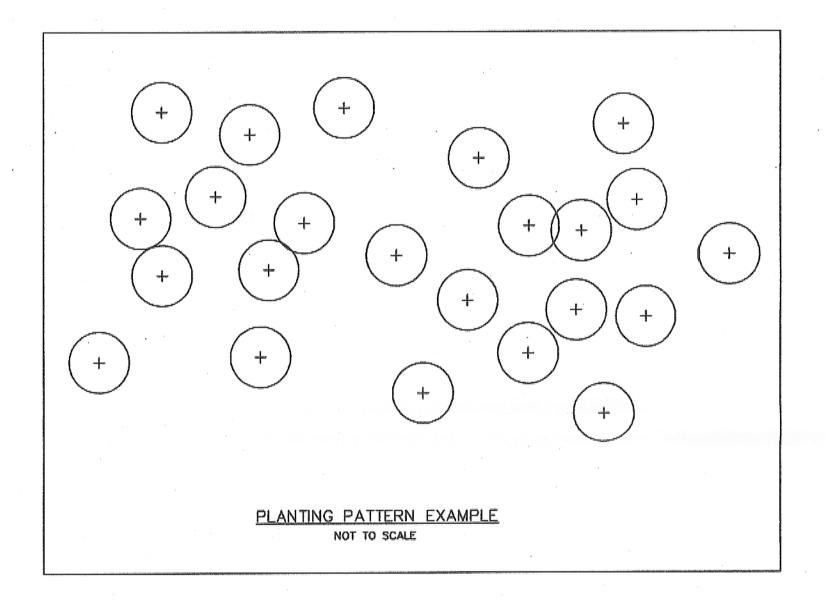


NOTE:

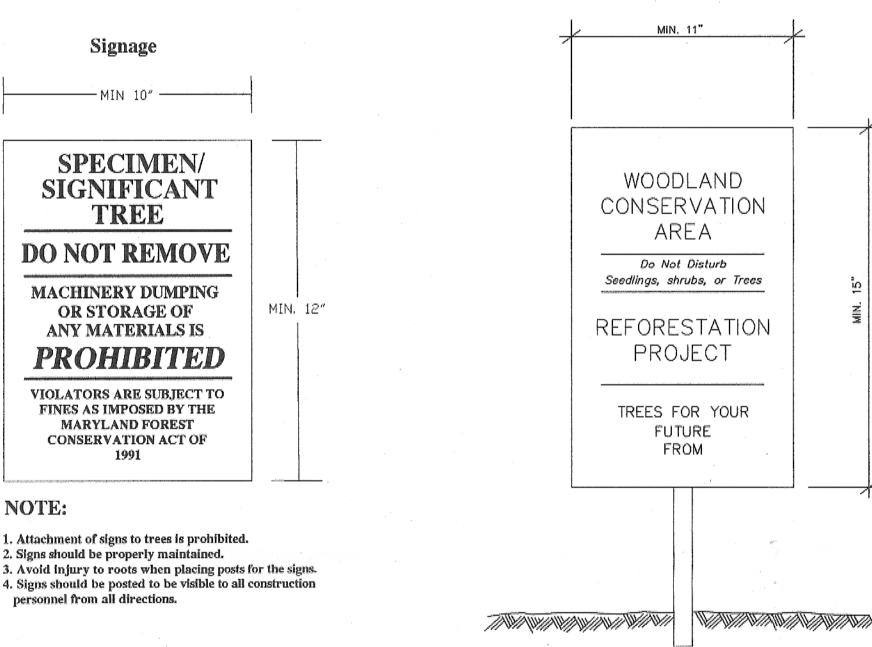
- 1. Attachment of signs to trees is prohibited.
- 2. Signs should be properly maintained. 3. Avoid injury to roots when placing posts for the signs.
- 4. Signs should be posted to be visible to all construction personnel from all directions.

