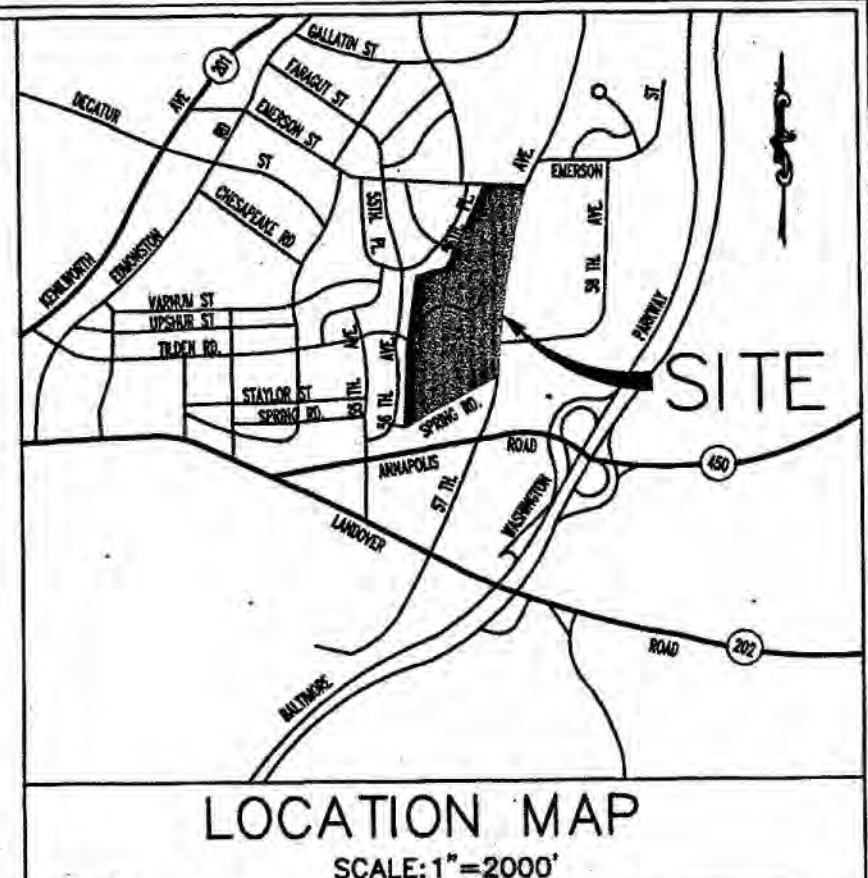
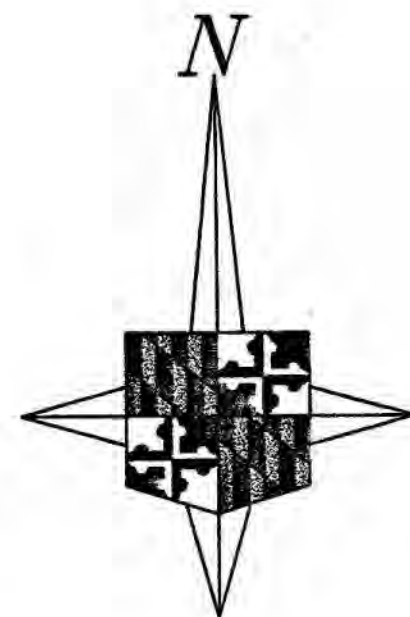
