

1 CHAPTER 407. - GENERAL DEVELOPMENT STANDARDS

2 ARTICLE IV. - LANDSCAPING

3 Sec. 407.40. - Applicability.

4 (a) The standards established in this article are to be considered the minimum requirements for the
5 design, plant selection, installation and maintenance of landscape elements and site improvements and
6 shall apply to all new development, except for family homestead subdivisions approved in accordance
7 with section 407.75. Except as specifically exempted in Chapter 407 Article VII, TNDs or TODs shall
8 comply with the provisions of this article.

9 (b) The requirements of this article shall also apply to the redevelopment, reconfiguration, expansion
10 or change of use of a previously developed site, unless any of the following exemptions apply:

11 (1) The existing developed impervious area to be retained is 5,000 square feet or less, and the
12 proposed expansion of impervious surface is 500 square feet or less.

13 (2) The existing developed impervious area ~~is to be retained~~ is greater than 5,000 square feet, and the
14 proposed expansion of impervious surface is less than 2,000 square feet, and also less than ten percent
15 of the existing impervious area on the parcel or lot.

16 (3) If at any time during a five-year period, expansions exceed the aggregate of the allowable
17 exemptions listed above, the permit for construction that exceeds the exempted amount shall require
18 full compliance with this article.

19 ~~(c) Prior to the installation of any landscaping within public rights-of-ways, a right-of-way use permit
20 shall be obtained through the Alachua County Public Works Department.~~

21 ~~(d)~~ Single family lots for the purposes of Section 407.46(b).

22 (d) In the event that a principal use and some or all of the parking area (required or otherwise) serving
23 the principal use are located on separate parcels, as permitted by this ULDC, landscape required by this
24 article may be apportioned among all parcels in complementary use as approved by the DRC on the
25 landscape or planting plan.

26 (Ord. No. 05-10, § 2, 12-8-05; Ord. No. 07-07, § 2(Exh. A), 4-27-07; Ord. No. 10-16, § 2(Exh. A), 8-10-10;
27 Ord. No. 12-09, § 2(Exh. A), 10-9-12)

28 Sec. 407.41. - Landscape and planting plan objectives.

29 In order to promote climate change resiliency, reduce and offset greenhouse gas emissions, protect
30 existing natural resources, and to create a healthy and safe environment for citizens, Landscape and
31 planting plans shall be designed to achieve the following objectives:

32 (a) Continuity of on-site and off-site ~~o~~Open ~~s~~Space and greenway systems.

33 (b) Preservation of the natural environment to the greatest extent possible.

34 (c) Protect existing soils and limit clearing, grading, filling, and compaction where possible, and
35 restore and improve soil health, retain nutrients and protect water quality.

36

37 ~~(de)~~ Use of native plants as primary source material, to the extent feasible, in conjunction with
38 appropriate soils and moisture regimes.

39 ~~(ee)~~ Integrate the landscape and stormwater management areas of the proposed development with
40 existing topography, hydrology and soils.

41 ~~(fe)~~ Integrate the functional systems, particularly the drainage systems and internal circulation
42 systems, with the landscape or planting plan.

43 ~~(gf)~~ Promote water conservation through ~~xeriscaping~~ resilient landscaping which requires little to no
44 irrigation once established.

45 ~~(hg)~~ Promote a reduction in stormwater pollution, temperature, and rate of flow from developed
46 areas.

47 ~~(ii)~~ Promote local food systems through use of edible landscape materials where appropriate.

48 ~~(ji)~~ Design stormwater management facilities to resemble natural areas in form and function resulting
49 in a facility that is not required to be fenced.

50 ~~(kj)~~ Limit stormwater management facilities to the maximum extent practicable through ~~the reduction~~
51 of disconnection of impervious surfaces.

52 ~~(lm)~~ Minimize the impact of utility service installations on mature trees.

53 ~~(ml)~~ Address visual privacy, acoustical privacy, noise attenuation and the maintenance of important
54 view sheds relative to adjacent developed properties.

55 ~~(nm)~~ Ensure reduction of noise, ~~heat,~~ glare, water runoff, heat island effect and other conditions
56 concomitant with the construction of expanses of building or pavement within the parcel.

57 ~~(op)~~ Demonstrate that within 20 years 30 percent of the site will be under mature canopy in
58 accordance with Chapter 406, Article II. Rural/Ag subdivisions with unpaved roads and family homestead
59 subdivisions are exempt from this provision.

60 ~~(pe)~~ Deciduous tree canopy should be concentrated along the southern and western exposures of
61 buildings so as to enhance shading and energy conservation.

62 (Ord. No. 05-10, § 2, 12-8-05; Ord. No. 12-09, § 2(Exh. A), 10-9-12; Ord. No. 2018-23, § 2(Exh. A), 10-9-
63 18)

64

65 Sec. 407.42. - Types of plans.

66 All development that requires development plan approval requires submittal and approval of one of the
67 following:

68 (a) *Landscape plan.* For all uses requiring the installation of more than 2,000 square feet of new
69 planted areas, a landscape plan shall be submitted and prepared by a state registered landscape

70 architect. The plan shall include irrigation plans for any permanent irrigation and a soil augmentation plan consistent
71 with Section 407.46. Irrigation plans for any permanent irrigation shall be included in all landscape plans in
72 accordance with the requirements of section 407.46. Irrigation plans must be approved by the Alachua
73 County Environmental Protection Department prior to installation, as required by Article VI of Chapter
74 77 Water Quality Code.

75 (b) *Planting plan.* For all uses requiring the installation of less than 2,000 square feet of new planted
76 areas, a planting plan may be submitted by either a landscape designer or a state registered landscape
77 architect. Irrigation plans for any permanent irrigation shall be included in all planting plans in
78 accordance with the requirements of section 407.46. Irrigation plans must be approved by the Alachua
79 County Environmental Protection Department prior to the installation of irrigation systems, as required
80 by Article VI of Chapter 77 Water Quality Code.

81 (Ord. No. 05-10, § 2, 12-8-05; Ord. No. 12-09, § 2(Exh. A), 10-9-12)

82 Sec. 407.43. - Required buffers.

83 (a) *General provisions for required buffers.*

84 (1) Buffers on residential developments shall be designated as common areas and shall not be
85 included within lots.

86 (2) Buffers on nonresidential sites may be included within lots and counted toward setback
87 requirements.

88 (3) No structures are permitted in buffers except fire hydrants, concrete valve markers, underground
89 utility markers, switches, bus shelters or benches, incidental signs not exceeding two square feet in area,
90 and screening.

91 (4) No parking is permitted within a buffer area.

92 (5) Buffer areas may include portions of the stormwater management system if the applicant
93 demonstrates that the character and intent of the buffer is not diminished. At a minimum, the buffer
94 shall include all of the required plantings at the normal grade of the site at the property line.

95 (6) Pedestrian access through a buffer to adjacent uses may be ~~permitted~~required.