FOREST RETENTION SIGN



INSPECTIONS

- The M-NCP&PC Planning Department inspection staff (301-495-4581) must conduct field inspections of a site subject to an approved forest conservation plan as follows:
 - (1) after the limits of disturbance have been staked and flagged, but before any clearing or grading begins (the purpose of the meeting will be to fieldverify the limits of clearing specified on the approved plan, authorize necessary adjustments, and authorize necessary stress reduction measures and installation of protection devices); the purpose will also be to determine the extent, location, schedule, and nature of invasive plant removal and control in two forest save areas; M-NCP&PC Environmental Planning staff (301-495-4543) must also be part of this meeting;
 - after necessary stress reduction measures have been completed and the protection measures have been installed, but before any clearing or grading begins (the purpose of the meeting will be to field verify that both measures have been done correctly and to authorize clearing and grading);
 - (3) following completion of all construction activities to determine the level of compliance with the provisions of the forest conservation plan;
 - prior to the start of any required reforestation and afforestation planting (the purpose of the meeting will be to determine whether necessary preplanting measures have been completed and authorize any necessary adjustments to the planting specifications);
 - after required reforestation and afforestation planting has been completed to verify that the planting is acceptable and begin the 2-year maintenance agreement to determine the level of compliance with the provisions of the planting plan.
- These inspections must be requested by the applicant at the designated points.
 - (6) Two inspections per year for 2 years after planting has been completed. Inspections to include M-NCP&PC inspector, builder, and contractor. Purpose for these inspections is to determine reasonable maintenance measures.



NOTE:

----B' MIN. METAL 'T' FENCE POSTS DRIVEN 2' INTO THE GROUND

---SECURE FENCING TO METAL POSTS

ROOT PRUNING

TREE PROTECTION FENCE

-2' MIN. DEPTH

TREE STAND CREDITS AVAILABLE FOR AFFORESTATION

Full credit 0 trees @

* The Tree Stands included here are those within club property lines that are at least

1/4 credit

50' wide and have a total area equal to or greater than 40,000 s.f.

8,276 s.f. @ full credit =

s.f. @ 1/4 credit =

0 ft.día.ea. @ 20 yrs.

0 ft.dia.ea. @ 20 yrs.

s.f. of C.R.Z. =

Total credit =

. PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.

3. BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSALLING PROTECTIVE DEVICE.

6. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

4. RODT DAMAGE SHOULD BE AVOIDED

5. PROTECTIVE SIGNAGE IS REQUIRED.

2. LOCATION AND LIMITS OF FENCING SHALL COORDINATED IN FIELD WITH ARBORIST.

TREE PROTECTION FENCE DETAIL NOT TO SCALE

6' MAX. WIDTH-

NOTE: This diagram is for stendard root pruning.

Shallow root pruning to a 6" depth is

specified along edge of driveway where only 4" scarification of the ground surface will

Landscaped Areas / Tree Stand Retention

Individual/Street Trees:

Specimen/Champion Trees

Retention Areas will be set as part of the review process.
 Boundaries of Retention Areas should be staked and flagged prior to trenching.
 Exact location of trench should be identified.
 Trench should be innecliately backfilled with sail renoved an other high arganic

5. Roots should be clearly cut using vibratory knife or other acceptable equipment.

NOT TO SCALE

- Attachment of signs to trees is prohibited.
- 2. Signs should be properly maintained.
- Avoid injury to roots when placing posts for the signs. 4. Signs should be posted to be visible to all construction
- personnel from all directions.

1. An on-site pre-construction meeting shall be required after the limits of disturbance have been staked and flagged, but before any clearing or grading begins. The owner shall contact the Maryland National Capital Park and Planning Commission Inspection staff prior to commencing construction o verify the ilmits of disturbance and discuss tree protectio and tree care mearsures. The attendants at this meeting should include: developer's representative, construction super intendent, MD licensed tree expert or ISA certified arborist that will implement tree protection measures, MNCPPC inspector, and DPS sediment control inspector.

