SUBSTITUTION NOTE:
1. Requirements shown are as per City Zoning Ordinance.
Substitutions are not allowed unless approved by Heibert+Ball Land Design.
2. After installation, the landscape will be maintained by the owner.
3. Additional screening may be required if the inspection for the release of the performance bond reveals that the screening is not effective.

TO AVOID OVERHEAD UTILITY CONFLICTS:
In the event proposed canopy trees are in conflict (within 25') with proposed or existing overhead utility locations, the landscape contractor shall stop work and contact Heibert+Ball Land Design immediately for coordination and field adjustment.

TO AVOID OVERHEAD LIGHT POLE CONFLICTS:
In the event proposed canopy trees are in conflict (within 10') with proposed or existing light pole locations, the landscape contractor shall stop work and contact Heiber+Ball Land Design immediately for coordination and field adjustment

UTILITY SCREEN
All utility structures, transformers, meters, and/or units shall be screened with plant material tall enough to provide an effective screen. Structures not shown on landscape plans will be required to be screened. If utilities are added to the site, contact Heibert+Ball Land Design for screening recommendations

PLANT STANDARDS
The standards set forth in "American Standard for Nursery Stock" represent general guideline specifications only and will constitute minimum quality requirements for plant material. All plants must meet minimum size noted at the materials schedule. And meet the characteristics stated on this drawing. All material installed on the site MUST meet or exceed these specifications. Any trees or shrubs not meeting these standards can be rejected at time of inspection.

TREE SPECIFICATIONS: ALL TREES SHALL HAVE THE FOLLOWING CHARACTERISTICS:
1. Deciduous trees shall have one dominant single straight trunk with the tip of the leader on the main trunk left intact and the terminal bud on the central leader is at the highest point on the tree.
2. Trees with forked trunks are acceptable if all the following conditions are met:
   a. The fork occurs in the upper 1/3 of the tree.
   b. One fork is less than 2/3 the diameter of the dominant fork.
   c. The top 1/3 of the smaller fork is removed at the time of planting.
3. No branch is greater than 2/3 the diameter of the trunk directly above the branch.
4. The trunk and/or major branches shall not touch
5. Several branches are larger in diameter and obviously more dominant.
6. Branching habit is more horizontal than vertical, and no branches are oriented nearly vertical to the trunk.
7. Branches are evenly distributed around the trunk with no more than one major branch located directly above another and the crown is full of foliage evenly distributed around the tree
8. Crown spread shall look proportional to the tree.
9. NO flush cuts or open trunk wounds or other bark injury
10. Root ball meets all ANSI standards and is appropriately sized

DEFICIENCIES NOT ACCEPTED:
1. Tip dieback on 5% of branches
2. Crown thin/spasely foliated
3. Included bark
4. Major Branches touching
5. Asymmetrical branching

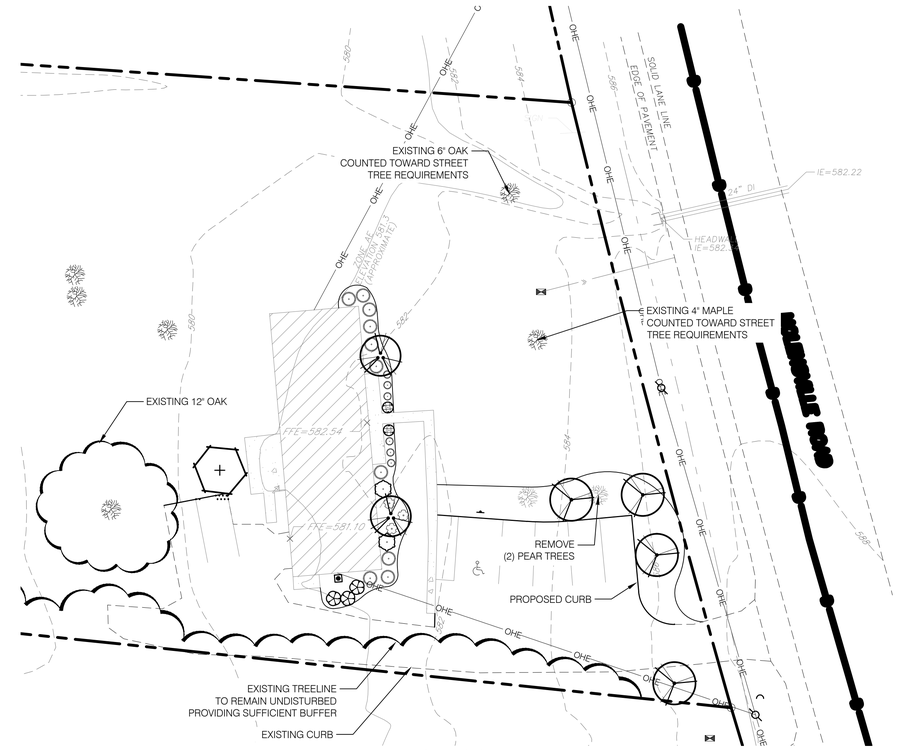
LANDSCAPE SHALL NOT OBSTRUCT VISIBILITY OR ACCESS TO FIRE PROTECTION EQUIPMENT INCLUDING, BUT NOT LIMITED TO, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS

PLANT SCHEDULE

TREES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE
	AG	2	`Autumn Brilliance` Serviceberry / Amelanchier x grandiflora `Autumn Brilliance` 3` Clear Trunk. 3 1" Cain Min. Evenly Branched. Full Symmetrcal Crown. See Tree Specifications.	B & B	3"Cal	12`-14` HT
	CC	4	Avondale Redbud / Cercis canadensis `Avondale` Single Trunk. Evenly Branched. Full Symmetrcal Crown. See Tree Specifications	B & B	3"Cal	10`-12` HT
	QN	1	Nuttall Oak / Quercus nuttallii 6` Clear Trunk. Single; Straight Central Leader. Evenly Branched. Full Symmetrcal Crown. See Tree Specifications. Matched	B & B	3"Cal	14`-16` HT
SHRUBS	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT		
	AE	3	Rose Creek Abelia / Abelia x grandiflora `Rose Creek` Full; Dense Form	#1 Cont. 15" HT		
	BX	2	Green Velvet Boxwood / Buxus x `Green Velvet` Full; Dense Form. Unsheered	#3 Container		
	HY	2	Limelight Hydrangea / Hydrangea paniculata `Limelight` TM Full, Heavy, Well Rooted, Dense Form	#3 Container		
	IV	3	Henry`s Garnet Sweetspire / Itea virginica `Henry`s Garnet` Full. Heavy. Well Branched	#3 Container		
	NW	6	Walkers Low Catmint / Nepeta x faassenii `Walkers Low` Full. Heavy. Well Rooted	#1 Container		
	TH	10	Hicks Yew / Taxus x media `Hicksii` Full; Desne Form	24" HT		

PLAN NOTES:
1. ALL LANDSCAPE BEDS SHALL BE NEATLY TRENCHED WITH A BED EDGE AND HAVE 4" MINIMUM DEPTH OF SHREDDED HARDWOOD MULCH.
2. ALL TREES AND SHRUBS SHALL BE COORDINATED WITH LIGHTING PLAN PRIOR TO INSTALLATION.
3. ALL TREES AND SHRUBS SHALL BE PLANTED 3' BEHIND BACK OF CURB.
4. ALL AREAS OF DISTURBANCE OUTSIDE OF LANDSCAPE BEDS SHALL BE REPAIRED WITH REBEL III FESCUE SEED OR SOD. ANY AREA OF DISTURBANCE DENOTED WITH THE SOD HATCH, SHALL BE REPAIRED WITH SEED.
5. A HOSE BIB IS LOCATED WITHIN 300 FEET OF ALL LANDSCAPE MATERIALS.

PLANTING SCHEDULE NOTES
1. SHRUBS AND TREES TO BE OF THE HIGHEST QUALITY.
2. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND LANDSCAPE ARCHITECT OF RECORD.
3. SUBSTITUTIONS AND DEVIATIONS MAY OR MAY NOT BE APPROVED.
4. REVISED LANDSCAPE PLANS MUST BE SUBMITTED AND APPROVED BY THE CITY OF MURFREESBORO URBAN ENVIRONMENTAL DEPARTMENT 615-895-8059 PRIOR TO INSTALLATION.
5. ALL IRRIGATION, LAWN AND PLANT MATERIALS WITHIN THE ROW MUST BE MAINTAINED BY THE PROPERTY OWNER.