96 (7) Utility lines may cross the buffer provided that the amount of buffer compromised is minimized
97 while maintaining the specified number of plantings required in Table 407.01.2. ~~The character and~~
98 ~~intent of the buffer shall not be diminished by the design needs of utility separations or layouts.~~

99 (8) Trails within a buffer may be permitted provided the character and intent of the buffer is not
100 diminished.

101 (9) Existing non-invasive vegetation may be used to fulfill buffering and screening requirements where
102 such existing natural vegetation is of sufficient height or can be augmented to reach a sufficient height
103 and opacity to provide an effective visual and acoustical buffer giving consideration to the existing and
104 proposed uses.

105 (b) *Required project boundary buffers.*

106 (1) Project boundary buffers shall be located along the outer perimeter of the parcel to be developed
 107 extending inward from the parcel boundaries.

108 (2) Minimum buffer types required on property boundaries between zoning districts are shown in the
 109 Table 407.43.1.

110 Table 407.43.1

111 Project Boundary Buffer Standards

Zoning or Existing Use of Subject Property	Zoning or Existing Use of Adjacent Property						
	A A-RB	Single Family Residential	Multifamily Residential; Churches (any district)	AP BP HM RP (non-residential)	BR BR-1 BH BA BA-1 BW	ML	MS MP
A, A-RB	None	AG	AG	None	None	None	None
Single Family Residential	AG	None	L	M	H	H	H
Multifamily Residential; Churches (any district)	AG	M	None	L	M	H	H
AP, BP, HM, RP (non-residential)	None	H	M	None	None	L	M
BR, BR-1, BH, BA, BA-1, BW	None	H	M	None	None	L	M
ML	None	H	H	L	L	None	L
MS and MP	M	H	H	M	M	L	None
KEY TO BUFFER TYPES: See Below in Table 407.43.2							

112

113

114 (3) Minimum width and planting specifications for required project boundary buffers are shown in the
 115 table below:

116 Table 407.43.2

117 Project Boundary Buffer Minimum Width and Planting

		Plant Material Per 100 Linear Ft.
--	--	-----------------------------------

Buffer Type	Minimum Width	Canopy Tree	Understory Tree	Evergreen Tree	Shrub	Screening
AG - Agriculture	5 feet	0	0	0	10	No
L - Low	15 feet	2	2	0	0	No
M - Medium	25 feet	3	4	0	40	Yes
H - High	40 feet	5	7	3	60	Yes

118 * plant material specified in the table above are separate and distinct components of each 100 linear ft.
119 of buffer planting

120 (4) The DRC may reduce the required buffer width by up to 50 percent where it can be shown by the
121 applicant that the reduction is warranted by unique site features or characteristics. This may include,
122 but is not limited to, situations where the buffer area would be located adjacent to a water body or
123 Open Space area or if a permanent buffer exists on the adjacent property.

124 (5) The DRC may approve the placement of a buffer at an adequate distance from the parcel boundary
125 when it can be shown that a conflict exists with an existing utility easement or to accommodate unique
126 site features or characteristics provided the character and intent of the buffer is not diminished.

127 (c) *Project boundary buffer—landscaping and screening.*

128 (1) Appropriate tree species for planting in buffers are listed in Table 407.50.1.

129 (2) Plant materials and installation shall meet the requirements of sections 407.44 and 407.45.

130 (3) The required planting shall generally be in an irregular line and spaced or grouped to provide a
131 natural appearance.

132 (4) The plant materials specified by Table 407.43.2 are separate and distinct components of each
133 the minimum materials required per 100 linear feet of buffer; the total quantity of materials required
134 shall be determined by dividing the actual length of the buffer.

135 (5) Canopy trees shall be planted no closer than three feet from any property line. Buffer material
136 shall be spaced so as to occupy the entire width of the buffer so as to provide the greatest buffering.

137 (6) Where screening is required or proposed in conjunction with a project boundary buffer as
138 indicated in Table 407.43.1 the location of the wall, fence or berm within the buffer strip shall be subject
139 to the determination of the development review body and it shall consist of:

140 a. A minimum six-foot tall masonry wall such as brick, stone, granite, concrete block or concrete
141 panels;

142 b. A minimum six-foot tall opaque fence, such as vinyl or wood (no chain link);

143 c. Existing dense vegetation [407.43(a)9]; or

144 d. A berm three feet in height, located entirely within the buffer and planted with materials that at
145 maturity shall reach a combined minimum height of six feet, shall have a stabilized slope of one to three
146 (1:3) rise/run, and shall be completely covered with shrubs, sod or other landscape quality living ground
147 cover.

148 (7) Where a wall or fence is used to satisfy the screening requirements of Table 407.43.1, the
149 following requirements apply:

150 a. Pedestrian connections through walls or fences that can provide access to adjacent neighborhoods
151 or other uses ~~are encouraged~~ may be required.

152 b. Walls and fences more than 100 feet long shall have varying wall alignments, use appropriate
153 scale/massing for planted materials, and include decorative features and sound absorbing or scattering
154 materials.

155 (d) *Required roadway buffers.* The following types of roadway buffers shall be required (road
156 classifications are provided in the transportation mobility element of the comprehensive plan). Any
157 vegetation planted near driveway and road intersections shall be selected so that the requirements of
158 Article III, subsection 407.38(d) for a clear sight triangle can be met. Publicly accessible multi-use trails,
159 bikepaths and/or sidewalks and walkways may be provided within a roadway buffer provided the
160 character and intent of the buffer is not diminished.

161 (1) *Interstate I-75 buffers.*

162 a. All development within urban residential future land use designations shall provide a High density
163 buffer, as described in Table 407.43.2, along the entire project boundary adjacent to the I-75 right-of-
164 way. This buffer shall not be reduced in width.

165 b. All other development shall provide a medium density buffer, as described in Table 407.43.2, along
166 the entire project boundary adjacent to the I-75 right-of-way. This buffer shall not be reduced in width.

167 2. *Arterial or collector street buffers.* All developments located along either an arterial or a collector
168 street shall be required to provide one of the following buffers along the entire street frontage. Arterial
169 and collector street buffers shall average ten feet in width provided that no portion of the street buffer
170 shall be less than five feet in width.

171 a. Three canopy trees per 100 linear feet of property frontage, located within a ten-foot wide
172 landscape buffer; or

173 b. Two canopy trees and two understory trees per 100 linear feet of property frontage, located within
174 a ten-foot wide landscape buffer; or

175 c. Under utility lines only, four understory trees per 100 linear feet of property frontage, located
176 within a ten-foot wide landscape buffer.

177 (3) *Local street buffers.* Local street buffers shall only be required for nonresidential, mixed-use or
178 multi-family developments located across a local street from a single family residential district. In such a
179 case, at the time of development or expansion, the nonresidential, mixed-use or multiple-family
180 development shall provide the required project boundary buffer along the street frontage.

