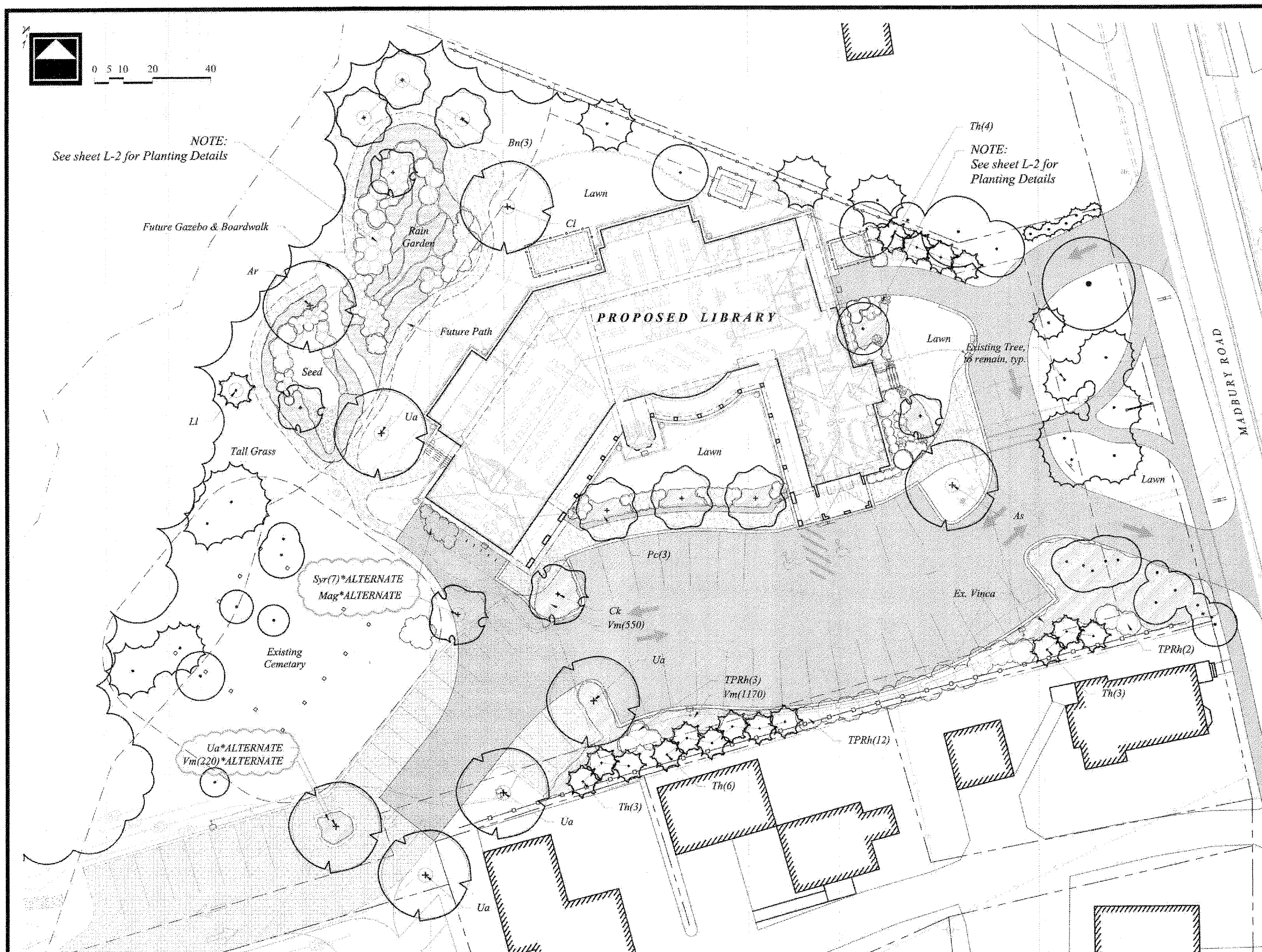


Plant List

TREES

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Ar	*Acer rubrum 'October Glory'*	October Glory Red Maple	1	2-2.5" CAL	BB
As	*Acer saccharum 'Green Mountain'*	Green Mountain Sugar Maple	1	2-2.5" CAL	BB
Bn	*Betula nigra 'Heritage'*	Heritage River Birch	3	8-10' HT	CLUMP BB
Ck	*Cornus kousa*	Kousa Dogwood	2	2-2.5" CAL	BB
Cl	*Cladratis lutea*	Yellowwood	1	2.5-3" CAL	BB
Ll	*Larix laricina*	Tamarack	1	7-8'HT	BB
Mag	*Magnolia 'Butterfly'*	Butterfly Magnolia	1	8-10' HT	UPRIGHT MULTI (ALT)
Ns	*Nyssa sylvatica*	Tupelo	2	2-2.5" CAL	BB
Pc	*Pyrus calleryana 'Chanticleer'*	Chanticleer Flowering Pear	3	2-2.5" CAL	BB
Th	*Thuja plicata 'Green Giant'*	Green Giant Arbovitae	16	9-10' HT	BB
Ua	*Ulmus americana 'Princeton'*	Princeton Elm	5	2-2.5" CAL	BB (1 ALTERNATE)

SHRUBS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
Az	*Azalea viscosum*	Swamp Azalea	1	3-4'	BB
Box	*Buxus macrophylla 'Winter Gem'*	Winter Gem Boxwood	13	5 GAL	
Ca	*Cornus alternifolia 'Ivory Halo'*	Ivory Halo Dogwood	17	5 GAL	
Hib	*Hibiscus syriacus 'Blue Satin'*	Blue Satin Rose of Sharon	1	5-6'	BB
Iv	*Ilex verticillata 'Winter Red'*	Winter Red Winterberry	8	3-4'	BB
MM	*Ilex verticillata ' Southern Gentleman'*	Male Winterberry	1	5GAL	
Leu	*Leucothoe auxaliis*	Coast Leucothoe	6	3 GAL	
RhC	*Rhododendron canadense*	Rhodora	54	3 GAL	