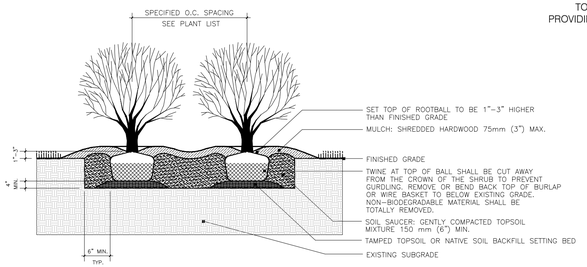
LANDSCAPE NOTES:
Before the landscape project is started, the chosen landscape contractor will contact the Landscape Architect for a detailed explanation of the landscape plan. All plant material provided shall be nursery grown and shall comply with the American Standard For Nursery Stock: ANSI Z60.1-1996, for size and quality. No substitutions as to type, size, or spacing of plant materials specified on this plan may be made without written approval of owner and Landscape Architect. The quantities indicated on the plant list and plan are provided for the benefit of the contractor, but should not be assumed to always be correct. The landscape contractor assumes all responsibility for his or her own quantity calculations and the liability which pertains to those quantities and to any related contract documents and/ or price quotations.
The contractor is to verify the exact locations of all existing utilities. Take care to protect utilities that are to remain. Repair any damage according to local standards and codes, and at landscape contractor's expense. Coordinate all construction with appropriate utility company.

Before planting installation is to begin, a soil test is to be performed for all planting areas in order to determine the soil's structure, pH, and nutrient content. Specifically addressing the relationship between nitrogen, phosphorus, and potassium; as well as testing for other nutrients, organic matter, and soluble salt composition. Analysis is also required of any stockpiled topsoil. If topsoil is imported, then analysis shall be done for each location where the topsoil was excavated. These tests will guide the makeup of all future soil amendments as well as any additional soil excavation and replacement that may be necessary when determined and or approved by Landscape Architect and owner. These notes provide a general outline for soil sampling, preparation, plant installation, fertilization, and mulching.

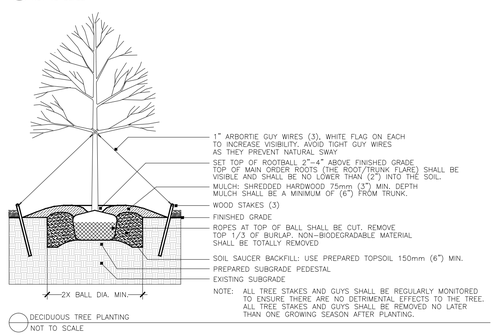
BED PREPARATION NOTES:
The objective of the bed preparation and planting notes herein is to develop and preserve landscape material according to our landscape plan. Included in that goal is a standard of achieving optimum health, including growth and appearance of all ornamental landscape plants, while recognizing the unique growing environment presented by each planting location. The chosen landscape contractor must perform percolation tests in areas of planting, especially in areas where plants are to be installed that do not tolerate wet conditions. If it is observed that soils to not percolate well, the landscape architect and owner are to be notified immediately and prior to any planting.

PLANT INSTALLATION:
Soil amendments shall be incorporated in the following manner; the soil surface shall be loosened by rototilling to a minimum depth of 18" (only when outside the drip line of existing trees). All materials over 1" in diameter shall be removed. The manure and organic compost mixture shall be evenly spread over the area at a rate of 12 cubic yards per thousand square feet, and shall be mixed thoroughly into the soil surface to a depth of 6 inches by means of a rototiller, soil mixer or similar apparatus. Adjusting agents (e.g. lime and sulfur) may be applied in conjunction at this time based on the soil tests.. When incorporating topsoil, it should be spread over the area to a minimum 4" compacted depth, and mixed lightly into the subsoil by means of a rototiller, soil mixer or similar apparatus.
Amendments are to be spread and tilled into the soil uniformly.
In situations where existing soil is to be excavated from non-turf planters and replaced as per planting plan notes, remove soil to specified depth. Replace soil with a mixture containing fifty percent (50%) coarse river sand, twenty-five percent (25%) organic matter, and twenty-five (25%) topsoil. Soil mixture will be subject to the same chemical and mechanical analysis described above. Composted organic matter used shall be a well decomposed, stable, weed free source. It shall be derived from: yard trimmings, agricultural, food, or industrial residuals.
The product shall contain no substances toxic to plants, animals, or humans and shall be reasonably free (<1% by dry weight) of man-made foreign matter. The composted organic matter will possess no objectionable odors and shall not resemble the raw material from which it was derived. Topsoil shall be a fertile sandy clay loam. Topsoil shall be taken from the top 18-24" of a well-drained site, and free from clay subsoil, stones, lumps, plants or their roots, sticks, stolons, and seeds, high salt content, and other materials harmful to plant life. Mix soil mixture lightly into the subsoil by means of a rototiller, soil mixer or similar apparatus.
Fertilize all plant beds and planters with a complete slow release fertilizer which has a 2-1-2 NPK ratio to stimulate root growth. Fertilize planting beds at a rate that will provide 2-3 lbs. of actual nitrogen per 1000 square feet in the planting bed. Prior to seeding or sodding, fertilizer with a 10-10-10 NPK ratio shall be spread evenly over the surface at the rate of five pounds per thousand square feet. Never shall fertilizers be added to the soil of a new planting bed or lawn area with NPK ratios higher than 10-10-10.
All planting beds within the drip line of existing trees are to be prepped with the addition of light topsoil amendments over the existing topsoil and vertical mulching. The vertical mulching should occur at 18" on center with a 1-1½" auger, 12-15" deep. The augured holes are to then be filled with approved organic matter and mulches.
The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball for all trees and large shrubs. Trees and large shrubs shall be planted so 1/8 of the root ball is above final grade (at least 2" of root ball). All plants are to be installed with mycorrhizae, following manufacturer's directions. The top soil material should taper out around plant crowns, particularly with perennials.
Thoroughly water the ground bed cover after installation. Contractor shall mulch planting beds to a depth of 2½-3", not allowing mulch depth over 1" against any tree trunk. Leave some organic matter on the surface.