- 181 4. *Measurements.*
- 182 a. Driveway widths (measured at the inside edge of the buffer) shall not be counted in the calculation
183 of the plant material required.
- 184 b. All buffers shall be measured from the future right-of-way line determined during development
185 plan review, unless additional public utility easement is required between the right-of-way line and the
186 buffer to provide utility clearance.
- 187 c. If a street is platted but has not been constructed, it shall be buffered and treated as a street, even
188 where no pavement currently exists.
- 189 d. Vehicular access easements shall not be treated as a street, but shall be buffered as a project
190 boundary buffer outside the easement area. The buffer may be provided on either side of the easement.
191 (Ord. No. 05-10, § 2, 12-8-05; Ord. No. 06-14, § 2(Exh. A), 7-20-06; Ord. No. 09-01, § 2(Exh. A), 2-24-09;
192 Ord. No. 09-05, § 2(Exh. A), 9-8-09; Ord. No. 12-09, § 2(Exh. A), 10-9-12; Ord. No. 15-06, § 2(Exh. A), 4-
193 14-15; Ord. No. 2018-23, § 2(Exh. A), 10-9-18)
- 194 Sec. 407.43.1. - Required tree plantings and landscaping.
- 195 (a) *Pedestrian walkways.*
- 196 (1) Areas dedicated to pedestrian circulation that are not coincident with a street shall have canopy
197 trees spaced no more than an average of 40 feet on-center.
- 198 (2) Utility allocations shall be designed to provide utilities' required separation between trees and
199 utility facilities.
- 200 (3) Canopy tree species are identified in Table 407.50.1.
- 201 (b) *Street trees.*
- 202 (1) Street trees shall be provided along both sides of streets and roads ~~or~~ and in medians, consistent
203 with Table 407.141.1, Street Design Specifications.
- 204 (2) Street trees shall be provided within a minimum planting strip of eight feet in width, except as
205 allowed below. Larger planting strips may be required for certain tree species, as shown in Table
206 407.50.1. Trees shall be planted in the center 30 percent of the planting strip.
- 207 a. Alternative planting systems may be used to reduce the minimum planting strip width. Alternative
208 planting systems include, but are not limited to, engineered soils, tree grates, and root barriers.
- 209 b. Street trees planted in commercial or mixed-use districts may be planted in tree wells or sidewalk
210 cutouts. Each tree must be provided with a minimum planting area of 24 square feet from compacted
211 material to a depth of 18 inches. Those street trees eligible for use in tree wells or sidewalk cutouts are
212 identified in Table 407.50.1.
- 213 c. Street trees in commercial or mixed-use districts may be planted in islands or bulb-outs where on-
214 street parking and mid-block pedestrian crossings are present. Planting islands or bulb-outs shall have a

215 minimum pervious area of 90 square feet and be free of compacted soil to a depth of 18 inches. Those
216 street trees eligible for use in islands or bulb-outs are identified in Table 407.50.1.

217 d. In constrained conditions on local roads within subdivisions, trees may be planted no closer than
218 three feet from face of curb.

219 (3) Planting strips, medians, roundabouts, islands, bulb-outs, or other planting areas may be
220 depressed to accommodate stormwater runoff. Where curb is required, curb cuts may be used to
221 permit the flow of water into the depressed planting area. Stormwater overflow must be
222 accommodated.

223 (4) Street trees shall be spaced so that the distance between two adjacent trunks is no less than one
224 half the sum of their 20-year canopy crowns and no more than the sum of their 20-year canopy crowns.

225 (5) Within the Urban Cluster street trees where appropriate shall be planted no further than 14 feet
226 from the back of curb. Where curbs are not proposed along roadways, street trees must be located on
227 the back side of the roadside swale unless it is planted outside the clear zone or space required in this
228 ULDC.

229 (6) Street trees shall be planted between the street and the sidewalk whenever space permits to
230 protect pedestrians and calm traffic.

231 (7) Street trees other than those shown in Table 407.50.1 may be allowed subject to appropriate
232 planting requirements.

233 (c) *Landscaping in paved ground surface areas.*

234 (1) Screening shall be provided where a paved ground surface area lies within 50 feet of, and is visible
235 from any street right-of-way. The screening shall consist of sufficient shrubs to provide a visual screen of
236 75 percent opacity. The shrubs shall achieve a minimum height of three feet within three years. Shrubs
237 shall be planted in a strip no less than five feet in width and may be planted in any required street
238 buffer.

239 (2) For all paved ground surface areas, it shall be demonstrated that at least 50 percent of the paved
240 ground surface area will be under mature canopy within 20 years. To minimize the heat island effect,
241 the canopy trees shall be oriented to maximize shading of the paved ground surface area from the south
242 and west.

243 (3) Terminal landscape islands with trees shall always be required at the end of a row of parking
244 spaces. Appropriate tree species for planting in landscape islands within a paved area are identified in
245 section 407.50. The ~~minimum~~ width of a terminal landscape island in any one direction shall be the
246 same as the minimum planting areas established in Table 407.45.1.

247 (4) No more than ~~15~~ 10 contiguous parking spaces in a row, or parking rows greater than 90 linear
248 feet, may be allowed without a landscape island.

249 (5) Required landscape islands shall contain landscaping materials only and shall not contain utilities
250 or other infrastructure equipment such as fire hydrants, parking lot lights, transformers, air conditioning
251 units or water meters. Islands may be added (in addition to the required landscape islands) for
252 placement of utility infrastructure equipment, which do not require any landscape materials to be

253 placed within them. When feasible, shrubs or other landscape material shall be provided to screen the
254 equipment.

255 (6) Landscape islands and other landscape strips may be depressed to accommodate stormwater
256 management. Curbs separating landscaped areas from parking areas may have curb cuts or be
257 perforated to allow stormwater runoff to pass through them. Stormwater overflow must be
258 accommodated.

259 (7) Utility allocations shall be designed to provide utilities' required separation between trees at full
260 maturity and utility services. Utility separation requirements may be modified by the utility owner and
261 can be affected by various installation techniques such as sheet-piling. Such modifications to utility
262 separation requirements shall be supported in as much as they allow for tree requirements to be met
263 and shall not be construed in such a way as to reduce the provision of required trees within the
264 landscape.

265 (8) When vehicular use areas intersect a public right-of-way, landscaping shall be used to define the
266 intersection, provided that all landscaping shall conform to the Florida Department of Transportation's
267 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and
268 Highways.

269 (9) The following additional buffering shall be provided where off street loading exists:

270 a. Off street loading areas shall be screened from any residential district. Screening shall be consistent
271 with the requirements of subsection 407.43(c)7.

272 b. Screening of off-street loading areas may be waived by the reviewing body if the adjacent use will
273 not be adversely impacted, such as in the event both uses have facing loading bays.

