

Trees to be Removed

Interior Protected Trees			Exterior Protected Trees		
Ref #	Cal.	Type	Ref #	Cal.	Type
#156	11.5	CHR	#127-p	8.5	OAK
#177	11.5	OAK	#117-p	8.5	OAK
#169	11.5	OAK	#193-p	11	OAK
#181	11.5	OAK	#114-p	12	OAK
#182	12	OAK	#126-p	13	OAK
#167	12	OAK	#120-p	13	OAK
#131	12	OAK	#191-p	14	OAK
#147	12	OAK	#189-p	15	OAK
#159	12	OAK	#119-p	16	OAK
#149	13	CHR	#116-p	16	OAK
#186	13	OAK	#115-p	16	OAK
#181	13	OAK	#103-p	17	OAK
#180	13	OAK	#118-p	28	OAK
#187	13	OAK	#113-p	12	PINE
#174	13	OAK	#101-p	16	PINE
#151	13	OAK	#102-p	19	PINE
#135	13	OAK	0	0	0
#145	13	OAK	0	0	0
#188	14	CHR	0	0	0
#179	15	OAK	0	0	0
#175	15	OAK	0	0	0
#182	17	OAK	0	0	0
#139	17	OAK	0	0	0
#122	17	OAK	0	0	0
#123	17	OAK	0	0	0
#140	18.5	OAK	0	0	0
#170	19	OAK	0	0	0
#168	20	OAK	0	0	0
#142	21	OAK	0	0	0
#185	21	OAK	0	0	0
#176	23	OAK	0	0	0
#154	24	OAK	0	0	0
#125	24	OAK	0	0	0
#183	28	OAK	0	0	0
#183	32	OAK	0	0	0
#185	32	OAK	0	0	0
#178	38	OAK	0	0	0
#148	48	OAK	0	0	0
#136	8	PINE	0	0	0
#129	10	PINE	0	0	0
#130	12	PINE	0	0	0
#153	12	PINE	0	0	0
#133	14	PINE	0	0	0
#160	14	PINE	0	0	0
#157	17	PINE	0	0	0

NOTE: Reference Number follow by (p) indicates perimeter trees

Interior Summary

Live Oaks	0
Long Leaf Pine	0
Hardwoods 24" & greater	227
Hardwoods 11.5 to 24"	500.5
Pines 11.5 to 24"	69
Hardwoods under 11.5	0

Perimeter Summary

Live Oaks	0
Long Leaf Pine	0
Hardwoods 24" & greater	28
Hardwoods 11.5 to 24"	132
Pines 11.5 to 24"	47
Hardwoods under 11.5	28
Pines under 11.5	0

Total Summary

Live Oaks	0
Long Leaf Pine	0
Hardwoods 24" & greater	255
Hardwoods 11.5 to 24"	632.5
Pines 11.5 to 24"	116
Hardwoods under 11.5	28
Pines under 11.5	0

Replacement Trees / Plant Schedule

Qty	Botanical Name	Common Name	Caliper	Subtotal	Shade Tree	Native Species
8	Ilex attenuata 'Savannah'	'Savannah' Holly	4	32	Yes	Yes
14	Lagerstroemia indica	Crape Myrtle	8	112	No	No
13	Quercus virginiana	Live Oak	6	78	Yes	Yes
28	Ulmus parvifolia 'Drake'	'Drake' Elm	4	112	Yes	No
63				334	78%	33%
297	Ilex glabra	Inkberry	24" Ht. Min.		VUA Buffer Hedge	Yes

86% Total Planting Native

Mitigation Summary

Mitigation Required	515		
Replacement Tree Inches	334		
Mitigation Balance Due COJ	181	X \$103 / inch = \$18,643.00	(to be paid into COJ Tree Bank Fund)

TREE MITIGATION REQUIREMENTS- (commercial)