RhS	*Rhododendron 'Scintillation'*	Scintillation Rhododendron	9	5GAL	
Ros	Rose Mix				
	Rosa 'Pink Knock-out'	Pink Knockout Rose	12	3 GAL	
	Rosa 'Red Knock-out'	Red Knockout Rose	12	3 GAL	
Syr	*Syringa patula 'Miss Kim'*	Miss Kim Lilac	7	5 GAL	(ALTERNATE)
TPRh	*Transplanted Rhododendron*		17	-	
Va	*Vaccinium angustifolium*	Lowbush Blueberry	220	1 GAL	

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS

Symbol	Botanical Name	Common Name	Quantity	Size	Comments
As	*Aster novae-angliae 'Purple Dome'*	Purple Dome New England Aster	51	1 gal	20" oc
Ast	*Astilbe 'Fanal'*	Fanal Astilbe	15	1 gal	18" oc
Day	Daylily Mix				
	Hemerocallis 'Gordon Biggs'	Gordon Biggs Daylily	35	1 gal	24" oc
	Hemerocallis 'Janice Brown'	Janice Brown Daylily	35	1 gal	24" oc
	Hemerocallis 'Buttered Popcorn'	Buttered Popcorn Daylily	35	1 gal	24" oc
Eup	*Eupatorium maculatum 'Gateway'*	Joe Pyeweed	7	1 gal	30" oc
F	Fern Mix				
	Osmunda cinnamomea	Cinnamon Fern	20	1 gal	18" oc
	Matteleuccia struthiopteris	Ostrich Fern	20	1 gal	24" oc
H	*Hosta 'Guacamole'*	Guacamole Hosta	6	1 gal	
Ir	*Iris versicolor*	Blue Flag Iris	97	1 gal	18" oc
Lc	*Lobelia cardinalis*	Cardinal Flower	18	1 gal	
Ls	*Lobelia siphilitica*	Great Blue Lobelia	15	1 gal	
Rud	*Rudbeckia fulgida 'Goldsturm'*	Black Eyed Susan	37	1 gal	
Vm	*Vinca minor 'Bowles'*	Bowles Periwinkle	49	50/flat	plant 8" o.c. (4 ALT)
Vn	*Veronia noveboracensis*	New York Ironweed	11	1 gal	