274 c. In the ML district off-street loading areas shall be screened from any public right-of-way or office
275 use. Screening shall be consistent with the requirements of subsection 407.43(c)(7).

276 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

277 Sec. 407.43.2. - Landscape design of stormwater management facilities.

278 (a) Stormwater management facilities shall be designed to resemble natural areas in form and
279 function, and shall be consistent with Article IX, Stormwater Management, of this chapter.

280 (b) Stormwater management areas shall be landscaped with native species of trees, shrubs, and
281 perennials appropriate to the function as a wet or dry basin.

282 (c) The basin and the landscaping area shall be designed to:

283 (1) Be an integral part of the overall development as a physical or visual amenity that provides:

284 a. Usable public or civic space; or

285 b. An aesthetic focal point or feature, such as a pond, creek or other water feature, utilizing curvilinear
286 shapes and a diversity of appropriate plant species.

287 (2) Preserve existing tree groupings.

288 (3) Include canopy trees spaced no more than an average of every 35 linear feet around the basin
289 perimeter.

290 (4) Maintain at least 25 percent of the area of the basin, including the shoulders and maintenance
291 area, using native landscape plantings, excluding sod.

292 (5) Be integrated with the landscape or planting plan for the site.

293 (6) Identify areas for access for normal and routine basin maintenance. Landscape plantings shall not
294 reduce the width of the required maintenance access.

295 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

296 Sec. 407.43.3. - Landscaping in utility service areas.

297 (a) Proposed overhead or underground utility service facilities shall be designed to provide clearance
298 from the mature height of trees and landscaping proposed on the landscape plan.

299 (b) Existing overhead or underground utility service facilities shall be considered in the design of the
300 landscaping to provide clearance from the mature height of trees and landscaping.

301 (c) Any vegetation within a public utility easement shall conform to accepted vegetation management
302 standards. In all cases the minimum requirements of this article shall be met.

303 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

304 Sec. 407.43.4. - ~~Xeriscape~~Resilient Landscaping requirements.

305 ~~Xeriscaping-Resilient landscaping~~ is a type of quality landscaping that does not require the ongoing
306 application of fertilizer and permanent irrigation, conserves water and protects the environment and is
307 adaptable to local conditions and which are drought tolerant. ~~Xeriscape-Resilient landscaping~~ techniques
308 maximize the conservation of water use with site appropriate plants, an efficient watering system when
309 necessary, proper planning and design, soil analysis, practical use of appropriate turf species, the use of
310 compost and the protection of native soils and vegetation, and proper maintenance. ~~mulches (which~~
311 ~~may include the use of solid waste compost) and proper maintenance. The followin~~The following water
312 efficient principles shall be applied to the landscape or planting plan:

313 (a) All plantings shall meet the design standards in Chapter 77, Article VI Article Sec. 77.61. ~~be~~
314 ~~grouped in zones according to water requirements and shall be irrigated in zones separating high water~~
315 ~~use areas from drought tolerant zones. The zones are as follows:~~

316 ~~(1) High water use zone: A zone containing plants which are associated with moist soils and require~~
317 ~~supplemental water in addition to natural rainfall to survive. This zone includes most turf grasses.~~

318 ~~(2) Moderate water use zone: A zone containing plants which survive on natural rainfall with~~
319 ~~supplemental water during seasonal dry periods.~~

320 ~~(3) Low water use zone: A zone containing plants which survive on natural rainfall without~~
321 ~~supplemental water.~~

322 (b) ~~Fifty percent of the plants used in all vehicular use area landscape designs shall be drought~~
323 ~~tolerant and located in groupings according to zones designated by the water requirements.~~

324 (c) Turf grass areas shall be consolidated and limited to those areas on the site that receive pedestrian
325 traffic, provide for recreational uses, provide soil erosion control such as berms, slopes and swales,
326 where turf grass is used as a design unifier or other similar practical use. Preference should be given to
327 turf grass species that can thrive without irrigation.

328 (d) All planting areas shall be mulched with three inches of organic mulch, such as pine bark or
329 shredded hardwood chips. Mulch shall be placed directly on soil or landscaping fabric and be properly
330 edged to retain mulch.

331 (e) Plant material shall be selected that is best suited to withstand the growing and soil conditions
332 which are found in the microclimate of each particular location on the site.

333 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

334 Sec. 407.43.5. - Crime prevention through environmental design standards.

335 Physical design of all landscaped areas subject to normal pedestrian access shall promote the concept of
336 crime prevention through environmental design (CPTED) by utilizing landscape planting, pavement
337 designs and gateway and entrance treatments to achieve the following:

338 (a) Natural surveillance, through the placement of physical features and lighting of public spaces and
339 walkways at night, in such a way as to maximize visibility, while maintaining or minimizing impacts to
340 surrounding areas.

341 (b) Natural access control, through the physical guidance of people coming and going from a space by
342 the placement of fencing, landscaping and lighting.

343 (c) Territoriality, through the use of physical attributes that express ownership, such as fences,
344 pavement treatments, art, signage and landscaping.

345 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

346 Sec. 407.43.6. - Firewise requirements.

347 Landscape or planting plans within wildfire hazard areas should incorporate firewise landscaping
348 techniques to help reduce the risk of wildfire. Such techniques shall include:

349 (a) Creating a defensible space zone around buildings. Such zones shall provide space for fire
350 suppression equipment in the event of an emergency and progressively limit plantings near structures to
351 carefully spaced fire resistant species.

352 (b) Placing low growing species and groundcovers beneath canopy trees and rooflines to avoid
353 creating a continuous fuel source from ground to tree or roof.

354 (c) Utilizing driveways, lawn areas and walkways to provide firebreaks between large areas of dense
355 vegetation.

356 (d) Selective thinning of fire prone plant species in existing vegetation areas to reduce fuel loads. A list
357 of fire prone species shall be available from the Environmental Protection Department.

358 (Ord. No. 12-09, § 2(Exh. A), 10-9-12)

359 Sec. 407.44. - Required plant materials.

360 (a) *Required tree species variety.* New tree plantings shall not include more than 50 percent of any one
361 genus or 25 percent of any one species.

362 (b) *Plant quality.* Plant materials shall meet the following minimum standards:

363 (1) All nursery plants, including trees, shrubs and groundcovers shall conform to standards for Florida
364 Grade #1 or better according to the current, most recent edition of "Grades and Standards for Nursery
365 Plants", 2nd edition, published by the Florida Department of Agriculture and Consumer Services,
366 Division of Plant Industry, and available from the Florida Nursery, Growers, and Landscape Association
367 (FNGLA). Nursery invoices or labels shall clearly specify that Grade #1 or better plants were purchased
368 for installation.

369 (2) All sod shall be certified apparently free of noxious weeds by the Florida Department of Agriculture
370 and Consumer Services, Division of Plant Industry.

371 (3) All mulch shall be organic material, with hardwood or pine bark recommended. Cypress shall not
372 be used as mulch. No plastic or other non-biodegradable weed cloth or surface covers shall be used
373 where mulch is required.