	LIVE OAKS	LONG LEAF PINE	HARDWOOD 24" AND OVER	HARDWOOD UNDER 24" - 11.5"	PINES UNDER 24" - 11.5"	HARDWOODS 11.5" and UNDER	PINES 11.5" and UNDER	PALM	
<b>PROTECTED TREES REMOVED</b>									
- 0 - LIVE OAK @ 1:1	= - 0 -								
- 0 - LONG LEAF PINE @ 1:3		= - 0 -							
255" HARDWOOD OVER 24" @ 1:1			= 255"						
632.5" HARDWOOD UNDER 24"-11.5" @ 1:3				= 632.5"/3 = 211"					
116" PINES UNDER 24"-11.5" @ 1:3					= 116"/3 = 39"				
28" HARDWOODS UNDER 11.5" @ 1:3						= 28"/3 = 10"			
0" PINES UNDER 11.5" @ 1:3							= - 0 -		
0" PALM @ 1:3								= 0"	
<b>TOTAL</b>	= - 0 -	= - 0 -	= 255"	= 211"	= 39"	= 10"	= 0"	= 0"	<b>TOTAL DEFICIT: 515"</b>
<b>TREES TO BE PROVIDED</b>									
LIVE OAKS	= 18"								
LONG LEAF PINE		= - 0 -							
HARDWOOD 24" AND OVER			= 134" (Crape Myrtle & Sav. Holly)						
HARDWOOD UNDER 24"-11.5"				= 112" (Elms)					
PINES UNDER 24"-11.5"					= 0"				
HARDWOODS UNDER 11.5"						= 10" (Crape Myrtle)			
PINES UNDER 11.5"							= 0"		
PALM								= 0"	
<b>TOTAL</b>	= + 18"	= - 0 -	= - 121"	= - 99"	= - 39"	= - 0 -	= - 0 -	= - 0 -	<b>TOTAL DEFICIT: 181"</b>

TREE MITIGATION KEY

- ✕ PROTECTED TREE TO BE REMOVED
- ⊗ UNPROTECTED TREE TO BE REMOVED
- △ UNPROTECTED TREE TO BE PRESERVED
- TREE TO BE PRESERVED

Mitigation Calculations

LANDSCAPE CALCULATIONS		City of Jacksonville	
Zoning:	Commercial	V.U.A. Public Area:	35,252 s.f.
10% V.U.A. Required Landscape Area:	3,525.2 s.f.	Landscape Area Provided:	3,762 s.f.
25% of 10% V.U.A. Required Shrub Area:	881.3 s.f.	Shrub Area Provided:	250 s.f.
<b>PERIMETER AREA REQUIREMENT BREAKDOWN</b>			
Perimeter Area - North Side (Street Frontage):	265.74 s.f.	(10 s.f./l.f. = 10 x 265.74 l.f.)	
Area Required:	2,657.4 s.f.	Area Provided:	3,500 s.f.
Perimeter Area - South Side:	230 s.f.	(5 s.f./l.f. = 5 x 230 l.f.)	
Area Required:	1,150 s.f.	Area Provided:	2,500 s.f.
Perimeter Area - East Side:	297.88 s.f.	(10 s.f./l.f. = 10 x 297.88 l.f.)	
Area Required:	2,978.8 s.f.	Area Provided:	3,250 s.f.
Perimeter Area - West Side:	271.28 s.f.	(5 s.f./l.f. = 5 x 271.28 l.f.)	
Area Required:	1,356.4 s.f.	Area Provided:	1,750 s.f.
<b>PERIMETER AND INTERIOR TREE REQUIREMENT BREAKDOWN</b>			
Internal Landscape:		(1 Tree / 4,000 s.f. = 35,252 s.f./4,000 s.f.)	
Trees Required:	9	Trees Provided:	12
Perimeter Trees - North Side (Street Frontage):	265.74 l.f.	(1 Tree / 50 l.f.)	
Trees Required:	6	Trees Provided:	11
Perimeter Trees - South Side:	230 l.f.	(1 Tree / 50 l.f.)	
Trees Required:	5	Trees Provided:	13
Perimeter Trees - East Side:	297.88 l.f.	(1 Tree / 50 l.f.)	
Trees Required:	6	Trees Provided:	13
Perimeter Trees - West Side:	271.28 l.f.	(1 Tree / 50 l.f.)	
Trees Required:	6	Trees Provided:	14

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**Walgreen's**  
Normandy Blvd. and Fouraker Road  
A Development by:  
**Rock Ventures, LLC**  
CALCULATIONS, NOTES & DETAILS

TREE MITIGATION & REPLACEMENT NOTES:

A. REPLACEMENT TREES:

- Trees shall have a minimum height of (8) eight to (10) ten feet and (2) two inches of caliper.
- Vegetation that exceeds twenty-five (25) feet in height at maturity should not be planted closer than fifteen (15) feet of the vertical plane of an existing power line, excluding service wires.
- Balled and burlapped strapping wire, and any synthetic material shall be removed prior to final inspection. Wire baskets should be pulled away from the trunk.
- Trees shall not be planted closer than ten (10) feet from other trees unless approved by the County administrator.
- Trees shall be offset from pressurized utilities by 7.5'.
- New trees are not allowed within pond easements.
- 70% of newly planted trees need to be canopy trees.
- No more than 50% of newly planted trees need to be of the same species.
- Soil in tree islands shall have at least 12" of suitable soil for tree plantings and be void of any construction debris or unsuitable materials.

