the certificate of occupancy is granted, it shall be removed and replaced with the tree or trees which originally would have been required by this code. The area that was preserved to accommodate the preserved tree shall be maintained in an unpaved condition and the replacement trees established in this area.
20 21 22 23		<u>(6)</u>	The planning and development services department shall maintain, and make available to the public, descriptions and illustrations of tree preservation and protection practices which will assist in assuring that preserved trees survive construction and land development.
24 25 26 27	(d)	before	ctions. The city manager or designee shall conduct periodic inspections of the site e work begins and/or during clearing, construction and/or post-construction phases relopment in order to ensure compliance with these regulations and the intent of this n.
28 29 30 31	<u>(e)</u>	proposition propositi proposition proposition proposition proposition proposit	<i>l; conditions.</i> The reviewing board or city manager or designee may deny a sal for development because one or more champion or high quality heritage trees not been preserved or adequately protected, or may require special conditions of val that may include but are not limited to the following:
32		<u>(1)</u>	Requiring the trees to be protected with chainlink barricades.
33 34 35 36		<u>(2)</u>	Requiring a soil aeration system in the vicinity of tree roots as needed, particularly where fill will be added over roots of preserved trees or where compaction may reduce the availability of water and oxygen to tree roots.
37		Sectio	n 8. Existing Sections 30-256, 30-257, 30-258, 30-259, 30-260, 30-261, 30-262,

1 30-263 and 30-264 of Article VIII. Environmental Management, Division 2. Landscape and Tree

Management, Stormwater Management and Water/Wastewater Connection Policies, Subdivision
 I. Landscape and Tree Management of the Land Development Code are deleted in their entirety

4 as follows:

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6 Sec. 30-256. Replacement stock.

In all cases wherein this article shall require replacement of any tree, such replacement shall be 7 made with replacement stock. "Replacement stock" is hereby defined as any tree contained on 8 9 the herein-referenced replacement stock list having a height of at least eight feet and a Florida Nursery Grade of Number 1 or better. Survival of replacement stock will be guaranteed until 10 such replacement stock meets with the definition of "tree" as defined in article II. Replacement 11 12 stock may be any of the trees listed on the Gainesville Tree List. When ten or more replacement 13 trees are required, the trees shall consist of no more than 50 percent of any one tree genus. 14 Development within airport flight paths are excluded from the genus requirement. When ten or more replacement trees are required, the trees shall consist of no more than 50 percent of any 15 one-tree genus. Development-within airport flight paths are excluded from the genus 16

17 requirement.

18 Sec. 30-257. Champion trees.

- (a) Champion trees are those that have been identified by the state division of forestry as
 being the largest of their species within the state or by the America Forestry Association
 as the largest of their species in the U.S. The current list of Cchampion trees in the city
 and the county that have been identified is on file in the planning and development
 services department, This list is subject to revision and will be updated yearly.
- 24
- (b) Champion trees shall be considered regulated trees in both excluded areas, as defined in
 subsection 30-266, and nonexcluded areas.
- 27

(c) The removal, relocation or replacement of Champion trees in conjunction with
 development requiring board approval shall be in accordance with subsections 30-254(b)
 and 30-254(f). The removal, relocation or replacement of Champion trees shall be by
 special exception of the board of adjustment.

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33 Sec. 30-258 Heritage trees.

(a) The Heritage designation is conferred on the large trees that are the major distinguishing
 feature of Gainesville's urban forest. All native tree species are designated heritage trees
 when they reach the size of 20 inches in diameter when measured at 4½ feet above
 ground level. Exceptions are Water Oaks (quercus nigra), Laurel Oaks (quercus hemispherica), Sweetgums (Liquidambar styraciflua) and Loblolly Pine (pinus taeda),
 which become Hheritage trees only when they are larger than 30 inches in diameter when
 measured at 4½ feet above ground level.

(b) Heritage trees shall be considered regulated trees in exempt areas, as defined in
 subsection 30-251(2)h.

3 (c) The removal, relocation or replacement of Heritage trees in conjunction with 4 development requiring board approval shall be in accordance with subsections 30-254(b), 30 254(f) and 30 254(g). In exempt areas as defined in subsection 30 251(2)h., the 5 removal, relocation or replacement of Heritage trees shall be by special exception as 6 provided by this chapter. No permit shall be required for the removal of Heritage trees on 7 property with single-family zoning district classifications (RSF-1, RSF-2, RSF-3 and 8 9 RSF-4) when the trees are located outside of the required yard and limited to a maximum of two compact areas. Any permission given for the removal of any Heritage tree that is 10 11 healthy and that is not causing structural damage, whether this permission is through an approved development plan or through the issuance of a tree removal permit, will require 12 13 replacement on an inch for diameter inch basis. Trees may be planted on site or off-site, 14 or given to the city for planting on public property.

15 Sec. 30-259. Clearing and grubbing.

16 Clearing and grubbing is only permitted after a site has received development plan 17 approval or conditional plat approval with appropriate permits, or a building permit is issued 18 where development plan review is not required, including existing developed single-family lots, 19 except as may be permitted in agricultural districts and legal nonconforming agricultural uses.

20 Sec. 30-260. Reforestation.

As a condition of any development order issued for commercial harvest for any property other than excluded areas, there must exist or be planted on such property within one year shade trees (except for pines and palms) from the Gainesville Tree-List, in accordance with section 30-265, 12 shade trees per acre for sites over five acres. Newly planted trees shall be located so as to ensure that the appropriate proportion of trees is planted within the developed area of the property.

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Sec. 30-261. Tree removal and planting of street trees in new-subdivisions.

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30 (a) During construction. During the construction of required subdivision improvements, the
 31 developer shall only remove those trees that will hamper the installation of the
 32 improvement. To ensure that this limitation is not exceeded, the appropriate reviewing
 33 board may require, during the subdivision approval process, that the subdivider provide
 34 plans, aerial photographs or other data sufficient to allow an accurate determination to be
 35 made.

(b) -Street trees. The subdivider shall plant street trees from the Gainesville Tree List within
 five feet of the right-of-way of each street or within the right-of-way if such a planting
 strip has been part of the development plan. Trees shall be planted along all streets
 constructed within the subdivision. One such tree shall be planted for every 50 linear feet
 of street right of way on both sides of the street, except for gateway streets, which shall
 comply with section 30-262. Existing native trees in good health may be counted as

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required trees, if approved by the city manager or designee. Where property on one side of the right-of-way is not owned by the subdivider, such trees shall be planted only on the side of the street owned by the subdivider. Such trees shall be no closer together than 50 feet.

6 Sec. 30-262. Tree planting in gateway street district.

8 (a) Generally. The applicant shall plant gateway trees adjacent to the right-of-way from the Ggainesville Tree List. Trees planted to meet this requirement shall be located on the 9 applicant's property, and no closer than five feet, or farther than ten feet, from the right-10 of-way or public utility easement, or within the street median. One tree shall be planted 11 for every 35 linear feet of right of way or street median. Large or medium shade trees 12 shall be utilized in all areas outside of medians. Median trees shall be selected from the 13 "small or medium gateway tree" list. For installations adjacent to overhead utility lines, 14 one small gateway tree for every 25 linear feet shall be planted. For installations adjacent 15 to streetlights, the following clear zones shall be maintained: 16

- 18 (1)- Large gateway trees: 50-foot clear radius.
- 20 (2) Medium gateway trees: 35 foot clear radius.
- 22 (3) Small gateway trees: 25-foot clear radius.

For the purpose of meeting the gateway street tree requirement, existing streetlights adjacent to the applicant's property may be substituted for trees on a one-to-one basis.

(b) Exemption. No gateway street trees shall be required if, in the opinion of the city manager
 or designee, gateway street objectives are achieved by the preservation of existing
 healthy trees.