- No clearing or grading shall begin before stress—reduction measures have been implemented. Appropriate measures may include, but are not limited to:
 - Crown reduction or pruning
- Fertilizing Vertical mulching Root aeration matting
- Measures not specified on the FCP may be requested as determined by the MNCPPC inspector in coordination with the arborist 3. A State of MD licensed tree expert, or International Society of Arboriculture certified arborist must perform all stress reduction measures. Documentation of stress reduction must be either observed by the MNCPPC inspector or sent to MNCPPC Inspector at 8787 Georgia Ave, Silver Spring, Maryland, 20910. The MNCPPC inspector will determine the exact method to

convey the stress reduction measures during the pre-construction meeting.

- Temporary tree protection devices shall be installed per the Forest Conservation Plan and prior to any construction activities. Tree protection fencing locations should be staked prior to the preconstruction meeting. MNCPPC inspector, in coordination with the DPS sediment control inspectore, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan. Temporary tree protection
- Chain link fence (four feet high) Snow fence (four feet high)
- Super silt fence 14 gauge 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 3 feet high) with high visibility flagging
- Temporary protection devices shall be maintained and installed by the contractor for the duration of the construction project and must not be altered without prior approval from MNCP&PC. No equipment, trucks, materials, or debris may be stored within the tree protection fence areas during the entire construction project. No vehicle or equipment access to the fenced area will be permitted. Tree protection shall not be removed without prior approval of MNCP&PC. Tree protection devices to be coordinated with erosion and sediment control devices as indicated on the approved Erosion and Sediment Control Plan approved by the Department of
- 6. Forest Retention Area signs shall be installed as required by the MNCP&PC inspector, or as shown on approved plan.
- Long—term protection devices will be installed per the orest Conservation Plan and attached details. Installation will occur at the appropriate time during the construction project. Refer to the plan drawing for long-term protection
- Periodic inspections by MNCP&PC will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the MNCP&PC inspector, must be made within the time frame established by the MNCP&PC Inspector.
- 9. After construction is completed, an inspection shall be requested. Corrective measures which may be required
- Removal and replacement of dead or dying trees Pruning of dead or declining limbs Fertilization Watering
- Wound repair Cleanup of retention areas

0.19 ac.*

0.00 ac.

0.00 ac.

0.00 ac.

0.00 ac.

____ 0.19. aca

10. After inspection and completion of corrective measures have been undertaken, all temporary protection devices shall be removed from the site. No additional grading, sodding, or burial of debris may take place.

FOREST CONSERVATION NOTES

SEQUENCE OF CONSTRUCTION

Root Pruning operations.

Begin building construction.

6. Begin storm drain construction.

Begin curb & gutter and paving.

13. Remove tree protection fence.

M-NCP&PC staff.

48 hours prior to any land disturbance.

Begin demolition of existing buildings.

Clear, grub, and begin excavating and grading.

7. Begin water & sewer and other utility construction.

Begin stormwater management facility construction.

12. Upon completion, conduct final inspection with

Schedule a pre-construction meeting with the Developer's representative,

Construction Superintendent, tree professional, MNCP&PC staff, and sediment

control inspector. Call at least 48 hours prior to beginning construction. Contact

Miss Utility at 1-800-257-7777 for water and sewer locations at 301-309-3093.

2. Install sediment control devices, Install Tree Protection Fencing and perform

10. As various areas are completed, place topsoil and sod/seed on grassed areas

in conformance with these plans and the "Standard Erosion and Sediment Control

11. Upon completion and site stabilization, and with the approval of the sediment

control Inspector, all sediment control structures shall be removed.

1. a. Owner shall contact MNCPPC Planning Department staff before planting. b. Contractor to mow afforestation area and remove all invasive plants (ie: multiflora rose, mulberry trees) and apply herbicide, only if determined to be needed by M-NCPPC Planning Department inspector, to eliminate competition of weed seed prior to planting. MNCPPC inspector will determine if additional measures are needed.