Landscape Notes

1. Design is based on drawings Golde Planning and Design, Inc. dated 4/24/2012 and may require adjustment due to actual field conditions.
2. The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the site from erosion.
3. Erosion Control shall be in place prior to construction.
4. The Contractor shall verify layout and grades and inform the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grade relationships prior to construction.
5. Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fence or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Snow fence shall be located at the drip line at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flare. Do not disturb roots. In order to protect the integrity of the roots, branches, trunk and bark of the tree(s) no vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Do not store any refuse or construction materials or portalets within the tree protection area.
6. This plan is for review purposes only; NOT for Construction. Construction Documents will be provided upon request.
7. Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
8. The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233.
9. The Contractor shall procure any required permits prior to construction.
10. Prior to any landscape construction activities Contractor shall test all existing loam and loam from off-site intended to be used for lawns and plant beds using a thorough sampling throughout the supply. Soil testing shall indicate levels of pH, nitrates, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.
11. Contractor shall notify landscape architect or owner's representative immediately if at any point during demolition or construction a site condition is discovered which may negatively impact the completed project. This includes, but is not limited to, unforeseen drainage problems, unknown subsurface conditions, and discrepancies between the plan and the site. If a contractor is aware of a potential issue; and does not bring it to the attention of the landscape architect or owner's representative immediately, they may be responsible for the labor and materials associated with correcting the problem.
12. The Contractor shall furnish and plant all plants shown on the drawings and listed thereon. All plants shall be nursery grown under climatic conditions similar to those in the locality of the project. Plants shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. in the American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
13. A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
14. All plants shall be legibly tagged with proper botanical name.
15. The Contractor shall guarantee all plants for not less than one year from time of acceptance.
16. Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth and reserves the right to approve a representative sample of each type of shrub, herbaceous perennial, annual, and ground cover at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
17. No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
18. All landscaping shall be provided with either of the following:
    a. An underground sprinkling system.
    b. An outside hose attachment within 150 feet
19. If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas.
20. Maintaining irrigation heads is the responsibility of the owner alone.
21. All plantings shall be maintained for good health and appearance for the life of the project.
22. All shade trees to be planted shall be hardy for the Durham, NH botanical zone and shall be a mix of tree species, each with a minimum 2" diameter trunk when measured at a point of four and one-half feet above the ground level. All tree species shall be planted twenty feet on center to provide for a tree canopy and shall normally attain an overall height of at least ten feet at maturity.
23. All newly planted trees shall be planted in a permeable area of no less than a three-foot-wide radius from the base of the tree. Piles of snow shall be kept at a minimum of five feet away from the base of all trees.
24. All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
25. Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and ½" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall be mulched in a 5' diameter min. saucer. Color of mulch shall be black.
26. Bio-retention area shall be mulched with native/indigenous river stones ½"-2" in size in a layer 2-3" thick. Sample shall be supplied to Landscape Architect for approval.
27. Areas designated as LAWN shall be mown regularly.
28. Areas designated as FIELD shall be mown once per year after September to deter woody growth. Field grass shall NOT be mown when the ground is wet to reduce the chance of compaction that decreases infiltration and rutting that causes erosion.
29. Areas designated as NATURAL GROWTH shall be protected and shall remain in a natural state, native tree, shrub, grass and forbe areas changing without intervention. If exotic invasive plants need to be removed, the soil shall remain undisturbed. Mulch placed around trees in this area shall only be maintained until the proposed plant is fully established.
30. Owner is solely responsible for site maintenance.
31. Owner is solely responsible for maintaining vehicular and pedestrian vision lines pertaining to vegetation growth.
32. Drip strip shall extend to 6" beyond roof overhang and shall be edged with 3/16" thick metal edger.
33. In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
34. Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height of 8' to allow clear and safe passage of vehicles and pedestrians under tree canopy.
35. Snow shall be stored a minimum of 5' from shrubs and trunks of trees.
36. Landscape Architect is not responsible for the means and methods of the contractor.