B. SHRUBS:

- Shrub lines are to be planted at the required minimum height, not by container size.

- Minimum 24" tall at planting (measured from ground level) planted with a maximum spacing of (3) three feet.
- MULCH:
  - Mulch shall be provided a minimum of four (4) inches in depth around all newly planted landscaping.
  - A mulch ring for all newly planted trees shall be provided at least five (5) feet in diameter and not closer than six (6) inches from the tree trunk must be provided for all newly planted landscape.
- IRRIGATION:
  - Irrigation will be provided with either an automatic irrigation system or hose bibs within 50 feet of all newly planted material, unless approved alternate means for establishment of planted material is provided.
- GENERAL NOTES:
  - Plant material shall conform to the standards for Grade #1 or better as given in the latest "Grades & Standards for Nursery Plants, Parts I & II," Florida Department of Agriculture and Consumer Services or to the standards as given in the latest "American Standard for Nursery Stoc," American National Standards Institute.
  - All plants must be container-grown (cont.) or balled & burlapped (b&b) as indicated in the plant list.
  - All trees must be straight trunked, full headed & meet all requirements specified.
  - All trees shall be guyed or staked as shown in the details. All plants shall meet size, container, and spacing specifications. Any material not meeting specifications shall be removed and replaced at the Contractor's expense.

- Contractor shall be responsible to receive approval from the Landscape Architect and the County of all plant bed layouts and tree locations prior to installation. If plant material is installed prior to Landscape Architect's and County approval, Contractor will be subject to relocating the material at the Landscape Architect's request and the Contractor's own expense.
- All plants & planting areas must be mulched to a minimum depth of 4". Refer to plant list for specifics.
- Contractor shall perform soil tests prior to construction and amend with lime and sulfur as needed.
- Contractor shall be responsible for fine grading. Grading shall be subject to the approval of the Landscape Architect.
- Refer to specifications for additional requirements.
- Contractor shall submit unit prices for all bid items.
- Soil shall be free from lime rock and construction debris.
- All plant quantities shown and identified in tables are to agree. In the event of a conflict between quantities represented on the plan vs. quantities shown on the tables, the tables take precedent.
- Landscape Contractor shall be responsible for their own take offs
- All plants will be required to be full and healthy. Contractor shall arrange for plant approval prior to delivery, either by samples, photos, or nursery visits.

- Prior to construction, the Landscape Contractor shall be responsible for locating all underground utilities & shall avoid damage to all utilities during the course of the work. The Landscape Contractor is responsible for repairing any & all damage to utilities, structures, site appurtenances, etc. which occur as a result of the landscape construction.
- Contractor shall be responsible for warranty of health of plants in on-site soils. If during digging, Contractor discovers water-logged, clayey, compacted or similarly poorly drained soils, it should be brought to the attention of Owner/Landscape Architect for remedial action.
- The Landscape Contractor is responsible for fully maintaining all planting (including, but not limited to: watering, spraying, mulching, fertilizing, etc.) of planting areas & lawns until the work is accepted in total by the Landscape Architect and the Owner.
- The Landscape Contractor shall completely guarantee all plant material for a period of one (1) year beginning at the date of substantial completion. The Landscape Contractor shall promptly make all replacements before or at the end of the guarantee period (as directed by the Owner).
- The Landscape Architect will approve the staked location of all plant material prior to installation.
- After being dug at the nursery sources, all trees in leaf shall be acclimated for two (2) weeks under a mist system prior to installation.
- Any plant material which dies, turns brown or defoliates (prior to total acceptance of the work) shall be promptly removed from the site & replaced with material of the same species, quantity, size and meeting all plant list specifications and quantities.

**SUNSHINE DESIGN**  
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DATE  
12-05-2008

DRAWN BY  
JCC / SP

SHEET NO.

**LS-3**