Tree Replacement Plan - Sheet 3 of 3

Bell Drive Community

City of Smyrna, Georgia Land Lots 809 and 847, 17th District, 2nd Section

property owner:

The Woodbery Group, LLC
950 Lowery Boulevard
Suite #18
Atlanta, Georgia 30318
404-233-1411

0 20 40 80 160
Scale: 1" = 40'
August 4, 2016

north

Removed Specimen Tree Inches			
Tree Number	Tree Species	Tree Size DBH (in inches)	CRZ Radius (in fe
104	Water Oak	24	36
107	Silver Maple	49	74
109	Red Oak	34	51
110	Maple	32	48
112	Water Oak	25	38
	Total Inches:	164	

Preserved Specimen Tree Inches			
Tree Number	Tree Species	Tree Size DBH (in inches)	CRZ Radius
	Total Inches:	0	
	x 3 =	0	

DGM
LandPlanning Consultants
975 Cobb Place Blvd, Suite 212
Kennesaw GA 30144
770 514-9006
Fax 514-9491

GEORGIA LANDSCAPE ARCHITECT 906 DAVID G. MEYER

Tree List

PLANT TYPE	LABEL	QUAN.	COMMON NAME	BOTANICAL NAME	SIZE	HGT.	DENSITY "	RECOMP. "	TOTAL INCHE	MIN. SPACE	% OF TOTAL
Replacement Trees											
(street tree)	GB	6	Ginkgo	Ginkgo biloba	4"Cal.	10'-12'	20	0	20	25' o.c.	20.7%
(street tree)	PC	6	Chinese Pistache	Pistacia chinensis	4"Cal.	10'-12'	20	0	20	25' o.c.	20.7%
(street tree)	UP	5	Lacebark Elm	Ulmus parvifolia	4"Cal.	10'-12'	20	0	20	25' o.c.	17.2%
(street tree)	ZS	6	Zelkova	Zelkova serrata	4"Cal.	10'-12'	20	0	20	25' o.c.	20.7%
(street tree)	QPH	6	Willow Oak	Quercus phellos 'Hightower'	4"Cal.	10'-12'	20	0	20	25' o.c.	20.7%
		29		TOTALS			100	0	100		100.0%

Tree Calculations

Site Area Calculation:
Net Site Area = 3.9 AC

Tree Density Calculation:
3.9 AC x 100"/AC = 390 Total Inches Required
EDF + RDF = SDF
EDF = 594" (594" of non-specimens + 0" of specimens preserved)
RDF = 100" (29 x 4" cal. street trees)
594" + 100" = 694" SDF (with 304" surplus which will count against recompense) therefore density is satisfied

Specimen Tree Recompense Calculation:
164" specimen trees have been removed. (see Tree Survey/Protection Plan)
Therefore, the 100" maximum recompense applies.
100" of recompense has been provided through existing trees to be preserved and street trees.

Street Tree Requirement:
29 trees are required per the street tree requirement (see Tree Replacement Plan). A total of 29 x 4" caliper trees have been provided. Street trees have been placed at every viable and appropriate location possible. The 29 trees are being counted toward recompense requirements since density requirements have been satisfied.

Preserved Non Specimen Tree Inches				
Qty.	Tree Species	Tree Size DBH (in inches)	Total inches	CRZ Radius (in feet)
7		6	42	9
6		7	42	10.5
18		8	144	12
2		9	18	13.5
11		10	110	15
8		12	96	18
4		14	56	21
1		15	15	22.5
1		16	16	24
1		17	17	26
1		18	18	27
1		20	20	30
	Total Inches		594	

Per Arborist's field notes: the 'Tree Preservation Area' marked on the plan, behind the 50' power easement includes small to semi-mature loblolly pineswith a few small hardwoods that include oak, sweetgum and hickory.