Specifications

Lawn:

Seed Mix:

Lawn: Tall fescue/bluegrass mix, such as Pennington Smartseed Tall Fescue Bluegrass Mix – or Approved equal

Application Rates:

Lawn: As recommended by seed provider.

Raingarden

Preparation:

Raingarden planting shall be installed in the Spring and be well established prior to release of stormwater runoff into the system.

Examine finish surfaces, grades, soil quality, and depth. Do not start planting until unsatisfactory conditions are corrected in a manner acceptable to Owner.

Prior to planting, soils (as specified by the project engineer) in the Raingarden area shall be loosened to a depth of 4" MIN. to mitigate compaction from construction processes.

Installation:

Once installed soils have been loosened, layout planting for approval by Landscape Architect or Owner's Representative.

Plant raingarden plants, loosen pot bound roots and set plant with the top of pot soil level with grade.

Mulch – shall be 2" of rounded river rock 1-2" dia. max. Contactor shall provide sample for approval.

Contractor shall provide temporary irrigation until a well-established stand of vegetation exists and approval is given by the Landscape Architect or Owner's representative.

Water daily to maintain adequate surface moisture for the first two weeks, then apply 1/2" of water twice weekly until acceptance.

Repair, rework, and re-plant all areas that have washed out, are eroded.

Inspection:

Landscape architect or owner's representative shall inspect planting for establishment and coverage prior to release of stormwater runoff into the wetland. The raingarden requires a healthy stand of vegetation which must be established before the stormwater is directed into the system.

Contractor shall replant as needed to provide a well-established stand of Raingarden plants. Any and all weed species and/or invasives shall be removed as directed by the Landscape Architect or Owner's Representative prior to final acceptance.

Warrantee:

Provide a uniform stand of vegetation by maintaining planted areas as specified for 1 year after final acceptance. Replant areas which fail to thrive, with specified materials, until all affected areas are accepted by the Owner.

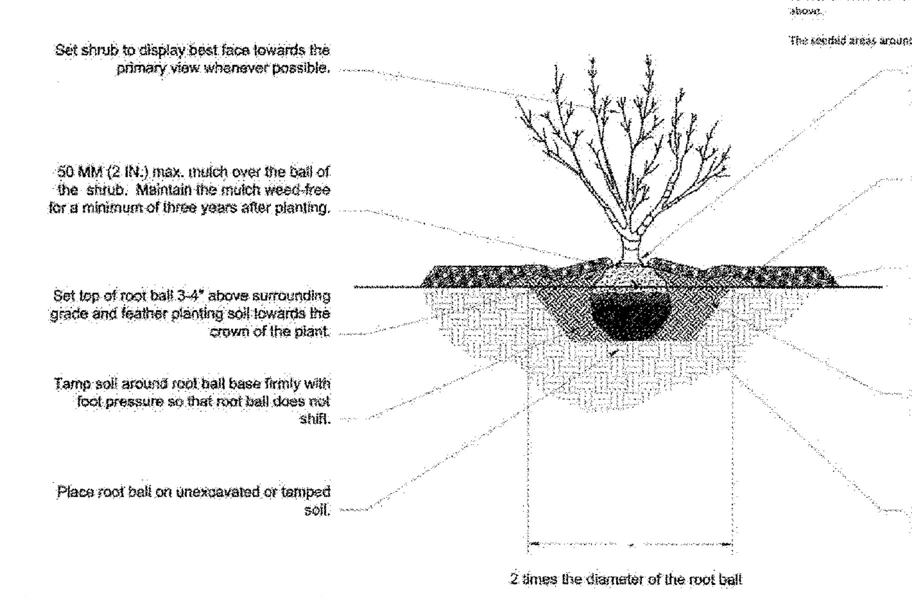
Maintenance:

The forebay must be cleaned when it accumulates to either six (6) inches or 10% of the forebay volume.