All disturbed areas outside of planters and planting beds to be seeded unless otherwise noted on landscape plan. Seed type to be approved by Landscape Architect.
Turf areas shall be fine graded by contractor and free from stones, lumps, plants or their roots, sticks, stolons, and seeds, high salt content, and other materials harmful to plant life. Seed type to be approved by Landscape Architect. Sod areas shall be rolled smooth and sand added as needed



SHRUB PLANTING – BALL AND BURLAP – MULTIPLE
NOT TO SCALE



NOTE: ALL TREE STAKES AND GUYS SHALL BE REGULARLY MONITORED TO ENSURE THERE ARE NO DETRIMENTAL EFFECTS TO THE TREE. ALL TREE STAKES AND GUYS SHALL BE REMOVED NO LATER THAN ONE GROWING SEASON AFTER PLANTING.

DECIDUOUS TREE PLANTING
NOT TO SCALE

SITE DATA
SITE AREA: 1.41 ACRES
GROSS AREA OF PARKING (GAP): 4,662 SF

LANDSCAPE REQUIREMENTS

	REQUIRED	PROPOSED
STREET TREES		
- 1 CANOPY TREE SHALL BE PLANTED FOR EACH 50 FEET OF STREET FRONTAGE NOLENSVILLE ROAD		
1 3" CANOPY TREE/ 50 LF OF FRONTAGE/ 160 LF	4 CANOPY TREES	2 3" TREES & 2 EXISTING TREES UNDERSTORY PROVIDED DUE TO OVERHEAD UTILITES
PERIMETER PARKING AREA		
- 1 CANOPY TREE SHALL BE PLANTED FOR EACH 50 FEET OF PARKING AREA PERIMETER EASTERN PARKING PERIMETER		
1 3" CANOPY TREE/ 50 LF OF FRONTAGE/ 30 LF	1 CANOPY TREES	1 3" CANOPY TREES
REQUIRED INTERIOR LANDSCAPING		
- 8% OF PARKING AREA SHALL BE LANDSCAPED		
* MIN. LANDSCAPE REQ. 8 % OF GAP 4,662 SF	373 SF	>373 SF
- 1 CANOPY TREE SHALL BE PLANTED FOR EVERY 10 PARKING SPACES		
* 1 3" CANOPY TREE/ 10 PARKING SPACES 7 Parking Spaces	1 CANOPY TREES	1 3" CANOPY TREES
BUFFER ZONE REQUIREMENTS		
NONE		

LANDSCAPE REQUIREMENTS

	REQUIRED	PROPOSED
REQUIRED TREE DENSITY		
5 TREE DENSITY UNITS PER ACRE	7.05 TDU	7.2 TDU

PROPOSED NEW TREES:			UNITS		UNITS
3" CAL	7	x	0.6	=	4.2

EXISTING TREES TREES:			UNITS		UNITS
12" CAL	1	x	1.8	=	1.8
6" CAL	1	x	1.2	=	1.2

CREDIT FOR NEW TREES:	4.2	CALIPER INCHES
CREDIT FOR EXISTING TREES:	3.0	CALIPER INCHES
TOTAL TREE DENSITY UNITS PROVIDED:	7.2	CALIPER INCHES

Heibert+Ball
LAND DESIGN
1894 Gen. Geo. Patton Dr.
Suite 400
Franklin, TN 37067
Tel: 615.376.2421
www.hblanddesign.com

PROPOSED SITE FOR:
THRIVE HEALTH AND WELLNESS
7155 NOLENSVILLE ROAD, NOLENSVILLE, TENNESSEE

BY: cb

RELEASE DATE: 00/00/00
REV 1:

L1.1

LANDSCAPE PLAN