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30 Sec. 30-263. Credit for preservation of existing trees.

Whenever the terms of these sections require the provision of shade trees on any lot, credit shall be given for the preservation of existing trees which are properly protected during any clearing or construction on the property, pursuant to section 30 264, and which meet the following criteria:

- 36 (1) Such trees must meet the requirements of these sections for location, spacing and
 37 type of tree.
- 38 (2) Any such trees which have a minimum two inch trunk diameter at a point 4½ feet
 39 above ground level and a minimum crown spread of ten feet shall provide credit
 40 on a one-for one basis for trees required pursuant to subsections 30-261(b) or 30 41 252(b) and (c).
- 42 (3) Credit toward the requirements of section 30 260 shall be given in accordance
 43 with the following table:

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2					•	-
3		Existing CrownSpread of	Or	Diameter of	Number of	
4		Preserved Tree		Tree	Trees	
5				Trunk 4½	Credited	
6				Feet Above		
7				Natural		
8				Grade]
9		90 feet or greater	Of	36 inches or	7	
10		Ũ	123	greater		
11		60 89 feet	OF	30 35	6	1
12		00 09 1001	UT UT	inches	Ŭ	
13		50 50 5-+			5	
14		50 59 feet	or	26 29	5	
15 16				inches		
10		40-49 feet	or	20 25	4	
18				inches		
19		30 39 feet	OF	13 19	3	
20				inches		
21		20 29 feet	or	8 12 inches	2	
22		10 19 feet	OF	2 7 inches	1	
23						
24						
25	Sec. 30-264	. Tree protection preservat	ion requireme	nts generally.		
26	() T					a
27	• •	eceive credit for the preserve	ition of an exist	ting tree, the foll	lowing require	ments must
28	be m	iet:				
29						
30	(1)	Fifty percent of the area v	•			
31		or provided with pervio	*			
32		original grade with no tre				
33		there-shall be no storag	serve - serve - server - ser	and the second se	Annual and a second strand and a second strand strands and	
34		construction equipment,	1000 CT 100	e of concrete,	paint, chemica	als or other
35		foreign substances in the	SO11.			
36						
37	(2)	The tree shall not be dama	aged from skin	ning, barking, bu	imping and th	e like.

- 39 (3) There shall be no evidence of active insect infestation potentially lethal to the
 40 trees.
- 42 (4) There shall be no impervious surface or grade change within five feet of the trunk.

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(b) If it is determined by the city-manager or designee that the requirements of subsection (a) of this section have not been complied with, credit for an existing tree may be given upon proof from the county forester and city arborist, satisfactory to the building official, that such tree is healthy and has not been seriously damaged during development.
(c) If any tree for which credit was given pursuant to section 30-263 is not alive and healthy one year after all associated construction and development of the property is completed, it shall be removed and replaced with the tree or trees which originally would have been required.
(d) The planning and development services department shall maintain, and make available to the public, descriptions and illustrations of tree preservation and protection practices which will assist in assuring that preserved trees survive construction and land development.

Section 9. Existing Section 30-265 of Article VIII. Environmental Management, Division 2. Landscape and Tree Management, Stormwater Management and Water/Wastewater Connection Policies, Subdivision I. Landscape and Tree Management, of the Land Development Code is re-numbered and amended as stated below.

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21 Sec. 30-265256. Standards for installation and maintenance of landscape materials.

- 23 (a) Installation.
- (1) <u>Quality</u>. All plants shall be Florida Nursery Grade Number 1 or better, <u>according</u>
 to the Florida Department of Agriculture Division of Plant Industry Grades and
 Standards for nursery plants. They shall be healthy, disease-free and pest-free, and
 hardy for the North Florida region. Nursery invoices or labels must clearly specify
 that Grade Number 1 or better plants were purchased for installation.
- (2)Tree size. Trees shall have a minimum height of 7 feet and a minimum trunk 30 caliper of 2 inches. Trees shall be in minimum 30-gallon containers or field-31 grown material shall have a ball diameter of at least 28 inches. Trees shall have 32 healthy root systems that have been pruned according to the Florida Grades and 33 Standards best practices. Trees must be at least 7 feet tall with a trunk caliper of 2 34 inches (+ or $-\frac{1}{2}$ inch) and grown in a 15 gallon container. Tree species shall be 35 selected from the Gainesville tree list with estimated size at maturity at least as 36 large as the tree being replaced. All trees shall have an average height of eight 37 feet at the time of planting. However, trees at least 71/2 feet in height at the time of 38 planting are eligible for the purpose of determining the average height of all trees. 39 40
- 41 (3) <u>Tree planting and mulching specifications</u>. Trees should be planted in holes at
 42 least twice the diameter of the rootball. The final level of the newly planted tree

(3) <u>Tree planting and mulching specifications</u>. Trees should be planted in holes at least twice the diameter of the rootball. The final level of the newly planted tree should place the root-trunk union between .5 and 1.5 inches above grade. Mulch should be no deeper than 1 inch over the top of the rootball. A tree ring to hold water in place should be constructed to overlap the meeting of the edge of the rootball and surrounding soil. This tree ring and an area 1 foot outside it should be covered with 4 inches of mulch. Plants may be installed during the period of the year most appropriate for planting the particular species. If this option requires that some or all of the landscaping be planted at a time after the issuance of a certificate of occupancy, the developer shall post a performance bond sufficient to pay the costs of the required, but not yet installed, landscaping before the certificate shall be issued.

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- Utility and landscaping compatibility. Lighting fixtures, transformer boxes, fire 14 (4) hydrants, power, cable television or telephone lines, sewer or water pipes, or any 15 other existing or proposed utility facilities and associated appurtenances, shall be 16 located and designed to provide adequate service in the presence of landscape 17 materials when such landscape reaches maturity. Reasonable efforts shall be made 18 to install utility service without impacting existing trees. Excavation to install 19 utility services shall remain at least 5 feet outside the root plate of any existing 20 high quality heritage tree. Lighting fixtures shall be located a minimum of 10 feet 21 22 from all required shade trees. Lighting fixtures, power, cable television or telephone lines, sewer or water pipes, or any other exiting or proposed overhead 23 or underground utility service, shall be located and designed to provide adequate 24 service in the presence of landscape materials when such landscape reaches 25 maturity. For existing mature trees, reasonable efforts shall be made to install 26 utility service without removing such trees. No shade tree that exceeds 40 feet in 27 height at maturity shall be placed within 15 feet of any overhead utility. Fire 28 29 hydrant connections and building fire connections shall not be obstructed by plant material, nor shall dangerous plants such as Spanish bayonet be located within 15 30 feet of such facilities. Small, low-growing shrubs (ten 10 inches or less in height) 31 may be planted to soften the visual impact of these facilities, provided that the 32 33 necessary access to such facilities is maintained. 34
- (5) <u>Native trees.</u> At least 75 percent of trees on the required landscape plan should be
 native species. Cultivars of native trees are considered native species. In order to
 satisfy the requirements of this section, at least 50 percent of the total number of
 trees shall be native species selected from the Gainesville Tree List for all
 development approval issued before June 10, 1995. On or after June 11, 1995, 75
 percent of the number of total trees shall be native species.
- 41 (6) <u>Environmental suitability</u>. The use and location of all landscaping materials shall
 42 be compatible with the soil and light needs of the proposed plant material. <u>At the</u>
 43 time of the required pre-purchase on-site inspection with the city manager or