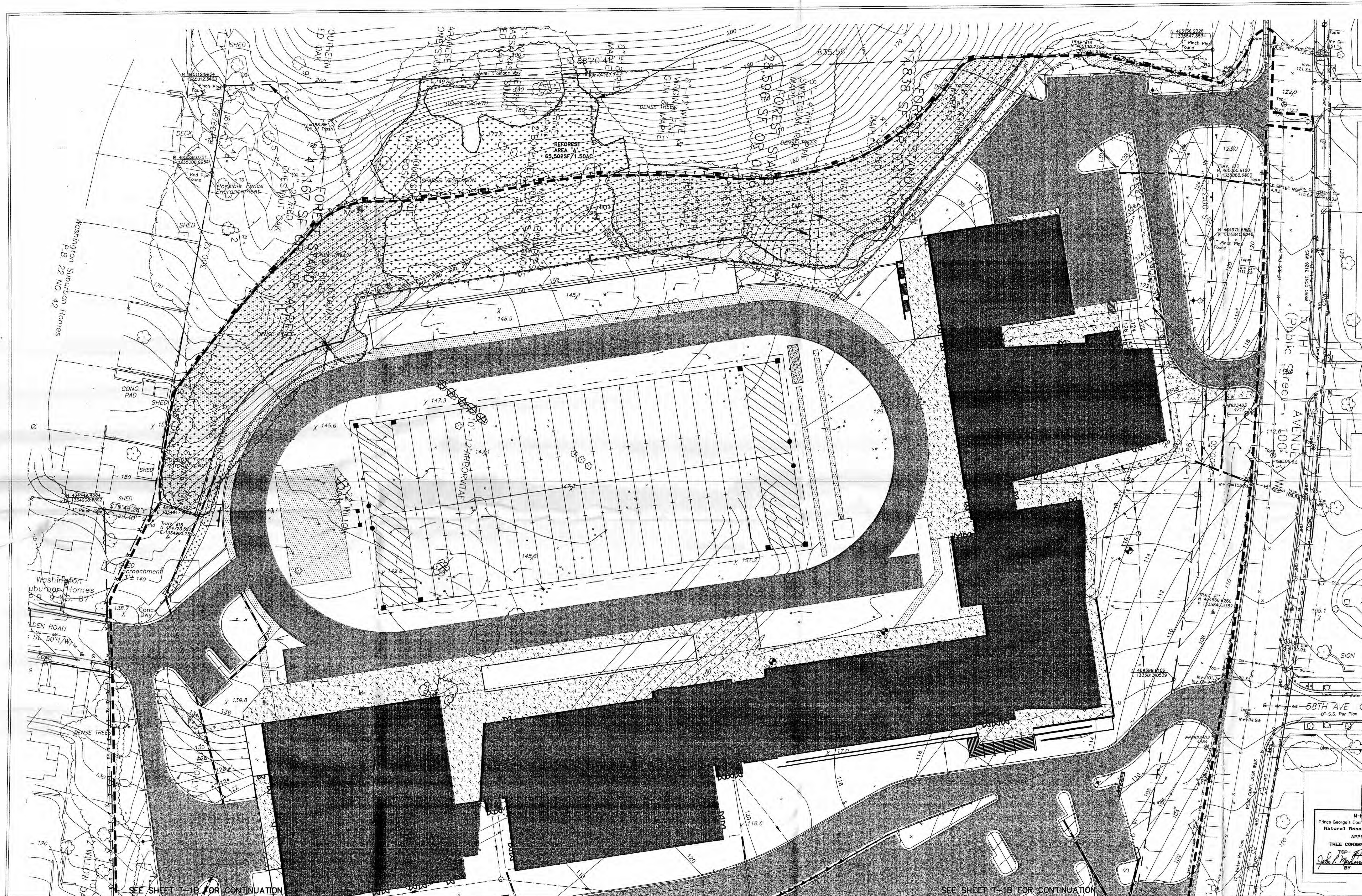
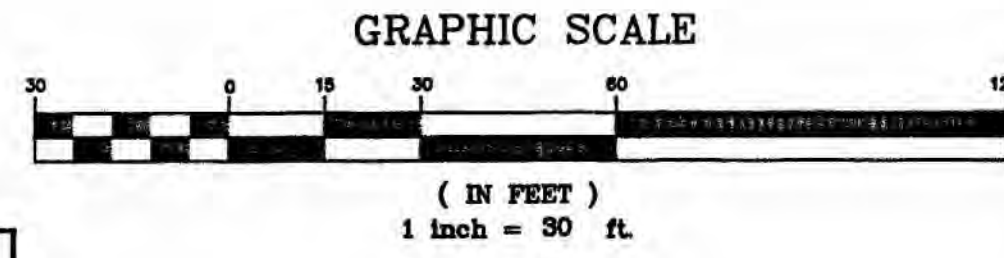