- All plant material shall be approved by the Owner or duly appointed representative prior to planting. If plant material is not available substitutions may be made with prior approval from the developer and Montgomery County.
- 3. Size and standards of plant materials shall conform to
- latest edition of "USA Standards for Nursery Stock", by the American Association of Nurserymen, Inc. (AAN). 4. All plants shall be placed so as not to obstruct drainage.
- Plants shall be installed randomly in a triangular or staggered pattern (not in a straight line). Container stock shall be spaced minimum 8-12 feet on center. Bare root stock shall be spaced minimum 6-8' feet on center. See
- Slow release fertilizer (osmacote 10-10-5) shall be applied at the time of planting at the rate of 600 lbs. per acre. Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Owner prior to
- 8. All trees are to be located a minimum distance of 5' from all utility boxes, 5' from a storm drain inlet or manhole, 10' from a fire hydrant, 15' from any public street light, and 5' from any driveway aprons.

installation of plant material.

- Remove litter and debris as required during the first growing season and at the beginning of the second growing
- 10. Plants shall be installed only between the months of January and May and between September and December when the ground is not frozen. Plants shall be guaranteed for one-year period from the time of installation. Any replacement must be installed as above.
- 11. All disturbed areas within the Forest Conservation easement to be seeded with Southern Tier Consulting, Inc. (716-968-3120), Native/Naturalized Wildflower Seed Mix (Northeast) at a rate of 23 pounds per acre.
- 12. After planting is complete, MNCPPC inspector must inspect the planted area to determine if planted area is acceptable and required maintenance period may begin or whether additional measures are needed in order for the planted area to be accepted. At the discretion of the MNCPPC inspector, up to one—half of the financial security may be released if stock and planted area is in good condition.

- The plant material shall be maintained by the owner/ developer for two (2) years after the completion. Maintenance shall consist of:
- A. Remove and replace all dead or diseased vegetation.
- B. Remove all invasive non-native plants.
- C. Necessary watering, fertilization, or pest control. D. Shall not be mowed unless directed by Montgomery
- Maintenance of the afforestation/reforestation area for a period of two years is required per the Montgomery County Tree Technical Manual. During this maintenance period the health and vigor of the plantings shall be monitored and may include the need to specify actions to correct existing problems. The following inspection schedule shall be
- carried out: - Year 1 and 2: Two Inspections per year: inspect in the beginning of the growing season (May or June), and n—spect at the end of the growing season (September or
- At the end of the second year the survival rate of all the afforestation/reforestation areas shall be 100% of the total trees planted, additional plant material may be needed to be planted to bring the total count up to the 100%.
- At the end of the maintenance period a final inspection shall be set up at the site with the Owner or owner's representative and a staff member from MNCP&PC to insure that the required afforestation/reforestation survival rate has been achieved.

FOREST CONSERVATION PLAN CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS CORRECT AND THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF EXISTING STATE AND COUNTY FOREST CONSERVATION LEGISLATION.

27 September 2006



RECOGNIZED AS QUALIFIED PROFESSIONAL BY MD. DEPT. OF NATURAL RESOURCES

I. ON-SITE FOREST CONSERVATION PLANT SCHEDULE FOR 0.24 ACRE REFORESTATION

Qty.	Botanical Name	Common Name	CAL.	Height	Misc.
4	Acer rubrum	Red Maple	1.5"-2"		B&B/CONT.
4	Liriodendron tulipfera	Tulip Poplar	1.5"-2"		B&B/CONT.
3	Quercus rubra	Red Oak	1.5"-2"		B&B/CONT.
3	Quercus alba	White Oak	1.5"-2"		B&B/CONT.
3	Nyssa sylvatica	Black Gum	1.5"-2"		B&B/CONT.
3	Cornus florida	Flowering Dogwood		5'-6'	B&B/CONT.
2	Sassafras albidum	Sassafras	1.5"-2"		B&B/CONT.
2	llex opaca	American Holly		4'-5'	B&B/CONT.
3	Prunus virginiana	Choke Cherry		18"-24"	CONT.
3	Viburnum dentatum	Southern Arrowwood		18"-24"	CONT.
2	Lindera benzoin	Spicebush	THE RESERVE TO SECURE ASSESSMENT	18"-24"	CONT.