designee, substitution of plant species may be approved due to environmental l unsuitability of the specified plant materials or due to existing infrastructure 2 conditions on the site. If changes will occur for more than 25 percent of the trees 3 on the site, then the changes must be red-lined on the plans on file with the 4 community development and building inspections departments. Tree substitutions 5 should be for trees that reach the same maximum height at maturity. 6 7 (7)The use of grass, lawn, or turf shall be minimized to conserve water. All sod shall 8 be inspected prior to purchase and installation and shall be certified as free of 9 noxious weeds by the Florida Department of Agriculture and Community 10 Consumer Services, Division of Plant Industry. All landscaped areas not covered 11 with vegetation shall be covered with organic mulches. No plastic surface covers 12 shall be used. 13 14 - Walls, fences and berms. All required walls shall be of solid masonry 15 (8) construction and shall have a minimum height of six feet, and shall be installed in 16 such a manner so as not to disturb existing vegetation or the character of the 17 buffer strip. Fences shall be opaque and constructed to a height of six feet of 18 19 pressure treated wood. Fences and walls shall be screened on each side in amounts equalling one third or more of the face of the fence. A berm may be 20 substituted for a wall if the berm attains at least four feet and has plant material of 21 22 at least two feet. No berm shall have a slope of greater than one to three. 23 24 (b) Replacement of dead material. All trees planted in compliance with an approved development plan or as mitigation for the removal of regulated trees shall be maintained in 25 good health. Within 6 months of a determination by the city manager or designee that a 26 required tree or plant is dead or severely damaged or diseased, the tree or plant shall be 27 replaced by the owner in accordance with the standards in section 30-256. If replacement 28 trees die repeatedly, the city manager or designee may require that additional high quality 29 shade trees be planted on the site. Within six months of a determination by the county 30 forester, city arborist or other city-designated qualified specialist, that a required tree or 31 plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the 32 owner/developer in accordance with the standards specified in this article. 33 34 35 (c) *Pruning.* All trees may be pruned to maintain shape and promote their shade-giving qualities and to remove diseased or dying portions in areas where falling limbs could be a 36 hazard to people or property. Tree pruning shall be done in accordance with the most 37 current version of the American National Standard for Tree Care Operations "Tree. Shrub 38 and Other Woody Plant Maintenance" (ANSI A300) and "Pruning. Trimming. Repairing. 39 Maintaining, and Removing Trees. and Cutting Brush-Safety Requirements"(ANSI 40 Z133). No more than 25 percent of the crown should be removed at one time. On young 41 trees, limb removal shall leave no more than 33 percent of the trunk bare of branches. So 42 that shade trees can grow with sturdy structure, the top branch or leader shall not be 43

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44

removed. Hooks shall not be used to climb trees unless the tree is being taken down.

Mature trees overgrowing vehicular use areas shall be pruned to allow the passage of 1 emergency vehicles. Excessive pruning, pollarding, or pruning of trees into round balls of 2 crown or branches, which results in an unnecessary reduction of shade and promotes weak 3 branch attachments is prohibited. If the city manager or designee finds same additional 4 shade trees shall be required to be planted on the site on up to an inch-for-ince basis. All 5 trees may be pruned to maintain shape and promote their shade-giving qualities. They 6 should be pruned to remove diseased or dying portions in areas where falling limbs could 7 be a hazard to people or property. Lower limbs may be removed to provide clearance for 8 pedestrians. In addition, trees located in association with vehicular use areas shall also be 9 10 pruned to allow a seven-foot clearance from ground level to avoid potential for damage or injury to both pedestrians and vehicles, after they have adapted to the site. Mature trees 11 overgrowing driveways should be pruned to allow the passage of emergency vehicles. 12 However, the excessive pruning or pollarding of trees-into round balls of crown or 13 branches, which results in an unnecessary reduction of shade, shall be prohibited, and 14 may require supplemental plantings. All pruning shall be done following the American 15 National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant 16 Maintenance - Standard Practices." 17

18

19 Section 10. Existing Section 30-266 of Article VIII. Environmental Management, 20 Division 2. Landscape and Tree Management, Stormwater Management and Water/Wastewater 21 Connection Policies, Subdivision I. Landscape and Tree Management, of the Land Development 22 Code is deleted in its entirety as follows:

23 24

Sec. 30-266. Excluded areas.

25 26

The following excluded areas as referred to in this subdivision:

Commence at the southwest corner of the intersection of N.E. 2nd Avenue and N.E. 3rd 27 Street as the point of beginning; thence run south along the west right-of-way line of said 28 29 N.E. 3rd Street to its intersection with the south right-of-way line of East University Avenue; thence run east along said south right-of-way line to its intersection with a 30 northerly extension of the centerline of Sweetwater Branch; thence run South along said 31 32 centerline to its intersection with an easterly extension of the north right of-way of S.E. 33 2nd Place; thence run west along said easterly extension and the north right of way line of said S.E. 2nd Place to its intersection with the northerly extension of the east property 34 35 line of Lot 1 of Oak Hall Plat, as recorded in Deed Book "Q", pages 342 and 343 of the 36 Public Records of Alachua County, Florida; thence run south along said northerly 37 extension and along the east line of said Lot 1 to the north line of Lot 7 of said subdivision; thence run west a distance of 12 feet more or less; thence run south parallel 38 to the east line of Lots 7, 8, 11 and 12 of said Oak Hall Plat to the north right of way line 39 of S.E. 4th Avenue; thence run west along said north right-of-way line to its intersection 40 with the east right-of-way line of S.W. 1st Street; thence run north along said east right-41 of-way line to its intersection with the south right-of-way line of S.W. 3rd Avenue; 42 thence run west along said south right of way line to its intersection with a southerly 43 extension of the east right-of-way line of S.W. 2nd Street; thence run north along said 44

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1	east right of way line to its intersection with the south right of way of S.W. 2nd Avenue;			
2	thence run west along said south right of way line to its intersection with a southerly			
3	extension of the east right of way line of S.W. 3rd Street; thence run north along said			
4	southerly extension and the east right of way line of S.W. 3rd Street to its intersection			
5	with the south right-of-way line of West University Avenue (also known as State Road			
6	No. 26); thence run north to the north right of way line of said West University Avenue			
7	lying also at a point on the east right of way line of N.W. 3rd Street, thence run northerly,			
8	following the east right-of-way line of said N.W. 3rd Street to the southeast corner of			
9	N.W. 3rd Street and N.W. 2nd Avenue; thence run east along the south right of way line			
10	of N.W. 2nd Avenue to its intersection with the east right of way line of North Main			
11	Street (also known as State Road No. 329); thence run north along said east right of way			
12	line to the southeast corner of said North Main Street and N.E. 3rd Avenue; thence run			
13	east along the south right of way line of N.E. 3rd Avenue to the west right-of-way line of			
14	N.E. 1st Street; thence run south along said west right of way line of N.E. 1st Street to its			
15	intersection with the south right-of-way line of N.E. 2nd Avenue; thence run east along			
16	said south right of way line to the southwest corner of N.E. 2nd Avenue and N.E. 3rd			
17	Street, being the point-of-beginning.			
18	CENTRAL CITY DISTRICT LANDSCAPE EXEMPT AREA			
19	Note to Codifier: Please delete the map that appears under this heading.			
20	Section 11. A new Section 30-257 is created in Article VIII. Environmental			
21	Management, Division 2. Landscape and Tree Management, Stormwater Management and			
22	Water/Wastewater Connection Policies, Subdivision I. Landscape and Tree Management, of the			
23	Land Development Code for the Gainesville Tree List and the existing Gainesville Tree List is			
24	amended as follows:			
25				
26	Sec. 30-257. Gainesville tree list.			
27				
28	(See Attachment "A" to this ordinance. Note to Codifier: Please insert Attachment "A"			
29	into new Section 30-257.)			
30				
31	Section 12. Section 30-310(a) and section 30-311(c)(2)b of Article VIII. Environmental			
32	Management, Division 4. Relief and Enforcement of the Land Development Code of the City of			
33	Gainesville, is amended as stated below. Except as amended herein, the remainder of Sections			
34	30-310 and 30-311 remain in full force and effect.			
35				
36	Sec. 30-310. Relief for reasonable or beneficial use.			
27	(a) I and so and two managements A_2 recents the provision of the log log of the second states of the second			
37	(a) Landscape and tree management. As regards the provisions of the landscape and tree			
38	management sections of this article:			
39	(1) Generally. In addition to the relief provisions of this chapter, and pursuant to the			
39 40	terms of article X, pertaining to the board of adjustment, the board of adjustment			
40	terms of article 72, pertaining to the board of adjustment, the board of adjustment			