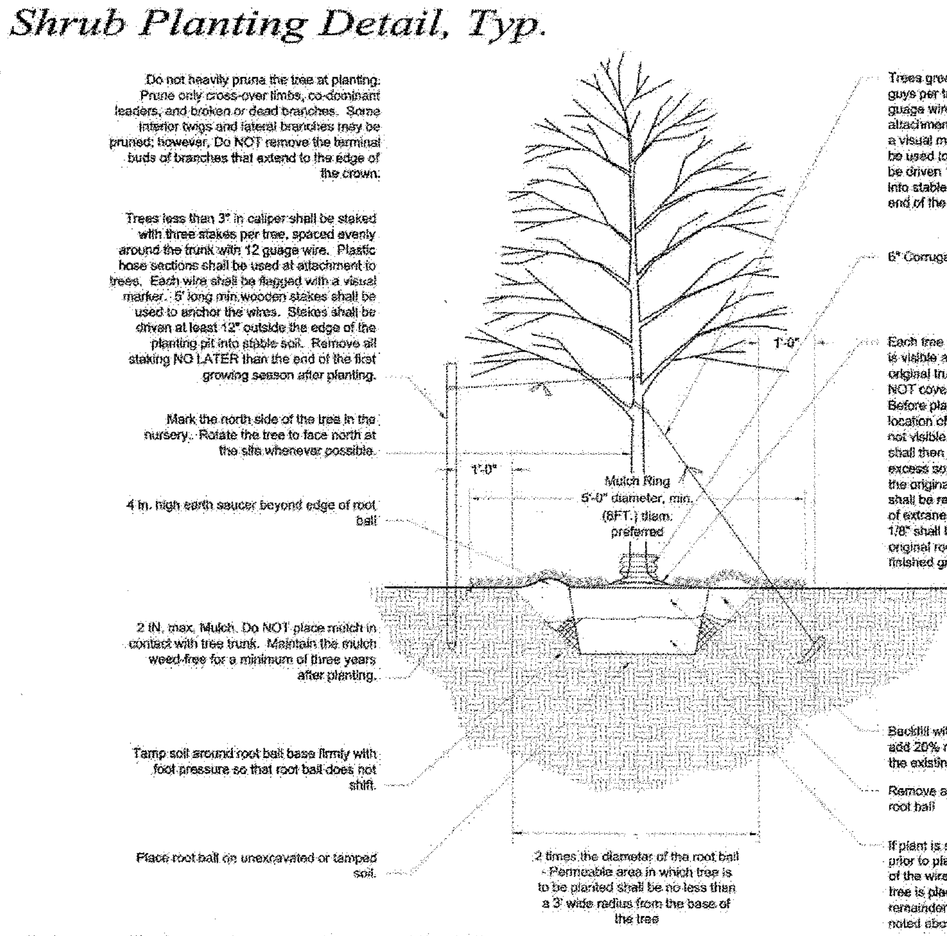
Wetlands vegetation must be harvested at least once every three years and no more frequently than once a year.

Biweekly inspections of vegetation health should be performed during the first growing season or until the vegetation is established. Once established, inspections of vegetation health, density, and diversity should be performed at least twice annually during both the growing and non-growing seasons. The vegetative cover must be maintained at 85 percent. If vegetation has greater than 50 percent damage, the area must be reestablished in accordance with the original specifications and the inspection requirements presented above.

The seeded areas around the perimeter of the gravel should be mowed at least once annually.



Shrub Planting Detail, Typ.



Tree Planting Detail, Typ.

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NOTE: IT IS THE GC'S, CM'S AND SUB-CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS & SPECS, FOR COORDINATION PURPOSES AND TO ENSURE THAT ALL SCOPE OF WORK IS INCLUDED

ROBERTA WOODBURN 002 (Licensed Landscape Architect seal)

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SMP ARCHITECTURE

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Fax (603) 219-0656

DURHAM PUBLIC LIBRARY

49 MADBURY ROAD
DURHAM, NEW HAMPSHIRE

SITE LANDSCAPE PLAN

Job No.	GPD 10-224
Scale	1" = 20'-0"
Date	06/13/12 Bid Package 1
Revised	06/26/12 For Construction
Revised	
Drawn By: VB	Rev'd By: RW
CAD FILE	

L1

1 of 2