NOTE: The 0.24 acre Forest Conservation Easement will be planted with the above plant material at a rate of:

- 100 1.5"-2" cal. trees/acre x 0.24 acres = 24 trees
- The mix shall be 70% dominant species and 30 % understory species planted a maximum of 10' on-center.
- Shrubs shall be planted at a third the rate of trees 33 shrubs/acre \times 0.24 acres = 8 shrubs

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		Forest Cons	ervation Bor	nd Estimate	
			6/16/2006		
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Common Name	Number	Size	Each	Plant Cost	/Installed Cos
Red Maple	4	1 1/2" - 2" cal	\$98.00	\$392.00	\$980.0
Tulip Poplar	.) 4	1 1/2" - 2" cal	\$168.00	\$672.90	\$1,680.0
Red Oak	3	1 1/2" - 2" cal	\$120.00	\$360.00	\$900.0
White Oak	3	1 1/2" - 2" cal	\$150.00	\$450.00	\$1,125.0
Flowering Dogwood	3	5 to 6 ft	\$62.00	\$186.00	\$465.0
Black Gum	3	1 1/2" - 2" cal	\$112.00	/ \$336,00	\$840.0
Sassafras	2	1 1/2" - 2" cal	\$32.00	\$64.00	\$160.0
American Holly	2	4 to 5ft	\$98.00	\$196.00	\$490.0
		<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Choke Cherry	<u>'3</u>	18-24" ht	\$24,00	\$72.00	\$180.0
Southern Arrowwood	3	18-24" ht	\$24.00	\$72.00	\$180.0
Spicebush	2	18-24" ht	\$24.00	\$48.00	\$120.0
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The "installed cost" is 2.5 times	the plant c	øst, and is inter	ded to cover t	he two-year	
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Red Oak, Red Maple, Flowering	Dogwood,	& Black Gum ar	e S		
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White Oak are quoted from The	Shemin Nu	rseries Wholesa	ile Guide		
Sassafras quoted from Octorard				1	
American Holly and Tulip Poplar	r from Angel	lica Nurseries, li	nc. Catalog	V 1	
* These nurseries are examples	and are not	t required for pu	poses of purc	hasing \	
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FINAL FOREST CONSERVATION PLAN

Plan No. 06502 - MICPS - 1

* T D	SIGNALURIE DATE					
 * Tree Planting and Maintenance Calendar 						
•	+J +F M A 1	A J JI A	S O +N +D			
Transplant of 2" DBH or Greater	· ////	2				
Planting Seedings. Whips						
Minimum Monitor	×	х	х			
Fertilizer (if needed)+						
Water+						
Pruning						

- Recommended

- + Dependent Upon Site Conditions
- Dependent Upon Site Conditions: Weekly Watering is Strongly Recommended From May through October Unless Weekly Rainfall equals 1
- 1. Autivities during November February depend on ground conditions. 2. No fall planting of Oaks and Pines. 3.The planting and care of trees is most successful when coordinated with the local conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.

* From Maryland Forest Conservation Manual 1991

9220 Wightman Road, Suite 120

Montgomery Village, Maryland 20886-1279

Zavos Architecture + Design

PRINTS ISSUED 35% DD SUBMISSION 01-19-06 100% CD SUBMISSION 03-01-06 PERMIT SET 05-15-06 08-08-06 BID SET REVISIONS GENERAL REVISION 08-08-06

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MONTGOMERY COUNTY PUBLIC SCHOOLS BEL PRE ELEMENTARY SCHOOL



GYMNASIUM ADDITION 13801 RIPPLING BROOK DRIVE SILVER SPRING, MD 20906

SHEET TITLE

218NW03

Parcel D, Section Five, Strathmore at Bel Pre

FINAL FOREST CONSERVATION PLAN

BEL PRE ELEMENTARY SCHOOL P.B. 82 P. 8672

13TH ELECTION DISTRICT - MONTGOMERY COUNTY - MARYLAND Proj. Mgr. | Designer Macris, Hendricks & Glascock, P.A. Engineers = Planners
Landscape Architects = Surveyors

SEC Date Scale NTS 07/13/06 Phone 301.670.0840 Fax 301.948.0693 Sheet www.mhgpa.com

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