1 2 3). A	demonstrated	riances to the landscape and tree management sections, based on hardship, to the minimum 20 percent of areas devoted to landscape irement of section 30-251.
4 5 6 7 8		on the G gain	sting trees. The preservation of any existing regulated tree <u>identified</u> esville \pm tree \pm list <u>as being a high quality shade species</u> may be a basis for the granting of a variance pursuant to the procedures article X.
9	Sec. 30-311. V	iolations, enf	forcement and penalty.
10 11 12 13		ape and tree a ment sections	<i>management</i> . As regards the provisions of the landscape and tree :
14	(2) l	Performance s	standards for regulated trees shall be as follows:
15 16 17 18 19 20 21	٤	board landsca approp are ac	se. In order to assist the enforcing official, the code enforcement and/or appropriate judicial forum in remedying a violation of the ape and tree management sections of this article and ordering triate corrective action against any violation of these sections, there lopted the following performance standards which meet the ves of these sections.
22 23	ł	o. Minim	um requirements.
24			
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		1.	A tree that was established in compliance with a development order but which has been removed from the site or has died must be replaced with a tree that meets the requirements of Sec. 30- 257(b). The species should be the same as specified on the approved landscaping plan. If a different species is desired, it must fill the required function – for example, a small flowering tree cannot replace a high quality shade tree. Whenever required street trees are removed to allow for infrastructure improvement projects along a street, they shall be replaced by the entity responsible for the improvement project. To replace a regulated tree, a minimum tree of three inches in diameter and 14 feet in height when planted is sufficient, unless such a tree would be unreasonable under the circumstances, in which event a smaller variety of flowering tree may be allowed provided such tree is a minimum of two inches in diameter and ten feet in height when planted.
41 42		2.	High quality heritage trees shall be used as mitigation trees for any trees that were removed without a permit. Mitigation trees should

1 2		be planted on site in all the locations that would be required by code to bring the landscaping into compliance with current
3		standards have been filled. The remainder of the mitigation trees
4		may, as determined by the city manager or designee, be established
5		on other appropriate sites within the city limits or may be given to
6		the city tree-planting program. All regulated trees shall be replaced
7		by parking lot trees from the Gainesville Tree List, with the
8		exception of pines and palms, which are not-allowed as
9		replacement trees. However, other varieties of trees from the list of
10		shade trees may be used when requested by the violator; provided,
11		further, in no event shall pine or palm trees be allowed as
12		replacement trees.
13		
14	3.	All replacement or mitigation trees shall be nursery-grown trees.
15		They may be balled and burlapped, tree spaded or containerized.
16		
17	4.	Replacement or mitigation trees shall be located in approximately
18		the same location as the regulated tree that has died or has been
19		removed from the site, unless such location does not meet utility
20		separation requirements or would conflict with other requirements
21		in the chapter would be unreasonable under the circumstances, in
22		which event the location shall be determined by the city manager
23		or designee enforcing official or other appropriate body.
24		
25	5.	Replacement or mitigation trees shall may only be required to be
26		planted during the months of November through March, unless the
27		trees are containerized or the site is served by an automatic
28		irrigation system.
29		
30	6.	The total sum of the caliper inches of replacement or mitigation
31		trees shall equal, at a minimum, to the total sum of the caliper
32		inches of the regulated trees which were illegally removed without
33		a permit. If a tree removed without a permit was a heritage tree,
34		then the required mitigation shall be double what is required as in
35		mitigation in Section 30-254.
36		
37		ix A. Special Area Plans, Section 3. Special Area Plan for College
38		nent Code of the City of Gainesville, is amended as stated below.
39		he remainder of Appendix A. Special Area Plans, Section 3. Special
40	Area Plan for College Park r	emains in full force and effect.
41	r.	
42	E	Exhibit B. College Park Special Area Plan
43	Pavild to Line	
44	Build-to Line.	

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Intent. The intent of a build-to line is to define the relationship between the pull 2 the building facade and elose to the street and streetside sidewalk. The distance between the buildings and the street edge should preserve the neighborhood as a place sheltered by large trees. By doing so, building Building facades along a block face will should be aligned arranged to form a street edge that frames the public realm, while retaining sufficient width for people to walk, and sufficient space to provide formal landscape created by street trees. The street edge shapes the public realm to provide a sense of comfort and security for the public space. Buildings pulled up to the street sidewalk have more of a human scale, and allow for the construction of canopies which create shade and shield the pedestrian from wet weather.

- In general, the goal of a commercial build-to line should be that the width of the street 12 corridor (as measured by opposing building facades) and the height of the buildings shall 13 be at least a ratio of 1:1 to 3:1. (The width should be no more than 3 times the height). 14
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Standard. A build-to line range is specified by building lot type.

Stoops, stairs, chimneys, and bay windows are allowed to extend beyond the build-to line 17 as long as they do not exceed more than 25 percent of the front façade, provide a 18 minimum 10' setback from the center of tree to any architectural feature, meet utility 19 20 separation requirements, and do not encroach into the public right-of-way. Open porches, projecting signs, balconies, arcades, and awnings and outdoor cafes may also extend 21 beyond the build-to line. However, at least 5 feet of unobstructed sidewalk width and 22 room for any the required street trees tree strip must be retained. 23

Landscape Standards. 24

Total Number of Trees Required. Developing or redeveloping properties are 25 required to provide shade trees based on the lot's private outdoor space. The property 26 owner is also required to improve the adjacent public right of way to the standard set by 27 the Special Area Plan and City Manager or designee. 28

- Three trees including at least 2 shade trees are required for every 1,200 square feet of 29 30 private outdoor space on the lot.
- 31

Parking lots other than single family driveways shall meet the landscape requirements 32 specified in the Land Development Code. Street buffer vards requirements specified in 33 34 the Land Development Code shall also be met. Spacing of street trees shall be as set forth below. The front buffer requirements may be modified or reduced if the build to line 35 established by the City Manager or designee or the appropriate reviewing board precludes 36 37 or reduces the front buffer area. Tree spacing shall be in accordance with the right-of-way 38 planting requirements rather than the underlying buffer requirements.

