CITY OWNED TREE TECTION AND VIOLATIONS

IN ADDITION TO THE REQUIREMENTS OF UDO 4.5 AND 4.7, THE FOLLOWING SHALL ALSO BE OBSERVED PERTAINING TO CITY PROJECTS AND CITY OWNED TREES ADJACENT TO PRIVATE DEVELOPMENT PROJECTS. THIS DOCUMENT SHALL BE MADE A PART OF ALL CITY CONTRACTS AND THEIR SPECIFICATIONS.

I. TREE PROTECTION: TREE PROTECTION FENCING SHALL BE CREATED PRIOR TO ANY EARTH DISTURBING ACTIVITY IS BEGUN. FENCING SHALL CONSIST OF EITHER CHAIN LINK OR ORANGE PLASTIC MINIMUM 4 FEET IN HEIGHT. FENCING SHALL BE ANCHORED TO BE SOUND TO SAY. NO ACTIVITY SHALL OCCUR WITHIN THE FENCED AREA. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES. SIGNAGE SHALL BE AFFIXED TO THE FENCING INDICATING THE AREA AS A TREE SAVE AREA AND NOT TO BE ENCROACHED UPON. SIGNAGE SHALL BE IN ENGLISH AND SPANISH. FENCING SHALL RUN JUST THE ENTIRE DRIPLINE OF THE TREE. DRIPLINE SHALL BE DEFINED AS A CIRCLE, THE RADIUS OF WHICH EQUALS THE GREATER DISTANCE TO THE BRANCH TIPS REGARDLESS OF THE ORIENTATION OF THE BRANCH.

II. PARTIAL INJURY: CITY FORESTRY STAFF WILL CONDUCT A PRE-CONSTRUCTION SURVEY TO RECORD ANY EXISTING DAMAGE OR INJURIES THAT MAY BE PRESENT. ANY DAMAGE DISCOVERED IN THIS SURVEY SHALL BE DOCUMENTED WITH PHOTOS AND THESE PHOTOS MADE AVAILABLE TO THE GENERAL CONTRACTOR.

ANY WOUND EITHER ABOVE OR BELOW GROUND LEVEL SHALL CONSTITUTE A VIOLATION. CITY FORESTRY STAFF SHALL DETERMINE THE EXTENT OF INJURY ALONG WITH THE APPROPRIATE LEVEL OF PENALTY/FINE. STAFF SHALL USE THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS GUIDE FOR PLANT APPRAISAL, 9TH EDITION/GTLA GUIDE/, OR THE MOST CURRENT EDITION TO DETERMINE AMOUNT OF PENALTY.

PARTIAL INJURIES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- BROKEN OR BRUISED BARK OR CAMBIUM (THE LAYER OF LIVING CELLS BETWEEN THE WOOD AND THE BARK)
- CUTTING BRANCHES
- BREAKING BRANCHES
- CUTTING ROOTS OR FILLING OVER ROOTS WITHIN THE TPZ OR SAVE AREA
- SOIL COMPACTION WITHIN THE TREE SAVE AREA (INCLUDE FOOT TRAFFIC WITHIN THE AREA
- TOXIC RUN-OFF WITHIN THE TREE SAVE AREA

PARTIAL INJURY SHALL BE DETERMINED AS A PERCENTAGE OF THE TOTAL TREE. ADDITIONALLY, THE COST OF APPRAISAL AND REMEDIATION SHALL BE INCLUDED.

III. FATAL INJURY OR DESTRUCTION: A FATAL INJURY/WOUND THAT CAUSES IMMEDIATE OR EVENTUAL DEATH OF THE TREE. EVENTUAL DEATH BEING DEFINED AS A MARKED DETERIORATION IN THE OVERALL HEALTH OF THE TREE OVER A PERIOD NOT TO EXCEED FIVE YEARS FROM THE DATE OF INJURY. TYPICALLY WHEN A PARTIAL INJURY EQUALS OR EXCEEDS 50%. THE INJURY IS CONSIDERED FATAL.

FATAL INJURIES SHALL RESULT IN FINES EQUAL TO THE FULL VALUE OF THE TREE PRIOR TO INJURY AS DETERMINED USING THE GTLA GUIDE. COSTS OF APPRAISAL AND REMOVAL OF THE TREE AND STUMP SHALL BE ADDED TO THE AMOUNT OF FINE.

IV. FINE SCHEDULE: FINES FOR PARTIAL INJURIES SHALL BE ASSESSED TO THE GENERAL CONTRACTOR REGARDLESS OF WHO IS DIRECTLY RESPONSIBLE FOR THE DAMAGE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INFORM ANY AND ALL SUBCONTRACTORS OF THE REQUIREMENTS.