City of Smyrna Required Notes:

1. All existing trees, specimen and non-specimen, counted for EDF credits must be fully preserved during individual lot permitting
2. All trees must be planted at least 10' from any utility line.
3. Tree save fence for entire site must be installed, inspected and approved prior to installation of erosion control measures. No land disturbance or demolition is allowed before tree save fencing has been inspected and approved by Community Development Director.
4. The CRZ of Specimen trees receiving a 3X credit shall be protected with 6' chain link tree save fencing spaced 6' on center with metal support posts and Tree Save signage. Installation of tree save fence will involve no trenching. 4" of organic mulch over the CRZ and an above ground irrigation system.

5. The Community Development Director must inspect the site before installation of erosion control measures. Land disturbance without a site inspection and approval by the Community Development Director will result in a "Stop-Work Order" and fines.

6. If tree survey inaccuracies are found on-site, a stop work order will be issued until revised plans are approved and processed based on accurate information.

7. The Community Development Director must inspect and approve the site before the issuance of a Certificate of Occupancy.

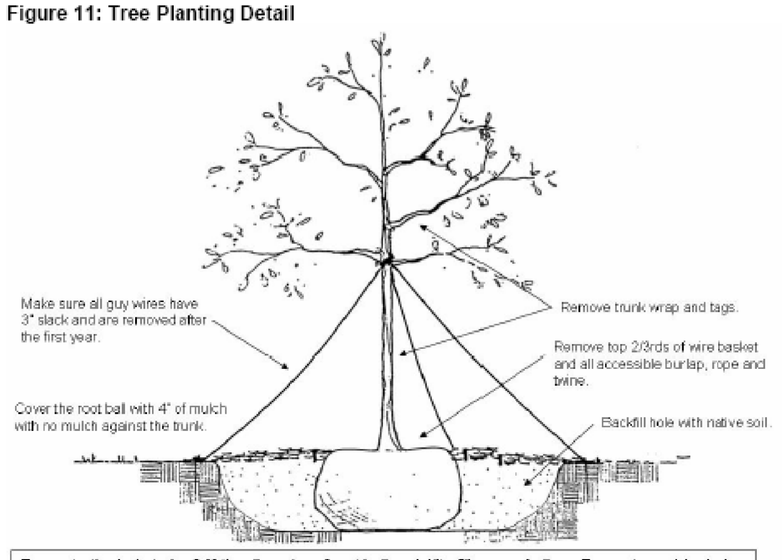
8. Trees agreed upon to be saved is the responsibility of the owner.

9. A 3-4" layer of mulch will be required for the CRZ of Specimen Trees. Mulch must be applied prior to start of construction. Keep mulch at least 5'' from the trunk of the tree.

10. A minimum 3-4" layer of mulch will be required for all existing, non specimen, landscape trees, including street trees and parking lot trees. Mulch must be applied prior to start of construction. Mulch shall not be placed directly against tree trunks.

11. All newly planted trees shall have visible root flares at finished grade. No circling roots shall be allowed on planted trees. The upper 2/3 of the wire basket, all burlap, and strapping shall be cut and removed prior to backfill.