374 (c) *Required plant sizes and species.*

375 (1) *Trees.*

376 a. All trees shall be selected from the list of tree species provided in Table 407.50.1 that specifies
377 which trees should be selected for use in buffers, along walkways and streets and in parking lots. Any
378 variation from this list shall be approved by the county forester/landscaping inspector.

379 b. Trees shall meet the minimum size standards shown in Table 407.44.1.

380 Table 407.44.1

381 Minimum Tree Standards

Tree Location	Minimum Size		
	Height (ft)	Caliper	Container
Street Tree, Tree Grate/Well, Parking Islands	10	2"	25 gals

Basin Areas and Other Areas	4	¾"	7 gals
-----------------------------	---	----	--------

382

383 c. The DRC may approve the use of desirable native species that are not generally available in the
 384 required minimum size provided that the sum of the caliper planted is equal to or greater than the
 385 required caliper specified above.

386 (2) *Shrubs.*

387 a. Shrubs shall consist of woody evergreen and/or non-deciduous plants a minimum of two feet in
 388 height in a minimum three-gallon container. When planted as a hedge, the maximum spacing for 24-
 389 inch high shrubs shall be 36 inches on center.

390 b. Shrub species that are significantly larger than the required minimum in paragraph a above may be
 391 counted as two or more shrubs, on a case-by-case basis, if approved by the DRC. Spacing for the larger
 392 size shrubs shall be determined by the county forester/landscaping inspector.

393 c. Shrubs shall be selected from the list of native species available from the Alachua County
 394 Environmental Protection Department and from the department of growth management.

395 (3) *Ground covers.* Ground covers other than turf grass shall be planted in such a manner as to present
 396 a finished appearance and reasonably complete coverage within one year after planting.

397 (4) *Lawn grass.* ~~Grass areas shall be planted with species normally grown as permanent lawns in the~~
 398 ~~vicinity of Alachua County.~~ Grass areas may be sodded, plugged, sprigged or seeded except that solid
 399 sod shall be used in swales or other areas subject to erosion.

400 (5) *Synthetic plants.* Synthetic or artificial turf, trees, shrubs, ground covers or vines shall not be used
 401 in lieu of the plant requirements in this article.

402 (d) *Prohibited plants.*

403 (1) Those plants listed in Florida Administrative Code section 62c-52.011, Prohibited Aquatic Plants,
 404 shall be prohibited. This list of prohibited aquatic plants is available online and copies are also available
 405 from the Alachua County Environmental Protection Department (EPD).

406 (2) Those plants listed in Florida Administrative Code section 5B-57.007, "State Noxious Weed List"
 407 shall be prohibited. This list of prohibited noxious weeds is available online and copies are also available
 408 from the county.

409 (e) *Credit for existing plants.*

410 (1) Credit is permitted for existing plant material provided such material meets the minimum
 411 standards of this article.

412 (2) Credit shall be allocated on a one-for-one basis for shrubs, understory trees and substituted trees.
 413 The size of the material shall not be taken into consideration except where such material is below the
 414 minimum standards of this article.

|

415 (Ord. No. 05-10, § 2, 12-8-05; Ord. No. 09-01, § 2(Exh. A), 2-24-09; Ord. No. 12-09, § 2(Exh. A), 10-9-12)

DRAFT

|

Sec. 407.45. - Installation.

(a) Landscape areas for installed trees shall conform to the following chart. Landscape areas may be depressed to accommodate stormwater runoff provided stormwater overflow is accommodated.

Table 407.45.1
Tree Installation Standards

Tree Type	Within Parking Areas		Outside Parking Areas
	Min. Pervious Area	Min. Planting Area	Min. Planting Area
Canopy trees and other large trees	200 s.f.	140 s.f.	200 s.f.
Understory trees and other small trees	120 s.f.	90 s.f.	120 s.f.

* Minimum dimension in any direction is eight feet unless otherwise specified.

(b) All landscaping and transplanting of landscape materials shall be installed according to sound horticultural principles. All installations shall be performed specific to type, species, soils, environmental conditions and include establishment through water and maintenance to ensure ~~maximum~~ survivability.

(1) The required planting area shall be free from compacted material to a minimum depth of 18 inches.

(2) The planting hole for trees shall be a minimum of two to three times the size of the width of the rootball, and sloped outward to encourage new root growth.

(3) Plants shall be removed from their containers prior to installation.

(4) Planting areas containing trees and shrubs shall be mulched to a minimum depth of three inches with organic mulch to the perimeter of the root-ball but not within a radius of six to eight inches from the trunk.

(5) After planting and watering in, the top of the rootball shall be one to two inches above ground.

(6) Trees shall be staked and guyed as needed. ~~§~~Biodegradable stakes and guys shall be maintained during the guarantee period, and removed as soon as the tree is established.

(7) ~~Trunk protectors are recommended for a~~All installed trees shall have eight to ten inch trunk protectors to protect the tree trunks from mower and string trimmer damage. Trees in turf areas shall have six inch (minimum) trunk protectors.

(8) All landscaped areas not covered with vegetation shall be covered with organic mulches. No plastic or other non biodegradable weed cloth or surface covers shall be used.

(Ord. No. 05-10, § 2, 12-8-05; Ord. No. 12-09, § 2(Exh. A), 10-9-12)

Sec. 407.46. - Required irrigation and soil augmentation plans.

(a) Irrigation plans~~Landscape plans.~~

(1) All required landscaping shall be provided, at minimum, with a temporary automatic irrigation system or alternative establishment plan sufficient for the establishment and ongoing health of all required landscaping plant material. ~~Where available, reclaimed water shall be used for landscape irrigation. Use of harvested rainwater or stormwater reuse for irrigation is encouraged. The use of irrigation wells is discouraged. Where possible low volume irrigation shall be used.~~

(2) The irrigation ~~plansystem~~ or alternative establishment plan shall be designed by a landscape architect, Florida Water Star Certified Accredited Professional, or a certified irrigation designer and shall be installed according to the manufacturer's specifications and the most recent edition of the Standard Plumbing Code, 1994 Edition, promulgated by the Southern Building Code Congress International, Inc. The irrigation plan must meet the requirements in Article VI of Chapter 77 Water Quality Code.

~~Irrigation plans for any permanent irrigation shall be included in all landscape and planting plans.~~

(3) ~~Where automatic irrigation systems are proposed, water conservation shall promote water conservation shall be maximized by employing such methods as micro-irrigation or efficient sprinkler zoning. The irrigation system shall be designed and located to minimize the watering of impervious surfaces. Trees shall have individual low flow or micro-irrigation supplies. Once trees and other plant materials are established, the use of the temporary irrigation system shall be discontinued.~~

(4) ~~Moisture sensors, weather stations, evapotranspiration (ET) sensors, or rain gauge (automatic rainfall shutoff device) equipment shall be required on automatic irrigation systems. A functioning soil moisture sensor based controller or weather based controller that inhibits or interrupts operation of the system during periods of sufficient moisture shall be required on all irrigation systems to avoid irrigation during periods of sufficient rainfall.~~

(5) Prior to the installation of any irrigation systems within a public right-of-way, a right-of-way use permit shall be obtained from the Alachua County Public Works Department. Such system installation shall meet the construction and inspection standards of the public works department.