LEGEND

- TREE PROTECTION FENCE
- PERMANENT 2 BOARD SPLIT RAIL FENCE W/SIGNAGE 50 O.C.
- ROOT PRUNE TRENCH
- LIMITS OF DISTURBANCE
- CRITICAL ROOT ZONE OF SIGNIFICANT TREE AND NUMBER
- TREE TO BE REMOVED
- REFOREST AREA
- FOREST CLEAR AREA
- ASPHALT PAVEMENT
- BUILDING
- CONCRETE

CAUTION:
IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED.
(ORIGINAL SIZE = 48"x30")



OWNER/APPLICANT
PRINCE GEORGE'S COUNTY PUBLIC SCHOOLS
13300 OLD MARLBORO PIKE
UPPER MARLBORO, MARYLAND 20772-9983
ATTENTION: MR. SAL PICARRO, P.E.
TEL# (301) 952-8593 FAX # (301) 952-8526

H-MCRP
Prince George's County Planning Department
Natural Resources Division
APPROVAL
TREE CONSERVATION PLAN
TOP-#15201
BY *John P. Mendenhall* DATE *1/15/02*

CONSULTANTS
MECH/ELEC ENGINEER
John J. Christie Associates
5028 Wisconsin Avenue, N.W.
Washington, DC 20016
Telephone (202) 364-4410
FAX (202) 364-4419
CIVIL ENGINEER
A. Morton Thomas & Associates, Inc.
12750 Twinbrook Pkwy, Ste. 200
Rockville, MD 20852
Telephone (301) 881-2545
FAX (301) 881-0814

STRUCTURAL ENGINEER
ReSH Designers, Inc.
9055 Galtier Road
Gaithersburg, MD 20877
Telephone (301) 258-0933
FAX (301) 926-3109

BLADENSBURG HIGH SCHOOL BLADENSBURG, MARYLAND TREE CONSERVATION PLAN



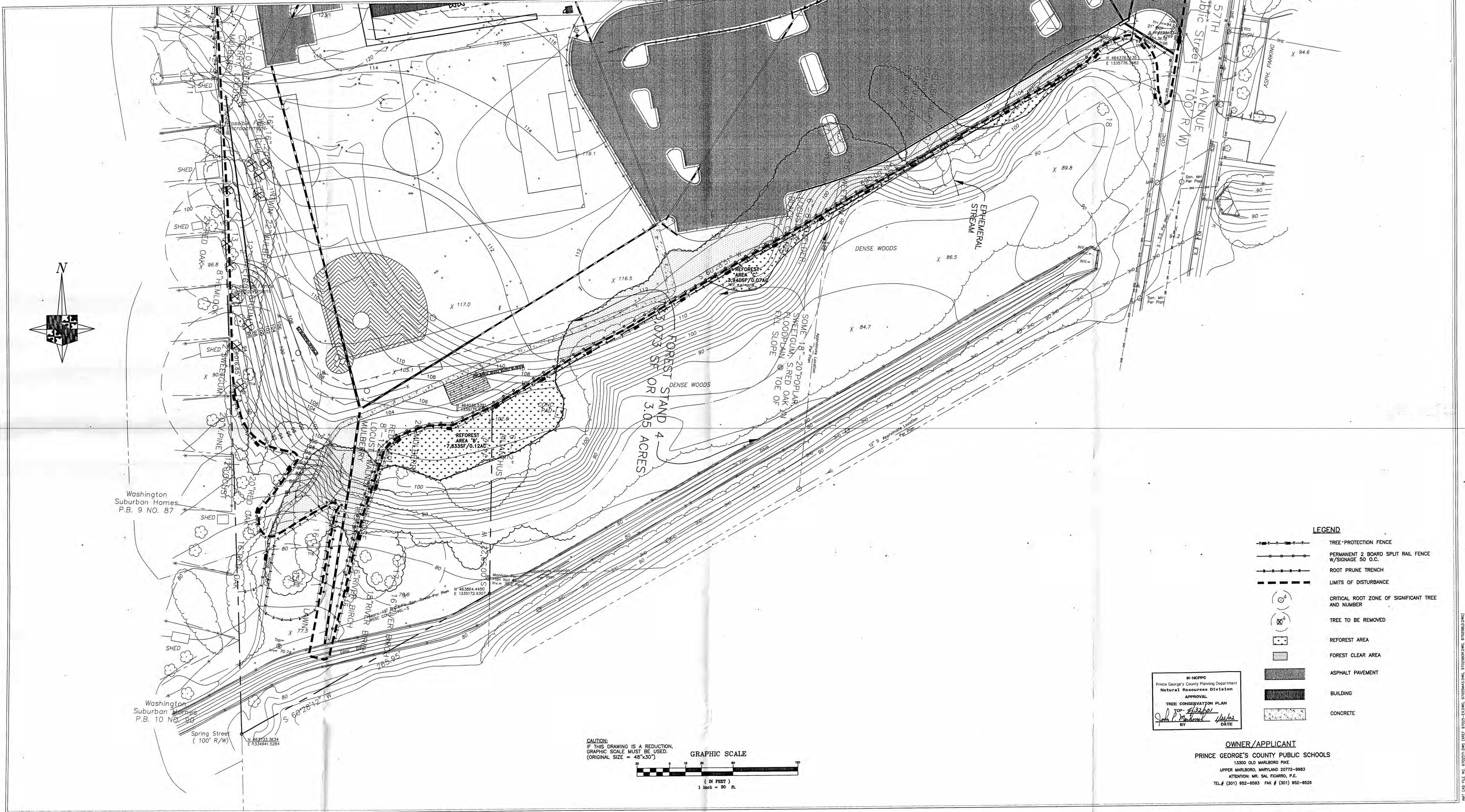
Walton - Madden - Cooper - Robinson - Poness
8100 Professional Place, Landover, MD 20785
(301) 459-9500 • Fax (301) 459-2639