1	Existing trees on the lot and on the adjacent swales may count toward the total number of
2	trees required. The City Manager or designee shall approve which existing trees may
3	count towards the total required trees.
4	
5	Street Trees. Street trees intended to provide pedestrian shade shall be located in
6	the right of way swale or near the sidewalk on the private property. The City prefers
7	street trees between curb and sidewalk but recognizes that utilities or space constraints
8	may dictate that street trees shall in some cases be required to be located instead on
9	private property behind the sidewalk.
10	Commercial and mixed use streets (such as University Avenue) shall have shade trees
11	planted with an average spacing of 35 feet on center. Trees are not required when arcades
12	and colonnades are present.
13	
14	Residential Streets shall have shade trees planted an average spacing of 30 feet on center.
15	
16	Quality of Trees. All trees planted shall be Florida Grade #1-or better, with a trunk
17	caliper of at least 2 inches in a 25 gallon container. Species must be chosen from the list
18	of trees in the Approved Tree List in the Land Development Code. Each shade tree shall
19	have a minimum root area of 140 square feet at or below grade. The minimum root space
20	requirement can be met by using soil materials that are engineered to accommodate root
21	growth under hardscape.
22	Urban Regulations For New
23	Construction—Type I
25	
24	Instructions. This building type includes shopfronts, offices, apartments or mixed-use buildings
25	with apartments.
26	-
27	Building Placement.
28	
	1. Shopfront and Office buildings 0 feet to 12 feet from the front property line, 0 feet
29 30	1. Shopfront and Office buildings 0 feet to 12 feet from the front property line, 0 feet to 10 feet from the side street property line. The <u>Ccity Mmanager</u> , designee or
31	
	appropriate board shall set build-to line location to ensure enough room for sidewalks, utilities, and required street trees, and enprepriate street trees, on
32	sidewalks, utilities, and required street trees. and appropriate street trees on
32 33	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be
32 33 34	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage
32 33 34 35	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be
32 33 34 35 36	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage Street.
32 33 34 35 36 37	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage
32 33 34 35 36 37 38	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage Street. Encroachments.
32 33 34 35 36 37 38 39	 <u>sidewalks, utilities, and required street trees.</u> and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage Street. <i>Encroachments.</i> Balconies shall be permitted to encroach forward of the build-to line. but must not
32 33 34 35 36 37 38	sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights of way. If the block is only one lot deep, new buildings should be oriented towards the street of greater hierarchy, known as the Primary Frontage Street. Encroachments.

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1 2		specified on the gainesville tree list. This shall apply to balcony construction regardless of its location on the property (front, rear or sides.) Balconies shall be
3		a minimum of 9 feet above grade and 18 inches behind the face of the curb.
4		
5 6	2.	Stoops and open porches shall be permitted to encroach forward of the build-to line, and shall not encroach into the public right-of-way.
7		inte, and bian net energiaen into are public right of thay?
	3.	For energedement of balachies into the nublic right of way, normingian (such as
8 9	5.	For encroachment of balconies into the public right-of-way, permission (such as an easement or other appropriate property right) is required from the public entity
10		responsible for right-of-way.
11		
12	<u>4.</u>	There shall be no encroachment in the area reserved for the tree root plate of any
13		tree.
14		
15		Urban Regulations For New
16		Construction—Type II
17	Instructions.	This building type includes houses, apartments or townhouses.
18		
19	Building Plac	rement.
20		
21	1.	Townhouses and Apartments: 10 feet to 20 feet from the front property line, 5 feet
22		to 10 feet from the streetside property line for the end unit. The City Manager,
23 24		designee or appropriate reviewing board shall set build-to line location to ensure enough room for sidewalks, <u>utilities</u> , and <u>required street trees</u> . appropriate street
25		trees on narrow rights-of-way. Rowhouse lot widths may be as narrow as the
26		rowhouse.
27		
28	2.	Houses: 5 feet to 25 feet from property line, 5 feet to 10 feet from the side
29		property line. City staff shall set build-to line location to ensure enough room for
30		sidewalks, utilities, and required street trees. appropriate street trees on narrow
31		rights-of-way.
32		
33	3.	Accessory structures shall be a minimum of 5 feet from rear property line and 8
34		feet from side property line <u>unless more space is necessary to provide a required</u>
35		adjacent use buffer or meet utility separation requirements.
36		
37		Urban Regulations For New
38		Construction—Type III
39	Instructions.	This building type includes houses.
40		

1	Buila	ling Placement.
2		
3 4	2.	Houses: 5 Five feet to 25 feet from property line, 5 feet to 10 feet from the side property line. The city manager, designee or appropriate reviewing board shall set build-to line
5 6		location to ensure enough room for sidewalks, utilities, and required street trees. and appropriate street trees on narrow rights-of-way.
7		
8	3.	Accessory structures shall be a minimum of 5 five feet from rear property line and 8 five
9		feet from side property line <u>unless more space is necessary to provide a required adjacent</u>
10		use buffer or to meet utility separation requirements.
11		Plant List
12 13		Landscape Regulations for New Construction and Renovation Planting on Public
14		and Private Property
15		Large Trees:
16		Ulmus alata (Winged Elm)
17		Yellow fall color
18		Quercus shumardii (Shumard Oak)
19		Scarlet fall color
20		Magnolia grandiflora (Southern Magnolia)
21		Evergreen
22		Quercus virginiana (Live Oak)
23		Evergreen
24		
25		Medium Trees:
26		Acer rubrum (Red Maple)
27		Red fall color, red spring flowers
28		Ostraya virginiana (Ironwood) (Hop Hornbeam)*
29		Yellow fall color
30		
31		Small Trees:
32		Prunus angustifolia or P. umbellata (Wild Plum)
33		White flowers in early spring, sunny or part shade
34		Osmanthus americanus (Wild Olive)*
35		Evergreen, shady sites
36		Lagestroemia indica cv. Natchez (White Crape Myrtle)
37		White flowers, yellow fall color
38		Hedge (Sun):
39		llex vomitoria nana (Dwarf Yaupon Holly)

1	Especially cultivar Schillings Dwarf
2	Hedge (Shade):
3	Rhododenron indicum
4	Cultivars (vary in height)
5	
6	* Indicates availability may be limited.
7	maleates availability may be miniba.
8	In the tree planting programs in College Park, the City of Gainesville Parks Division will
9	use the trees suggested in this section.
10	
11	Section 14. Appendix A. Special Area Plans, Section 4. Special Area Plan for
12	Traditional City of the Land Development Code of the City of Gainesville, is amended as stated
13	below. Except as amended herein, the remainder of Appendix A. Special Area Plans, Section 4.
14	Special Area Plan for Traditional City remains in full force and effect.
15 16	Exhibit B. – Special Area Plan for the Traditional City Area
10	Minimum Development Standards
18	
19	(p) <u>Fences Landscaping.</u>
20	
21	(1) Intent. In the Traditional City area, landscaping should be used both to soften the
22	"hardness" of the urban area for the pedestrian and make the pedestrian feel more
23	comfortable by providing shade, reducing glare and helping to form public
24	spaces, "outdoor rooms," and street corridor edges. Such formality of landscaping
25	adds dignity to the Traditional City area.
26	
27	(2) Standard.
28	
29	a. When installed, landscaping fronting on a street must be aligned to
30	provide a pleasant pedestrian atmosphere. Landscaping adjacent to
31 32	existing and proposed street sidewalks must be <i>formal landscaping</i> and include shade trees and bedges that help to from and define the public
32 33	include shade trees and hedges that help to frame and define the public space. When installed, large shade street trees reaching at least 40 feet in
34	height at maturity must be planted at no more than 40-foot intervals along
35	streets.
36	
37	b. For commercial development, the spacing shall be designed to avoid
38	obscuring entrances and building signs.
39	
40	e. Chain link fences, barbed wire, line-voltage electrified wire, and razor
41	wire fences are prohibited. The city manager or designee may waive the