Figure 11: Tree Planting Detail



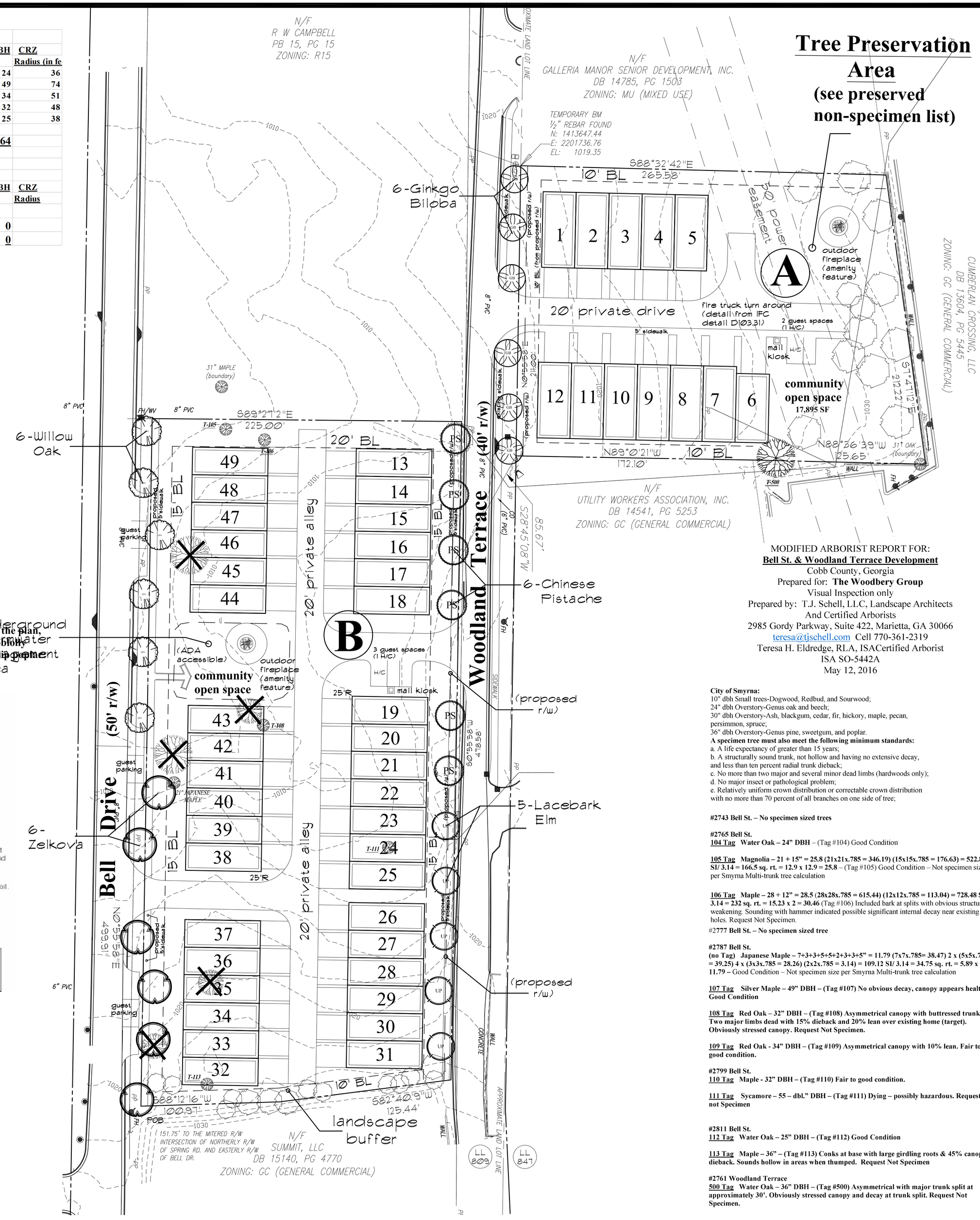
Excavate the hole to be 3 X the diameter of root ball and 1"to 2" more shallow. Excavate a wider hole in poor soils or heavy clays. Allow 400 sq.ft. of soil surface area for each overstory tree and 25' spacing between trees with a minimum 8' wide planting area. Allow 200 sq.ft. of soil surface area for understory trees and 15' spacing between trees with a minimum 8' wide planting area.

12. Trees less than the caliper inch shown will not be accepted. I.e.: 4 inch caliper trees must be 4 inches or larger.

13. Plant height measurement is taken at the top of the main body of the plant and not at the tip of the topmost growth.

14. All newly planted trees shall be equivalent in quality to a Florida #1 grade or better. All trees of lesser quality shall be rejected by the Community Development Director.

15. Watering bags or a drip irrigation system will be provided for all trees prior to issuance of the certificate of occupancy. During first year bags will be refilled weekly by owner and refilled during droughts for a minimum of 2 years after installation.