Hellmuth, Obata & Kassabaum, P.C.
Canal House 3223 Grace Street, N.W.
Washington, DC 20007
Telephone (202) 339-8700
FAX (202) 339-8800

TREE CONSERVATION PLAN

REVISION :
DATE : 02/06/01
DRAWING NO. : 0006
SHEET NO. : T-1A

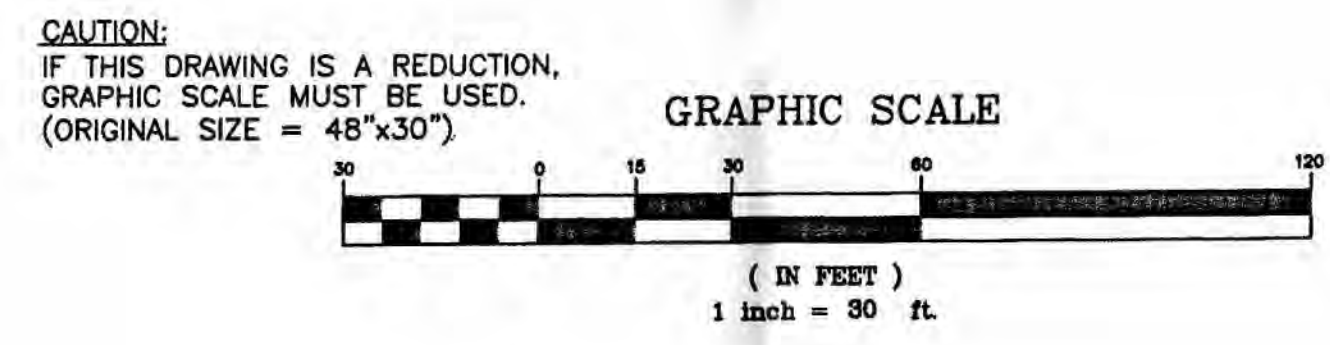


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M-NCPPC
Prince George's County Planning Department
Natural Resources Division
APPROVAL
TREE CONSERVATION PLAN
TOP: 4/24/01
BY: John P. [Signature]
DATE: 4/24/01

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TREE CONSERVATION PLAN	
REVISION:	DATE:
	02/06/01
CONTRACT NO.:	
0006	
DRAWING NO.:	
T-1B	

Bladensburg High School
General Forest Conservation Notes, Inspections, Reforestation Measures, Sequence of Construction and Management Plan
GENERAL FOREST CONSERVATION NOTES:

An on-site preconstruction meeting shall be required after the limits of disturbance have been staked and flagged, but before any clearing or grading begins. Attendees shall include the School Board representative, construction superintendent, tree professional, sediment control inspector, site design engineer and a representative from the Department of Environmental Review (DER). It is the contractor's responsibility to coordinate and schedule the preconstruction meeting.