1 2		prohibition on barbed wire or electrified fences due to public safety concerns.
3		
4		Section 15. Appendix A. Special Area Plans, Section 5. Special Area Plan for Central
5	Corri	dors of the Land Development Code of the City of Gainesville, is amended as stated below.
6		pt as amended herein, the remainder of Appendix A. Special Area Plans, Section 5. Special
7		Plan for Central Corridors City remains in full force and effect.
8		
9		Exhibit B. Special Area Plan for the Central Corridors
10		Minimum Development Standards
11		
12	(d)	Exceptions. Exceptions to these standards can be granted by the appropriate reviewing
13	(4)	board, city manager or designee, upon a finding that either of the following criteria are
14		met:
15		
		1. The proposed construction is consistent with the overall intent of the Central
16 17		Corridors standards; or
		Contuors standards, or
18		
19		2 The applicant proves an undue hardship, owing to conditions peculiar to the land or
20		structure and not the result of the action of the applicant, would result from strict
21		adherence to these standards.
22	× 1	andre 5 da de Salis a d'a al de si da el arte el 10 d
23		lition to the exceptions that may be granted above, exceptions to the build-to line may be
24		ed to preserve a high quality heritage tree or to provide sufficient space for the required
25		trees, or if the proposed construction includes an existing structure which has been
26		nated as a historic property or has historic significance because it is potentially eligible for
27	1. Contract (1. Contract)	g on the national or local register, and maintaining a viewshed of the existing historic
28 29	structi	ure is in the public interest.
	(-)	Devil 1 to line
30 31	(k)	Build-to line.
		(1) Interest The interest of the build to line is to null the define the relationship between
32		(1) Intent. The intent of the build-to line is to pull the define the relationship between the building facade close to and the street and streetside sidewalk. The distance
33 34		the building facade close to and the street and streetside sidewalk. The distance between the buildings and the street edge should preserve the neighborhood as a
34 35		place sheltered by large trees. Because of the transitional nature of these
35 36		corridors, the <i>build-to line</i> is more flexible than in the Traditional City. The <i>build-</i>
30 37		to line allows new buildings to be aligned with existing buildings, or, in the
38		future, allows a building to be built in front of the building and allows this future
39		building to abut the streetside sidewalk. Over time, building <i>facades</i> along a block
39 40		face should be aligned to form a <i>street edge</i> that frames the public realm, while
40		retaining sufficient width for people to walk, and sufficient space to provide a
42		formal landscape created by street trees. Over time, the intent is to pull building
		,

Petition No. PB-10-7-TCH CODE: Words stricken are deletions; words underlined are additions. facades close to the street and streetside sidewalk, frame a comfortable public realm, and prevent overly large setbacks.

Overly large *setbacks* are inconvenient and unpleasant for pedestrians. They can significantly increase walking distances from the public sidewalk. They prevent the pedestrian on the public sidewalk from enjoying building details and activity within the building. Similarly, overly large setbacks contribute to sign proliferation and visual blight because a building set back a large distance often needs to "shout," with signs, at passing motorists, transit users, bicyclists and pedestrians in order to be noticed. Buildings pulled up to the street sidewalk have more of a human scale and allow for the construction of canopies which shield the pedestrian from wet weather.

- (2)Standard. The build-to line shall be that which achieves the above-stated intent, as 14 determined by the appropriate reviewing board, city manager or designee, and 15 shall apply even if the *facade* faces a street outside of the overlay affected area. 16 Building walls along a street that is not within the overlay affected area that are 17 18 entirely more than 250 feet from the regulated corridor shall be exempt from the Build-to Line standard. If a portion of the wall along a street is within 250 feet, all 19 of the wall is affected by the standard. In most instances, the build-to line shall be 20 80 feet from the curb or edge of pavement for at least 70 percent of the building 21 facade. Factors to be considered for variations to this build-to line shall be as 22 follows: 23
 - When considering a closer *build-to line*, the building *facade* shall, in most instances, be no closer than 14 feet from the curb or edge of pavement along an arterial, 12 feet along a collector, and 11 feet along a local street, in order to leave space for adequate sidewalks, required utility separations and street trees tree strips (see Map A).
- When the proposed building is *adjacent* to existing buildings on an 31 abutting property the facade shall, in most instances, be built at the facade of the 32 adjacent building closest to the street, or the 80-foot build-to line, whichever is 33 closer to the street. In all cases, however, space shall be created for street trees of 34 high quality species on private property or in the public right-of-way. 35
- 36 37

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Section 16. Appendix A. Special Area Plans, Section 6. Special Area Plan for University 38 Heights of the Land Development Code of the City of Gainesville, is amended as stated below. 39 Except as amended herein, the remainder of Appendix A. Special Area Plans, Section 6. Special 40 Area Plan for University Heights remains in full force and effect. 41

42 43

Exhibit A. Special Area Plan for University Heights

1	IV.	General Provisions
2		
3		L. — Landscape Standards:
4		Total Number of Trees Required
5 6		Developing or redeveloping properties are required to provide shade trees based on the lot's private outdoor space. The property owner is also required to improve
7 8		the adjacent public right-of-way to the standard set by the Special Area Plan and City Manager or designee
8 9		City Manager of designed
10		Three trees including at least 2 shade trees are required for every 1,200 sq ft of
11		private outdoor space on the lot.
12		
13		Parking lots other than single family driveways shall meet the landscape
14		requirements specified in the Land Development Code. Street buffer yards
15		requirements specified in the Land Development Code shall also be met. Spacing
16		of street trees shall be as set forth below. The front buffer requirements may be
17		modified or reduced if the build to line established by the City Manager or
18		designee or the appropriate reviewing board precludes or reduces the front buffer
19 20		area. Tree spacing shall be in accordance with the right-of way planting
20		requirements rather than the underlying buffer requirements.
21		
22		Existing trees on the lot and on the adjacent-swales may count toward the total
23		number of trees required. The City Manager or designee shall approve which
24		existing trees may count towards the total required trees.
25		
26		Street Trees
27		Street trees intended to provide pedestrian shade may be located in the right of
28		way swale or near the sidewalk on the private property. The City prefers street
29		trees between curb and sidewalk but recognizes that utilities or space constraints
30		may dictate that street trees shall sometimes be required instead on private
31		property behind the sidewalk.
32		
33		Commercial and mixed use streets (such as University Avenue) shall have shade
34		trees planted with an average spacing of 35 ft on center. Trees are not required
35		when arcades and colonnades are present.
36		
37		Residential Streets shall have shade trees planted an average spacing of 30 ft on
38		center.
39	5	Section 17. Division 12. Tree Board of Appeals and Division 13. Tree Advisory Board,
40		r 2 Administration, Article V. Boards, Commissions and Committees, of the Code of
41	the second se	nces of the City of Gainesville, are amended as stated below. Except as amended herein,

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1 the remainder of Division 12 and Division 13, remains in full force and effect.

2 DIVISION 12. TREE BOARD OF APPEALS

3 Sec. 2-430.16 Creation; composition; appointment; term of members; filing of vacancies.

4

5 (a) The tree board of appeals shall consist of three members nominated by the tree advisory 6 board and appointed by the city commission. Any candidate for the tree board of appeals 7 shall be qualified in arboriculture. The board is authorized to hear appeals from any 8 order, decision, or determination to remove dangerous or dead trees which is made by the city arborist manager or designee with respect to the removal of trees, documentation 9 regarding failure to protect trees during development and construction, or the 10 determination/interpretation of the tree appraised value with respect to the mitigation 11 requirements for heritage trees. Appeals shall be filed with the city arborist. manager or 12 designee The tree board of appeals shall apply standards and considerations found in 13 section 30-254 and 30-254.1 of the Land Development Code and shall have authority to 14 decide any question involving the interpretation of the city arborist's manager or 15 designee's order. Each member shall be appointed for a term of three years and shall 16 remain in office until a successor has been appointed and qualified. Vacancies shall be 17 filled for the unexpired term of any member whose office becomes vacant. Terms shall 18 expire on January 1 of the year the term expires. 19

20

21 DIVISION 13. TREE ADVISORY BOARD

22

23 Sec. 2-430.33. Duties.

- 24 The duties of the tree advisory board shall include:
- 25(1)To act as the technical information collector/exchange forum on tree issues where26citizens need coordination of information from varied sources.
- 27 (2) To clarify tree regulations that exist in the city's codes and ordinances and make
 28 them known to city residents.
- 29 (3) To act on referrals from the city commission.
- 30 (4) To guide the creation of a master tree plan for the city.
- (5) To assist in the development of the goals and objectives for the city's
 comprehensive plan with respect to trees and to review proposed changes to the
 Land Development Code regarding tree and landscape regulations.
- 34 (6) To advise all departments of the city on tree issues.