(b) ~~Soil Augmentation Plans and Requirements. Soil Augmentation is required for irrigable areas of 2,000 square feet or greater.~~

(1) ~~Newly planted areas of 2,000 square feet or greater shall incorporate soil amendments into the soil to a depth of at least 6 inches at a rate of four cubic yards of amendment per 1,000 square feet or at the current UF/IFAS rate as recommended in an EDIS document. This requirement does not apply to stormwater basin bottoms and sides, or any areas that retain existing soil and vegetation.~~

(2) ~~Soil amendments shall use certified compost certified by the U.S. Composting Council where available. Soil amendments should be in accordance with the current guidance provided by UF/IFAS and shall conform to the following:~~

~~a. The amended soil shall Have an organic matter content of ten (10) percent or greater and a pH between 6.0 and 8.0, and~~

~~b. -Be free from noxious weeds and roots, salts, clay lumps, any nonsoil materials such as rock, concrete, brick chips, or building materials, foreign matter, and any chemicals, biological or radiological contaminants and biosolids as a feedstock ingredient.~~

-(3) New single family construction proposing a permanent irrigation system shall meet the requirements of 407.46(b) 1 and 2 above regardless of the size of the newly planted area.

~~*Alternative xeriscape plan.* Temporary or minimal irrigation systems acceptable to xeriscape practices may be used when an alternative xeriscape plan has been approved by the DRC. An alternative xeriscape plan may be approved by the DRC when the applicant can assure the health and survivability of all landscaping plant materials.~~

(Ord. No. 05-10, § 2, 12-8-05; Ord. No. 12-09, § 2(Exh. A), 10-9-12)

Sec. 407.47. - Maintenance.

(a) The property owner, association or entity shall be responsible for the maintenance of all landscape areas in accordance with the approved landscape or planting plans. The property owner shall ensure that irrigation systems on their property are inspected at least annually for leaks, overspray, maladjusted heads, and heads that may be capped due to changes in the landscape, such as maturity or changes in plants. Technology that inhibits or interrupts operation of the system during periods of sufficient moisture may need to be replaced periodically and shall be correctly functioning. Irrigation systems with known leaks shall not be operated until the leaks are repaired, except for testing purposes.

(b) Upon determination by the county, or county-designated qualified specialist, that a required tree or plant is dead or severely damaged or diseased, the tree or plant shall be replaced by the owner with the same or equivalent plant material as approved by the county, in accordance with the standards specified in this article.

(c) All landscaped areas required as part of a development plan including buffers, whether in common or private ownership, shall be the responsibility of that development's property owners' association. Where there is no property owners' association, such landscaped areas shall be the responsibility of the property owner.

(d) All trees may be pruned to maintain shape and promote their shade-giving qualities. They should be pruned to remove diseased or dying portions in areas where falling limbs could be a hazard to people or property. Lower limbs may be removed to provide clearance for pedestrians. In addition, trees located in association with vehicular use areas shall also be 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 overgrowing driveways should be pruned a maximum of 14 feet to allow the passage of emergency vehicles. However, the excessive pruning or pollarding of trees into round balls of crown or branches, which results in an unnecessary reduction of shade, shall be prohibited, and may require supplemental plantings. All pruning shall be done following the American National Standard for Tree Care Operations "Tree, Shrub and Other Woody Plant Maintenance Management - Standard Practices (Pruning)."

(Ord. No. 05-10, § 2, 12-8-05)

Sec. 407.48. - Alternative compliance.

(a) The provisions of this article shall be liberally construed to effectively carry out the purpose and the intent of the ~~Alachua~~ Alachua County ~~e~~ Comprehensive ~~p~~ Plan and of this article in the interest of the health, safety and welfare of the residents of the county.

(b) An applicant may submit a landscape or planting plan which varies from the strict application of the requirements of this article in order to accommodate unique site features or characteristics or to utilize innovative design.

(c) An alternative compliance landscape, irrigation, ~~or~~ planting or soil augmentation plan may be approved only upon a finding that it fulfills the purpose and intent of the Alachua County Comprehensive Plan and of this article as well as or more effectively than would adherence to the strict requirements.

(d) In evaluating proposed alternative compliance ~~landscape or planting~~ plans, considerations shall be given to proposals which preserve native vegetation and use ~~xeriscape~~ climate resilient and other low water use landscape design principles and where the design ensures the maximum preservation of existing vegetation on the site.

(Ord. No. 05-10, § 2, 12-8-05)

Sec. 407.49. - Certificate of compliance.

(a) No final certificate of occupancy shall be issued until the county has granted final approval and acceptance of the installed landscape as well as the protection of existing native vegetation. Final approval shall include as-built landscape plan certification from a registered landscape architect certifying that the landscaping is installed and functioning as intended, that prohibited and discouraged non-native vegetation listed in Table 406.16.2 has been removed, and that all of the provisions of this chapter have been met. The land owner shall submit a certificate of compliance, in a form acceptable by the director, to the county as a condition of issuance of a certificate of occupancy. For blocks within TODs/TND's, a phasing of landscaping installation may be approved by an administrative development plan in order to allow the issuance of a certificate occupancy for each building separately.

(b) A temporary certificate of occupancy may be issued in those instances where all other site improvements except landscape have been completed, and when weather conditions are not conducive to planting. Such temporary issuance is subject to the developer certifying in writing and posting of an appropriate surety in the amount of 110 percent of the certified estimated cost of completion that the required landscaping, as depicted on the approved plan, will be installed within a time period acceptable to the county.

(c) Failure to install or maintain landscaping according to the terms of this article or any approved plan shall constitute a violation of this article and subject to the remedies and penalties set forth in chapter 409 of this ULDC.

(Ord. No. 05-10, § 2, 12-8-05; Ord. No. 2018-23, § 2(Exh. A), 10-9-18)

Sec. 407.50. - Appropriate tree plantings.

The list of trees identified in Table 407.50.1 below includes all of those appropriate to Alachua County that shall be used to meet the requirements of this article.