PENALTIES:

1ST VIOLATION	WRITTEN WARNING
2ND VIOLATION	$250.00
3RD VIOLATION	$500.00
4TH VIOLATION	$1000.00
5TH VIOLATION AND HIGHER	EACH SUCCESSIVE VIOLATION SHALL BE DOUBLE THE PREVIOUS VIOLATION

CITY OF COLUMBUS TREE PRESERVATION NOTES:

1. ALL TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO AND MAINTAINED THROUGHOUT THE LAND DISTURBING AND CONSTRUCTION PROCESS, AND SHALL NOT BE REMOVED UNTIL FINAL LANDSCAPING IS INSTALLED.

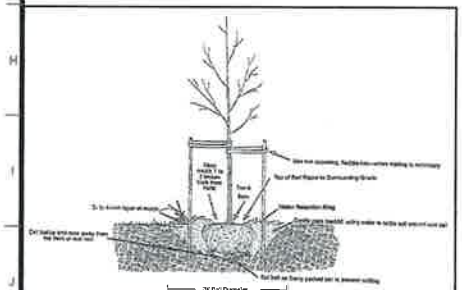
2. TREE PROTECTION FENCING SHALL CONSIST OF CHAIN LINK, ORANGE LAMINATED PLASTIC, WOODEN POST AND TWO RAIL FENCING, OR OTHER EQUIVALENT RESTRAINING MATERIAL. (SEE THE FORESTRY ADMINISTRATOR FOR FENCING ALTERNATIVES)

3. TREE PROTECTION AREA SHALL INCLUDE NO LESS THAN THE TOTAL AREA BENEATH THE TREE CANOPY AS DEFINED BY THE DRIP LINE OF THE TREE OR GROUP OF TREES COLLECTIVELY, UNLESS PRIOR APPROVAL IS RECEIVED FROM THE CITY ARBORIST.

4. TRENCHING SHALL NOT BE ALLOWED IN THE TREE PROTECTION AREA UNLESS PRIOR APPROVAL IS RECEIVED BY THE CITY ARBORIST.

5. SIGNAGE IN RECOMMENDED POSTING THE AREA AS A "TREE SAVE AREA". SIGNS REQUESTING SUBCONTRACTOR COOPERATION AND COMPLIANCE WITH THE PROTECTION STANDARDS ARE RECOMMENDED FOR SITE ENTRANCES.

6. TREES ARE TO BE PROTECTED WITH FENCING AS PER THE DETAIL ON SHT L-2.0. SIDEWALKS CANNOT BE BLOCKED. NO TRENCHING OF ANY KIND (INCLUDING SILT FENCE) IS PERMITTED WITHIN THE DRIPLINE OF ANY CITY TREE WITHOUT NOTIFICATION OF BRIO GRANTHAM AT (706) 653-4340. THE CITY TREE PROPOSED FOR REMOVAL WILL BE EVALUATED AND APPRAISED FOR ITS VALUE ACCORDING TO THE GUIDE FOR PLANT APPRAISAL, NINTH EDITION.



CCG PLANTING TEMPLATE
NOT TO SCALE

PROJECT INFORMATION:

DEVELOPMENT NAME:	FAMILY DOLLAR - COLUMBUS (BUENA VISTA)
PROPERTY ADDRESS:	906 AMISER DRIVE COLUMBUS, MUSCOGEE COUNTY, GEORGIA LAND LOT 20 & 21, 9TH DISTRICT
DEVELOPER:	GARRARD GROUP ONE SUGARLOAF CENTER 1960 SATELLITE BLVD, SUITE 2300 DULUTH, GA 30097 (404) 229-1308 BRENT STONE
ENGINEER:	LECRAW ENGINEERING, INC 4320 SHAWNEE DAM ROAD SUITE 1400 SUWANEE, GA 30024 MR. JEFF S. WILKERSON, P.E. (678) 546-6100
ZONING INFORMATION:	NC

ORDINANCE REQUIREMENTS

TREE DENSITY REQUIREMENT: 3.84 ACRES

TREE DENSITY FACTOR WITH 10' SETBACK	5.0 UNITS
EXISTING DENSITY UNITS =	0 UNITS
NO TREES TO BE REMOVED	
REQUIRED REPLACEMENT UNITS =	4.9 UNITS
7" TREE = 0.5 UNITS	
7" TREE = 0.75 UNITS	
4" TREE = 1.0 UNITS	
6" TREE = 1.25 UNITS	

ADDITIONAL REQUIREMENTS:

MINIMUM PLANT AREA:
2500 S.F. FOR 1ST LARGE/MEDIUM TREE
1000 S.F. FOR EACH ADDITIONAL LARGE/MEDIUM TREE
MIN. 8' WIDE PLANTING
ISLANDS REQUIRED 2' OF UNDISTURBED SOIL

ISLAND SPACING:
EACH END OF SPACE WITHIN 60' OF TREE
EACH MIDDLE SPACE WITHIN 60' OF TREE
REPEATER TREES TO BE PLANTED IN LINE W/ STRIPING

BUFFER REQUIREMENTS:

'A' STREET BUFFER (OPTION 1):	
BUENA VISTA ROAD	170 LINEAR FEET
1 LARGE TREE/100 LINEAR FEET	2 TREES
25 SHRUBS/100 LINEAR FEET	44 SHRUBS
AMISER DRIVE	225 LINEAR FEET
1 LARGE TREE/100 LINEAR FEET	3 TREES
25 SHRUBS/100 LINEAR FEET	57 SHRUBS
TYPE 'C' BUFFER (OPTION 2 - 15' WIDE):	
EASTERN PROPERTY LINE	286 LINEAR FEET
25 SHRUBS/100 LINEAR FEET MINIMUM	72 SHRUBS

PLANT LIST

TREES:

BOTANICAL NAME	COMMON NAME	QUANTITY	MIN SIZE	SPACING	TREE TYPE	UNIT SIZE	UNITS	COMMENTS
(BN)	Betula nigra 'Heritage'	9	4" CAL	25' O.C.	DECIDUOUS CANOPY	1	9	MULTI-TRUNK
(QC)	Quercus cerris 'Bonfire'	2	3" CAL	15' O.C.	DECIDUOUS UNDERSTORY	0.5	1	4' CLEAR BELOW CANOPY
(NS)	Nyssa sylvatica 'Wildfire' PP19,660	4	3" CAL	10' O.C.	EVERGREEN UNDERSTORY	0.5	2	PYRAMIDAL AND ROUNDED
(UP)	Ulmus parvifolia 'Athena'	5	3" CAL	25' O.C.	DECIDUOUS CANOPY	0.75	3.75	4' CLEAR BELOW CANOPY
	TOTAL NUMBER OF TREES	14				TOTAL UNITS PROVIDED =	16.25	

SHRUBS/HEDGES/ORNAMENTALS:

(IA)	Ilicium parviflorum 'Ariane'	Anise	113	3 GAL	4' O.C.	18" MIN @ PLANTING
(MD)	Miscanthus sinensis 'Gracillimus'	Maiden Grass	74	3 GAL	36" O.C.	18" MIN @ PLANTING
(AG)	Abelia 'Edward Goucher'	Edward Goucher Abelia	25	3 GAL	6' O.C.	18" MIN @ PLANTING
	TOTAL NUMBER OF SHRUBS		212			

GROUNDCOVER/PERENNIALS:

(BG)	Cynodon dactylon 'Bermuda Grass'	Bermuda Grass	1,923 S.F.
(HL)	Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	1,923 S.F.

NOTE: ALL QUANTITIES SHOWN ARE FOR A GENERAL GUIDE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PRIOR TO BIDDING AND INSTALLATION. LECRAW ENGINEERING INC. SHALL TAKE NO RESPONSIBILITY FOR THE ACCURACY OF THE QUANTITIES PROVIDED.

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

NORTH
SCALE IN FEET
0 10 20 40
1" = 20'

1	ADDRESS COMMENTS	07/08/14	JSW

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PREPARED IN THE OFFICE OF
LECRAW ENGINEERING

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WWW.LECRAWENGINEERING.COM PE#008788

CLIENT
GARRARD GROUP
ONE SUGARLOAF CENTER - 1960 SATELLITE BLVD SUITE 2300 - DULUTH, GA 30097

TITLE
LANDSCAPE PLAN

GEORGIA REGISTERED LANDSCAPE ARCHITECT

HORIZONTAL SCALE:	AS NOTED
VERTICAL SCALE:	N/A
DRAWN BY:	JSW
CHECKED BY:	JSW
APPROVED BY:	MSL
DATE:	JULY 7, 2014
JOB NUMBER:	030017
DRAWING NUMBER:	L-1.0

FAMILY DOLLAR - COLUMBUS (BUENA VISTA)
LAND LOT 20 & 21, 9TH DISTRICT
COLUMBUS, MUSCOGEE COUNTY, GEORGIA

Drawing name: L:\030017 – Garrard – FD-Columbus_GA – Buena Vista\CAD\CONSTR\030017 – 11 – LANDSCAPE.dwg LANDSCAPE PLAN Aug 01, 2014 3:01pm by: JeffLeCraw