No clearing or grading shall begin before stress-reduction measures have been implemented, unless otherwise permitted by the County Forester. Appropriate measures (see Forest Conservation Plan) may include:

- Root pruning
- Ground reduction and pruning
- Watering
- Fertilizing
- Vertical mulching

All stress-reduction measures must be performed by a State of Maryland licensed tree expert or International Society of Arboriculture certified arborist. Documentation of tree protection and tree stress reduction must be maintained by the contractor and be available for review by the County Forester.

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 in the field prior to the preconstruction meeting; or if installed, be prepared to make field adjustments as determined by the D.E.R. Temporary tree protection devices may include:

- Chain link fence (four feet high)
- Orange plastic mesh fence (four feet high)
- Protective signage

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 of the D.E.R. No equipment, trucks, materials, or debris may be stored within the protection fence area during the entire construction project. No access to the fenced area will be permitted. Tree protection fencing shall not be removed without the approval of the County Forester.

Long-term protection devices (see Forest Conservation Plan) may include:

- Root aeration systems
- Retaining walls
- Soil stabilization
- Soil erosion control
- Flare and panel walls
- Split rail fence

Long-term protection devices will be installed per the Forest Conservation Plan and attached details. Installation will occur at the appropriate time during the construction project. Corrections and repairs to all tree protection devices, as determined by the D.E.R., must be made in a timely fashion.

Periodic inspections by the D.E.R. will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the D.E.R., must be made in a timely fashion.

Prior to installation of landscaping/afforestation or reforestation projects, the contractor will request an on-site pre-planting meeting. Attendees shall include the contractor, landscaper, site design engineer and D.E.R. All details of the planting plans will be discussed.

After construction is completed, an inspection shall be requested. Corrective measures which may be required include:

- Removal and replacement of dead or dying trees
- Pruning of dead or declining limbs
- Soil erosion control
- Fertilization
- Watering
- Wound repair
- Cleanup of retention areas

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

INSPECTIONS

There shall be a minimum of four inspections for forest conservation.

A. The first inspection shall occur after flagging/staking of the L.O.D. and/or stream buffers, and prior to any clearing, grading or sediment control measures. This inspection is to address the issue of the protection and sediment control. The developer and representatives from DER will meet to walk the proposed limits of disturbance and determine the final locations of sediment control devices and tree protection devices.

B. The 2nd inspection shall occur prior to planting in reforestation areas. This pre-planting inspection is to make final decisions regarding the best implementation of the planting plan, including, but not limited to, the final placement and selection of plant species, determination of the reforestation potential of existing plants to remain, and a determination of the best design planting treatment. The purchase and delivery of plant materials should not be made until after this inspection since a determination may be made in the field to alter the choice of plant material.

C. The 3rd inspection shall occur at the completion of the site reforestation planting and construction of the permanent forest protection measures. The purpose of the inspection is to determine the success and adequacy of the maintenance program and final determination will be made at this time as to whether additional planting and further maintenance measures are necessary.

D. The 4th and final inspection shall occur at the completion of the two-year maintenance program. The purpose of the inspection is to determine the success and adequacy of the maintenance program (and deer management program). A final determination will be made at this time as to whether additional plantings and a further maintenance program are necessary.

REFORESTATION MEASURES:

1. Pre-Planting Considerations

A. In areas with substantial growth of invasive undercover species, measures will be taken to remove and control invasives. The infested areas should be mowed prior to commencement of planting. Necessary weed control measures should be determined during the pre-planting inspection, including but not limited to, mowing, periodic mowing around the reforestation plantings and fabric coverings. The use of chemical weed control will be limited to extreme cases and only with prior approval of the D.E.R. and the County Forester.

Where periodic mowing will occur as a weed control measure, the typical mowing frequency and pattern should be modified so as to allow access by mowing equipment without damage to plantings.

B. A soils analysis will be conducted prior to commencement of reforestation. On land where extensive agricultural use has occurred in the past, test pits will be dug in areas of undisturbed soil to determine if a fragipan layer is present. If fragipan is present, it should be plowed or augured and planting holes should be dug to twice the normal diameter for the material planted.

C. Soils should be treated by incorporating natural mulch within the top 12 inches, or amendments as determined by the soils analysis. Natural amendments, such as organic mulch or leaf mold compost are preferred. Provide suitable topsoil as required for site stabilization.