Table 407.50.1
Appropriate Tree Plantings

Native Scientific Name	Common Name	Maximum Height (feet)	Estimated Crown (20-year) (feet)	Canopy or Understory	Appropriate Planting Location	Street tree minimum planting area (feet)
Acer negundo	Boxelder maple	50	30	C,U	O,B	N/A
Acer rubrum	Red maple	80	25	C,U	S,O,P,B	8
Acer saccharinum	Silver maple	60	25	C,U	O,B	N/A
Acer saccharum subsp. floridanum	Florida maple	60	25	C,U	S,O,P,B	8
Aesculus pavia	Red buckeye	40	10	U	O,B	N/A
Aralia spinosa	Devil's-walkingstick	30	10	U	O,B	N/A
Betula nigra	River birch	60	25	C,U	S,O,B	8
Carpinus caroliniana	American hornbeam	40	25	U	S,O,B	8
Carya aquatica	Water hickory	100	30	C	O,B	N/A
Carya cordiformis	Bitternut hickory	100	30	C	O,B	N/A
Carya floridana	Scrub hickory	50	30	C	O,B	N/A
Carya glabra	Pignut hickory	100	30	C	O,B	N/A
Carya tomentosa	Mockernut hickory	100	30	C	O,B	N/A

Castanea pumila	Florida chinquapin	50	30	C	O,B	N/A
Catalpa bignonioides	Southern catalpa	60	20	C,U	O,B	N/A
Celtis laevigata	Sugarberry	100	45	C	O,B	N/A
Cercis canadensis	Redbud	30	25	U	S,T,O,P,B	8
Chamaecyparis thyoides	Atlantic white cedar	80	20	C,U	O,B	N/A
Chionanthus virginicus	White fringe tree	30	10	U	O,B	N/A
Cornus florida	Flowering dogwood	40	25	U	S,O,B	8
Crataegus michauxii	Michaux's hawthorn	25	15	U	S,O,B	8
Diospyros virginiana	Common Persimmon	100	25	C,U	S,T,O,P,B	8
Fagus grandifolia	American beech	100	30	C,U	O,B	N/A
Fraxinus americana	White ash	75	40	C	S,O,P,B	8
Fraxinus caroliniana	Carolina pop ash	60	25	C	S,O,P,B	8
Fraxinus pennsylvanica	Green ash	90	30	C	S,O,B	8
Fraxinus profunda	Pumpkin ash	100	30	C	O,B	N/A
Gleditsia aquatica	Water locust	50	25	C,U	O,B	N/A
Gleditsia triacanthos	Honey locust	70	25	C,U	O,B	N/A
Gordonia lasianthus	Loblolly bay	90	20	C,U	O,B	N/A
Ilex cassine	Dahoon Holly	50	20	C,U	O,B	N/A

Ilex opaca	American holly	50	25	C,U	S,T,O,P,B	8
Ilex x attenuata 'East Palatka'	Est Palatka holly	50	20	C,U	S,T,O,P,B	8
Ilex x attenuata 'Savannah'	Savannah holly	50	20	C,U	S,T,O,P,B	8
Juglans nigra	Black walnut	60	25	C	O,B	N/A
Juniperus virginiana	Southern red cedar	60	25	C,U	S,O,P,B	8
Liquidambar styraciflua	Sweetgum	100	30	C	O,B	N/A
Liriodendron tulipifera	Tulip tree	100	25	C	S,O,P,B	8
Magnolia grandiflora	Southern magnolia	80	20	C,U	S,O,P,B	8
Magnolia grandiflora 'Little Gem'	Little gem magnolia	30	10	U	S,O,B	8
Magnolia grandiflora 'Alta'	Alta magnolia	40	10	U	S,T,O,B	8
Magnolia macrophylla	Bigleaf magnolia, Ashe magnolia	20	15	U	O,B	N/A
Magnolia virginiana	Sweetbay magnolia	80	20	C,U	S,O,P,B	8
Malus angustifolia	Crabapple	25	15	U	O,B	N/A
Morus rubra	Red mulberry	50	30	U	O,B	N/A
Myrica cerifera	Waxmyrtle	30	10	U	O,B	N/A
Nyssa aquatica	Water tupelo	100	25	C	S,O,B	8

<i>Nyssa ogeche</i>	Ogeechee tupelo,	80	25	C	S,O,B	8
<i>Nyssa sylvatica</i> var. <i>biflora</i> or <i>sylvatica</i>	Swamp tupelo, Blackgum	100	25	C	S,O,B	8
<i>Osmanthus americanus</i>	Wild olive, Devilwood	40	20	U	S,O,B	8
<i>Ostrya virginiana</i>	Ironwood, Hop hornbeam	40	25	C,U	S,T,O,P,B	8
<i>Persea borbonia</i> var. <i>borbonia</i> or <i>humilis</i>	Red bay or Silk bay	60	25	C,U	O,B	N/A
<i>Pinus clausa</i>	Sand pine	90	25	C	O,B	N/A
<i>Pinus echinata</i>	Shortleaf pine	100	25	C	O,B	N/A
<i>Pinus elliotii</i>	Slash pine	110	25	C	S,O,B	8
<i>Pinus glabra</i>	Spruce pine	90	25	C	S,O,B	8
<i>Pinus palustris</i>	Longleaf pine	90	25	C	S,O,B	8
<i>Pinus serotina</i>	Pond pine	100	25	C	O,B	N/A
<i>Pinus taeda</i>	Loblolly pine	110	25	C	O,B	N/A
<i>Planera aquatica</i>	Water elm, Planer tree	40	30	C,U	O,B	N/A
<i>Platanus occidentalis</i>	Sycamore	90	40	C	S,O,P,B	8
<i>Populus deltoides</i>	Eastern Cottonwood	70	30	C	O,B	N/A
<i>Prunus americana</i>	American plum	30	20	U	S,T,O,P,B	8

Prunus angustifolia/umbellata	Chickasaw, Flatwoods, Hog plum	20	15	U	S,O,P,B	8
Prunus caroliniana	Cherry-laurel	40	20	U	S,T,O,P,B	8
Prunus serotina var. serotina	Black cherry	80	30	C	S,O,P,B	8
Ptelea trifoliata	Wafer ash, Hop-tree	20	10	U	O,B	N/A
Quercus alba	White oak	90	25	C	S,O,P,B	8
Quercus chapmanii	Chapman's oak	40	20	C	S,O,P,B	8
Quercus falcata	Spanish oak, Southern red oak	100	30	C	S,O,P,B	8
Quercus geminata	Sand live oak	60	30	C	S,O,P,B	8
Quercus incana	Bluejack oak	50	25	C	S,O,P,B	8
Quercus laevis	Turkey oak	60	25	C	S,O,P,B	8
Quercus laurifolia (hemisphaerica)	Laurel oak	90	35	C	O,P,B	N/A
Quercus lyrata	Overcup oak	80	25	C	S,O,B	8
Quercus margaretta	Sand post oak	70	30	C	S,O,P,B	8
Quercus marilandica	Blackjack oak	50	25	C	S,O,B	8
Quercus michauxii	Basket oak, Swamp chestnut oak	100	25	C	S,O,B	8
Quercus muehlenbergii	Chinquapin oak	50	20	C	S,O,B	8
Quercus myrtifolia	Myrtle oak	30	15	U	O,B	N/A