MODIFIED ARBORIST REPORT FOR:
Bell St. & Woodland Terrace Development
Cobb County, Georgia
Prepared for: **The Woodbery Group**
Visual Inspection only
Prepared by: T.J. Schell, LLC, Landscape Architects
And Certified Arborists
2985 Gordy Parkway, Suite 422, Marietta, GA 30066
teresa@tjschell.com Cell 770-361-2319
Teresa H. Eldredge, RLA, ISACertified Arborist
ISA SO-5442A
May 12, 2016

City of Smyrna:
10" dbh Small trees-Dogwood, Redbud, and Sourwood;
24" dbh Overstory-Genus oak and beech;
30" dbh Overstory-Ash, blackgum, cedar, fir, hickory, maple, pecan, persimmon, spruce;
36" dbh Overstory-Genus pine, sweetgum, and poplar.
A specimen tree must also meet the following minimum standards:
a. A life expectancy of greater than 15 years;
b. A structurally sound trunk, not hollow and having no extensive decay, and less than ten percent radial trunk dieback;
c. No more than two major and several minor dead limbs (hardwoods only);
d. No major insect or pathological problem;
e. Relatively uniform crown distribution or correctable crown distribution with no more than 70 percent of all branches on one side of tree;

#2743 Bell St. – No specimen sized trees

#2765 Bell St.
104 Tag Water Oak – 24" DBH – (Tag #104) Good Condition

105 Tag Magnolia – 21 + 15" = 25.8 (21x21x.785 = 346.19) (15x15x.785 = 176.63) = 522.82 SI/ 3.14 = 166.5 sq. rt. = 12.9 x 12.9 = 25.8 – (Tag #105) Good Condition – Not specimen size per Smyrna Multi-trunk tree calculation

106 Tag Maple – 28 + 12" = 28.5 (28x28x.785 = 615.44) (12x12x.785 = 113.04) = 728.48 SI/ 3.14 = 232 sq. rt. = 15.23 x 2 = 30.46 (Tag #106) Included bark at splits with obvious structural weakening. Sounding with hammer indicated possible significant internal decay near existing holes. Request Not Specimen.

#2777 **Bell St. – No specimen sized tree**

#2787 Bell St.
(no Tag) Japanese Maple – 7+3+3+5+5+2+3+3+5" = 11.79 (7x7x.785= 38.47) 2 x (5x5x.785 = 39.25) 4 x (3x3x.785 = 28.26) (2x2x.785 = 3.14) = 109.12 SI/ 3.14 = 34.75 sq. rt. = 5.89 x 2 = 11.79 – Good Condition – Not specimen size per Smyrna Multi-trunk tree calculation

107 Tag Silver Maple – 49" DBH – (Tag #107) No obvious decay, canopy appears healthy. Good Condition

108 Tag Red Oak – 32" DBH – (Tag #108) Asymmetrical canopy with buttressed trunk. Two major limbs dead with 15% dieback and 20% lean over existing home (target). Obviously stressed canopy. Request Not Specimen.

109 Tag Red Oak - 34" DBH – (Tag #109) Asymmetrical canopy with 10% lean. Fair to good condition.

#2799 Bell St.
110 Tag Maple - 32" DBH – (Tag #110) Fair to good condition.

111 Tag Sycamore – 55 – dbl." DBH – (Tag #111) Dying – possibly hazardous. Request not Specimen

#2811 Bell St.
112 Tag Water Oak – 25" DBH – (Tag #112) Good Condition

113 Tag Maple – 36" – (Tag #113) Conks at base with large girdling roots & 45% canopy dieback. Sounds hollow in areas when thumped. Request Not Specimen

#2761 Woodland Terrace
500 Tag Water Oak – 36" DBH – (Tag #500) Asymmetrical with major trunk split at approximately 30'. Obviously stressed canopy and decay at trunk split. Request Not Specimen.