- 1 (7) To communicate general tree information and develop tree projects that would 2 benefit the community.
- 3 (8) To serve on the tree board of appeals (three of the five members will be 4 recommended by the tree advisory board for appointment by the city 5 commission).
- 6 (9) To determine species that qualify as high quality heritage trees, and to maintain a
 7 list of ratings that identify the relative value of trees in the urban forest for the
 8 purpose of calculating tree appraised value.
- 9 (10) <u>To establish monetary values for trees as necessary to calculate tree appraised</u> 10 <u>value, mitigation payment and other payments required for regulated trees.</u>

11 Section 18. It is the intention of the City Commission that the provisions of Sections 1 12 through 17 of this ordinance shall become and be made a part of the Code of Ordinances of the 13 City of Gainesville, Florida, and that the Sections and Paragraphs of this Ordinance may be 14 renumbered or relettered in order to accomplish such intentions.

15 Section 19. If any word, phrase, clause, paragraph, section or provision of this ordinance 16 or the application hereof to any person or circumstance is held invalid or unconstitutional, such 17 finding shall not affect the other provisions or applications of the ordinance which can be given 18 effect without the valid or unconstitutional provisions or application, and to this end the 19 provisions of this ordinance are declared severable.

20 Section 20. All ordinances, or parts of ordinances, in conflict herewith are to the extent 21 of such conflict hereby repealed.

Section 21. This ordinance shall become effective immediately upon final adoption. However, this ordinance shall not apply to any application that is filed with and determined complete by the City prior to the effective date of this ordinance.

26	PASSED AND ADOPTED this	day of	, 2013.
27			
28			
29			
30		CRAIG LOWE, MAYO)R
31			
32	ATTEST:	Approved as to form an	d legality
33			
34			
35	KURT M. LANNON	NICOLLE M. SHALLE	EY
36	CLERK OF THE COMMISSION	CITY ATTORNEY	

71

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1			
2			
3	This Ordinance passed on first reading this	day of	, 2013.
4			50
5	This Ordinance passed on second reading this	day of	, 2013.

Attachment A to Ordinance No. 090878														
	Gainesville Tree List													
	Mature Urban OK Trees in													
							1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							
		Maximum-	Est. Crown	Avg. Spread		High Quality	<u>Under</u>	Street	Natural			Wet/	Retention	
Common Name	Scientific Name	Height	(20 Year)	(35 Year)	Native	Shade_	OHL	Buffer	Buffer	Lot	Gate	Dry	<u>Basins</u>	
Ash, Green	Fraxinus pennsylvanica	75 - <u>'60'</u>	25'	50'	X	X		X	X	X		W	<u> </u>	_
Ash, White	Fraxinus americana	100 <u>'-60'</u>	30'	<u>60'</u>	x	X		S	<u>×</u>	X	Lrg			
Bay, Red	Persea borbonia	60' <u>40'</u>	<u>15'</u>	25'	X		X		X					
Bay, Swamp	Persea palustris	35'	<u>15'</u>	20'	X				<u>×</u>			W	<u>x</u>	
Basswood	Tilia caroliniana	<u>90-' 50'</u>	30'	55'	X			S	X	X			X	
Birch, River	Betula nigra	60' <u>45'</u>	<u>25'</u>	35'	X		X	U	X		Med	W	<u>×</u>	
Blackgum	Nyssa sylvatica	<u>90' 45'</u>	25'	35'	X		X	S	X	X	Med		X	
Boxelder	Acer negundo	50'	30'	40'	X				X					
Buckeye, Red	Aesculus pavia	40' <u>25'</u>	<u>10'</u>	15'	X		X	U	X				X	
Buckthorn, Carolina	Rhamnus caroliniana	20'	<u>10'</u>	15'	X		<u>×</u>	U	X					
Bumelia	Sideroxylon tenax	20'	<u>7'</u>	<u>12'</u>	X		X	U	X					
Bumelia, Silver	Sideroxylon alachuense	20'	<u><u>7'</u></u>	<u>12'</u>	X		<u>X</u>	U	X					
Catalpa, Southern	Catalpa bignonoides	60'	20'	30'										
Cedar, Atlantic White	Chamaecyparis thyoides	80 ' <u>45'</u>	<u>15'</u>	25'	X				X				X	
Cedar, Eastern Red	Juniperus virginiana	60'	<u>15'</u>	25'	X		X	U	X			D		
Cedar, Southern Red	Juniperus silicicola	60'	20'	30'	X				X					
Cherry-laurel	Prunus caroliniana	40'	20'	20'	X			U	X					
Chinese Pistachio	Pistacia chinensis	60' <u>50'</u>	25'	45'			X	U						
Crabapple	Malus angustifolia	40' 25'	20'	20'	X				X					
Crape Myrtle	Lagerstromia indica	35'	15'	25'			X	U		1	Sm			
Cypress, Bald	Taxodium distichum	100' 50'	20'	30'	X	X	X	U	X		Med	W	X	
Cypress, Pond	Taxodium ascendens	90' 50'	15'	20'	X	X	X	U	X			W	X	
Devil's-walkingstick	Aralia spinosa	30'	10'	15'	X				X			T		
Dogwood, Flowering	Cornus florida	40' 35'	25'	35'	X		X	U	X		Sm			
Elm, Cedar	Ulmus crassifolia	100' 60'	30'	50'	X	X		S	X	X	Lrg			
Elm, Chinese (Drake)	Ulmus parvifolia CV. Drake	60' 40'	30'	40'			X	S		X	Med			
Elm, Florida	Ulmus americana floridana	80' 60'	30'	50'	X	x		S	X	X	Lrg			
Elm, Water	Planera aquatica	25'	15'	20'	X		X	1	x			W	X	
Elm, Winged	Ulmus alata	65'	30'	60'	X	X		S	X	X	Med			
	Liquidambar formosana	40'	20	30'			×	U		1		-		
Fringe Tree	Chionanthus virginicus	30' 25'	10'	20'	X		X		X	-	Sm	-	X	
Fringe Tree, Chinese	Chionanthus retusus	30'	15'	25'			X	U		1	Sm			
Hawthorn, Green	Crataegus viridis	25'	7'	10'	x		X		X	1	1	1		
Hawthorn, Parsley	Crataegus marshalii.	20'	7	10'	X		X		X	1	1	<u> </u>	X	
Hawthorn, May	Crataegus aestivalis	30' 25'	10'	15'	X		X		X		Sm	W		<u> </u>
Hawthorn, Cockspur	Crataegus crus-galli	20'	T	10'	X	1	X	1	X	1		1		-
Hawthorn, 1-fird	Crataegus uniflora	15'	7'	10'	X		X	1	X	1	1			i —
Hercules Club	Zanthoxylum clava-herculis	50'	25'	40'	X	1	<u> </u>	1	X	1		1		
Hickory, Mockernut	Carva tomentosa	45'	20'	30'	X	x		S	X	1	1	D		
Hickory, Pignut	Carva glabra	55'	20'	30'	X	x		Š	X	1		+ -		
Hickory, Water	Carya aguatica	100' 40'	30'	50'	x			Ť	X	1	1	W	x	
Holly, American	llex opaca	50' 35'	15'	25'	x	x	x	U	x		Med	the second se	<u> </u>	