Quercus nigra	Water oak	90	35	C	O,P,B	N/A
Quercus pagoda	Cherrybark oak	80	30	C	S,O,P,B	8
Quercus phellos	Willow oak	60	20	C	S,O,P,B	8
Quercus shumardii	Shumard oak	100	30	C	S,O,P,B	8
Quercus sinuata	Bluff oak	90	30	C	S,O,P,B	8
Quercus stellata	Oak, post	80	25	C	S,O,P,B	8
Quercus virginiana	Oak, live	80	45	C	S,O,P,B	8
Rhamnus caroliniana	Buckthorn, Carolina	20	10	U	O,B	N/A
Sabal palmetto	Palm, cabbage	60	15	C,U	S,T,O,B	8
Salix caroliniana	Carolina willow	40	15	U	O,B	N/A
Salix floridana	Florida willow	20	15	U	O,B	N/A
Salix nigra	Black willow	60	15	U	O,B	N/A
Sapindus saponaria	Soapberry	50	25	C,U	S,O,P,B	8
Sassafras albidum	Sassafras	40	15	U	O,B	N/A
Sideroxylon tenax	Tough bully	30	10	U	O,B	N/A
Taxodium ascendens	Pond cypress	90	20	C	S,O,P,B	8
Taxodium distichum	Bald cypress	100	20	C	S,O,P,B	8
Tilia americana var. caroliniana	Carolina basswood	80	25	C	O,B	N/A
Ulmus alata	Winged elm	100	40	C	S,T,O,P,B	8
Ulmus americana	Florida elm	100	35	C	S,T,O,P,B	8

Ulmus crassifolia	Cedar elm	100	30	C	S,T,O,P,B	8
Ulmus rubra	Slippery elm	60	20	C	S,O,P,B	8
Vaccinium arboreum	Sparkleberry, Farkleberry	20	15	U	S,T,O,P,B	8
Viburnum obovatum	Walter viburnum	30	15	U	O,B	N/A
Viburnum rufidulum	Rusty blackhaw	20	15	U	O,B	N/A
Zanthoxylum clavaherculis	Hercules club	50	25	U	O,B	N/A

Non-Native Scientific Name	Common Name	Maximum Height (feet)	Estimated Crown (20-year) (feet)	Canopy or Understory	Appropriate Planting Location	Street tree minimum planting area (feet)	<u>N/A</u>
Butia capitata	Pindo palm	20	15	C, U	S,T,O	8	<u>N/A</u>
Callistemon rigidus	Stiff bottlebrush	60	15	U	S,T,O	8	<u>N/A</u>
Callistemon viminalis	Weeping bottlebrush	30	15	U	S,T,O	8	<u>N/A</u>
Carya illinoensis	Pecan	100	35	C	S,O,P	8	<u>N/A</u>
Cedrus deodara	Deodar cedar	40	20	C, U	S,O,P	8	<u>N/A</u>
Chionanthus retusus	Fringe tree, Chinese	30	15	U	S,O	8	<u>N/A</u>
Citrus spp.	Citrus	20	10	U	O	N/A	<u>N/A</u>

<i>Cryptomeria japonica</i>	Japanese cedar	60	15	C, U	S,O	8	<u>N/A</u>
<i>Cunninghamia lanceolata</i>	China fir	60	15	C, U	S,O	8	<u>N/A</u>
X <i>Cupressocyparis leylandii</i>	Leyland Cypress	30	15	U	S,O	8	<u>N/A</u>
<i>Cupressus sempervirens</i>	Italian cypress	70	10	U	S,T,O	8	<u>N/A</u>
<i>Ilex rotunda</i>	Round holly	30	15	C, U	S,T,O,P	8	<u>N/A</u>
<i>Lagerstroemia indica</i> (large varieties)	Crape myrtle	40	15	U	S,T,O	8	<u>N/A</u>
<i>Liquidambar formosana</i>	Formosa sweet gum	50	20	C	S,O,P	8	<u>N/A</u>
<i>Magnolia</i> spp.	Oriental magnolia	30	15	U	S,O	8	<u>N/A</u>
<i>Metasequoia glyptostroboides</i>	Dawn redwood	70	15	C	S,O,P	8	<u>N/A</u>
<i>Parkinsonia aculeata</i>	Jerusalem-thorn	15	10	U	O	N/A	<u>N/A</u>
<i>Phoenix</i> spp.	Date palm	60	25	C	S,T,O,P	8	<u>N/A</u>
<i>Pistacia chinensis</i>	Chinese pistachio	60	25	C	S,O,P	8	<u>N/A</u>
<i>Platycladus orientalis</i>	Oriental arborvitae	50	10	U	S,O	8	<u>N/A</u>
<i>Podocarpus macrophylla</i>	Japanese yew	40	15	C, U	S,T,O,P	8	<u>N/A</u>
<i>Podocarpus nagi</i>	Nagi podocarpus	50	20	C, U	S,T,O,P	8	<u>N/A</u>
<i>Prunus campanulata</i>	Flowering cherry	20	15	U	S,T,O	8	<u>N/A</u>

Pyrus calleryana	Aristocrat pear	40	15	C, U	S,T,O,P	8	<u>N/A</u>
Quercus acutissima	Sawtooth oak	60	25	C	S,O,P	8	<u>N/A</u>
Robinia pseudoacacia	Locust, black	40	20	C	O	N/A	<u>N/A</u>
Salix babylonica	Weeping willow	40	30	C, U	S,O,P	8	<u>N/A</u>
Ulmus parvifolia	Chinese elm, Drake elm	40	35	C, U	S,T,O,P	8	<u>N/A</u>
Ulmus pumila	Siberian elm	30	15	C, U	S,T,O	8	<u>N/A</u>
Washingtonia robusta	Washington palm	80	15	C	S,T,O	8	<u>N/A</u>

N/A

LEGENDS:

Appropriate Planting Location		Canopy tree = provides larger amount of shading high above ground
S	Street tree	Understory tree = provides lower amount of shading near the ground
T	Tree Grate/Well	
B	Basin Area	
P	Parking Islands	
O	Other Areas including Common Areas and Buffers	

ADDITIONAL COMMENTS:

~~All trees on the Alachua County Tree List except pines and palms are suitable for reforestation.~~

(Ord. No. 05-10, § 2, 12-8-05; Ord. No. 06-14, § 2(Exh. A), 7-20-06; Ord. No. 09-01, § 2(Exh. A), 2-24-09; Ord. No. 12-09, § 2(Exh. A), 10-9-12; Ord. No. 15-06, § 2(Exh. A), 4-14-15; Ord. No. 2016-10, § 2(Exh. A), 6-28-16)

New Definitions:

Resilient landscaping: landscaping practices that do not include the application of fertilizer and permanent irrigation and are more resilient to extreme weather conditions.

DRAFT