		Mature						-		—				
*)		Urban					OK		Trees in					
		Maximum-	Est. Crown	Avg. Spread		High Quality	Under	Street	Natural			Wet/	Retention	
Common Name	Scientific Name	Height	(20 Year)	(35 Year)	Native	Shade	OHL	Buffer	Buffer	Lot	Gate	Dry	Basins	- 20
Holly, dahoon	llex cassine	40' 30'	15'	25'	x	x	X	U	X		Sm	W	X	
Holly, East Palatka	llex x attenuata "E. Palatka"	50' 35'	20'	30'	x		X	U		X	Sm			
Holly, Savannah, etc.	llex x attenuata varieties	50' 40'	15'	35'	х		X	U		X	Sm			
Holly, Weeping	llex vomitoria' Pendula'	35'	15'	25'			X	U						
Holly, Yaupon	Ilex vomitoria	20'	15'	20'	х		X	Ū	x					
Hop-hornbeam	Ostrya virginiana	35'	25'	35'	X	x	X	U	X	-	Sm			
Hornbeam	Carpinus caroliniana	35'	25'	35'	х		X	U	x		Sm	W	X	
Jerusalem-thorn	Parkinsonia aculeata	30'	25'	30'			X							
Lobiolly Bay	Gordonia lasianthus	60'	20'	35'	х			×	X	-		W		
Locust, Black	Robinia pseudoacacia	50'	20'	35'										
Locust, Honey	Gleditsia triacanthos	40'	20'	35'	Х		X	U	x		Sm			
Loguat	Eriobotrya japonica	30'	20'	30'		not re	commen	ded for p	lanting					
Magnolia, Ash	Magnolia ashei	20'	15'	20'	x	1	x	1		1	Sm	+		
Magnolia, Oriental	Magnolia spp.	25'	15'	25'	~	<u>.</u>	<u> </u>	U		<u> </u>	0			
Magnolia, Southern	Magnolia grandifloria	90'	20'	35'	x	x		s	x	x	Lrg			
Magnolia, Sweetbay	Magnolia virginiana	80' 55'	25'	40'	X			Ť	X	<u>^</u>		W	x	
Maple, Florida	Acer barbatum (floridanum)	60' 50'	25'	40'	x	×	-	S	X	x	Med	<u>+ ''</u>	<u> </u>	
Maple, Red	Acer rubrum	80' 55'	25'	40'	x	^		<u>ا</u>	X	Ê	Med	W	x	
Mulberry, Red	Morus rubra	50'	25'	35'	x	-			X		inou	<u> </u>	<u>^</u>	
Oak, Basket	Quercus michauxii	100' 60'	25'	40'	X	×	-	S	X	x		-	x	
Oak, Bluejack	Quercus incana	60' 40'	25'	30'	X		X	Ū	X		<u> </u>	D		
Oak, Bluff (local)	Quercus austrina	100' 60'	30'	60'	X	×		S	X	x	Lrg			
Oak, Diamondleaf	Quercus laurifolia	100'	40'	60'	x		1		X	1		1		
Oak, Durand	Quercus durandii	70'	40'	60'	x			×			<u> </u>			
Oak, Laurel	Quercus hemisphaerica	100'	40'	60'	x		not rec	ommend	ed for plant	ing				
Oak, Live	Quercus virginiana	80'	45'	80'	x	X		S	X	T x	Lrg	1		
Oak, Post	Quercus stellata	80' 60'	25'	40'	X			-	x	X	Ť	D		
Oak, Sand Live	Quercus geminata	60'	30'	50'	X	x			X	X		D		
Oak, Shumard	Quercus shumardii	100'	30'	50'	x		· · ·	S	X	X	Lrg	-	X	
Oak, Southern Red	Quercus falcata	100' 65'	30'	50'	X	x	1	S	X	X	Ť	1		
Oak, Turkey	Quercus laevis	60'	25'	40'	X	1	X		x	X	<u> </u>			
Oak, White	Quercus alba	100' 65'	20'	35'	X			S	X	X	Lrg			
Olive, Wild	Osmanthus americanus	40' 35'	20'	30'	X		X	U		1	Sm			
Palm, Cabbage	Sabal palmetto	80'	14'	12'	X				x		Med	W		
Palm, Date	Phoenix spp.	60'	26'	24'										
Palm, Pindo	Butia capitata	20'	14'	12'			X							
Palm, Washington	Washingtonia robusta	90'	12'	10'										
Pear, Bradford	Pyrus calleryana (Aristocrat)	40'	15'	20'			X	U			Sm			
Pecan	Carya illinoiensis	100' <u>70'</u>	35	55'		x		S	X					
Persimmon	Diospyros virginiana	60'	15'	30'	×	x			X				X	
Pine, Lobiolly	Pinus taeda (rust res.)	110'	20'	30'	X									
Pine, Longleaf	Pinus palustris	90'	20'	<u>30'</u>	X	x		U	X		Lg			
Pine, Pond	Pinus serotina	90'	20'	30'	x							W	X	
Pine, Shortleaf	Pinus echinata	100'	<u>15'</u>	25'	Х									
Pine, Slash	Pinus elliottii (rust res.)	100'	20'	30'	X									
Pine, Spruce	Pinus glabra	100' 50'	25'	40'	X			U	X	X	Med			

		<u>Mature</u> <u>Urban</u> Maximum	Est. Crown	Avg. Spread		High Quality	OK Under	Street	Trees in Natural			Wet/	Retention	
Common Name	Scientific Name	Height	(20 Year)	(35 Year)	Native	Shade	OHL	Buffer	Buffer	Lot	Gate	Dry	Basins	
Plum, American	Prunus americana	30'	20'	30'	X		X	U	X					
Plum, Chickasaw	P. angustifolia	20'	<u>15'</u>	25	X		X	U	X		Sm			
Plum, Flatwoods	Prunus umbellata	20'	<u>15'</u>	25'	X		X	U	X		Sm			
Podocarpus	Podocarpus macrophylla	40'	10'	<u>15'</u>										
Redbud	Cercis canadensis	30'	25'	30'	Х			U	X		Sm			
Rusty Blackhaw	Viburnum rufidulum	30'	15'	20'	x			U	X		Sm			
Sassafras	Sassafras albidum	30'	10'	<u>15'</u>	X				X					
Silverbell (Two wing)	Halesia diptera	<u>25'</u> 20'	10'	<u>15'</u>	X		X	U	x				X	
Snowbell, American	Styrax americana	20'	10'	15'	X		X	U	X			W	X	
Soapberry	Sapindus marginatus	35'	15'	20'	X				X	X				
Sparkleberry Tree	Vaccinium arboreum	20'	10'	15'	х		X		x		Sm		,	
Sugarberry	Celtis laevigata	100'	30'	50'	X			S	X	X				
Sweetgum, Formosa	Liquidambar formosana	40'	20'	30'			X	U						· · · · · · · · · · · · · · · · · · ·
Sweetgum	Liquidambar styraciflua	100'	30'	50'	х				X			W		
Sycamore	Platanus occidentalis	100'	40'	<u>60'</u>	X			S		X	Lrg			
Tulip Tree	Liriodendron tulipifera	100'	25'	40'	х	x		S	X		Lrg	W	X	
Tupelo, Black	Nyssa sylvatica	60'	20'	<u>25'</u>	X	X			X				X	
Tupelo, Ogeechee	Nyssa ogeche	60'	25'	40'	Х				X			W	<u>×</u>	
Tupelo, Swamp	Nyssa biflora	60'	25'	40'	X				X			W	X	
Tupelo, Water	Nyssa aquatica	60'	25'	40'	X				X			W	X	
Viburnum, Walter	Viburnum obovatum	15'	10'	<u>15'</u>	X		X	U	X				X	
Walnut, Black	Juglans nigra	50'	20'	25'	X									
Xylosma (Logwood)	Xylosma Congestum	<u>15'</u>	<u>8'</u>	<u>12'</u>										
Yew, Florida	Taxus floridana	<u>15'</u>	<u>8'</u>	<u>12'</u>	X				X					
	U	= Understor	ry S = shad	de trees in S	Street B	uffer columr	1						5	
	Mature Urban Height refers to the													