D. If the planting shall occur in cut areas or if fill material is used at the planting site, it should be clean fill with 12 inches of native topsoil. Backfilling of native top soil must be done in such a way that the height of the pile does not damage the seed bank.

E. Stabilize reforestation areas with seed and mulch as specified on reforestation plant material list. Incorporate companion seed into seed mix as required for site stabilization. Re-seed bare areas as required for proper stabilization.

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2. Plant Material Storage

It is recommended that the planting occur within 24 hours of delivery to the site. Plant materials which are left unplanted for more than 24 hours should be protected from direct sunlight and weather and kept moist. Nursery stock should not be left unplanted for more than two (2) weeks.

3. On-Site Inspection

Prior to planting, planting stock should be inspected. Plants not conforming to standard nurseryman specifications for size, form, vigor, roots, trunk wounds, insects, and disease should be replaced.

4. Planting Specifications

A. Container grown stock: Successful planting of container grown stock requires careful site preparation and inspection of the plant material root system. Caution is recommended when selecting plants grown in a plastic medium differing from that of the planting site. The plant should be removed from the container and the roots gently loosened from the soil. If the roots encircle the root ball substantially, severely recommended. S-shaped or knotted root systems should also be noted, and substituted if necessary. Roots may not be trimmed on-site due to the increased chance of soil borne diseases. The planting field should be prepared as specified. Native stratified soils should be used to backfill planting fields. Rake soils evenly over the planting field and cover with 2 to 4 inches of mulch.

B. Balled and burlapped trees: Balled and burlapped trees must be handled with care while planting. Trees should not be picked up by the trunk or dropped, as both practices will tend to separate the trunk from the root ball. Prior to planting, root balls should be kept moist.

C. Planting fields should be created equal to 2-5 times the diameter of the root ball use watering to settle soil backfilled around trees. Staked native top soils, if available, should be used to backfill the planting field. Amendments are not recommended in the planting field, as studies have shown that the roots will be encouraged to stay within the amended soils. Soils should be raked evenly over the planting field and encouraged to stay within the amended soils. Soils should be raked evenly over the planting field and covered with 2 to 4 inches of mulch.

D. Staking of trees is not recommended except in areas of high winds. Movement is necessary to strengthen the trunk of the planted tree. If stakes are used, they should be removed after the first growing season. Wrapping is also not recommended due to the increased opportunities for insect infestation and disease.

1. Post Planting Considerations

A. Soil stabilization: For areas of large scale disturbance, soils must be stabilized using a non-turf-building ground cover or engineering fabric.

B. Protective devices: To prevent damage of planting areas, all forestation and afforestation shall be prohibited in these areas.

SEQUENCE OF CONSTRUCTION

1. Call "Mass Utility" at 1-800-257-7777 prior to any work for the location of all existing utilities.

2. Flag limits of construction and stake out sediment control measures, new utilities, building and proposed locations for tree protection measures.

3. Arrange pre-construction meeting with the contracting officer, landscape contractor and D.E.R. to coordinate tree conservation measures procedures as identified in the inspection sequence above.

4. Prune roots and branches of existing plants as required for site work to promote plant health and provide proper shape.

5. Construct tree protection fences, install conservation signs and sediment control measures.

6. Construct building, utilities and site improvements.

7. Adjust existing sediment control measures for reforestation construction as required.

8. After site construction has been completed implement site reforestation as shown on the plan and install permanent tree protection measures and install forest conservation signs.

9. After site has been stabilized and all construction has been completed, remove sediment control measures upon contracting officer and inspectors approval.

MANAGEMENT PLAN

Post Construction

1. A final inspection by a licensed arborist will be made after final grading and reforestation has been completed and after all heavy equipment has been removed from the site.

2. The licensed Arborist will determine the areas to be vertically mulched, restoring the organic matter and maintaining the air and water penetration of the soil.

3. The licensed Arborist shall conduct class III pruning to remove all dead or damaged limbs as required to allow for proper wound closure. No crown reduction should occur unless terminal die back occurs.

4. Notify the D.E.R. Inspector for a final inspection of the trees to be saved and reforestation areas.

Additional Requirements:

1. One year after completion of construction the trees can be safely fertilized. The licensed Arborist should make the initial application and provide information to the owner on successive fertilizing.

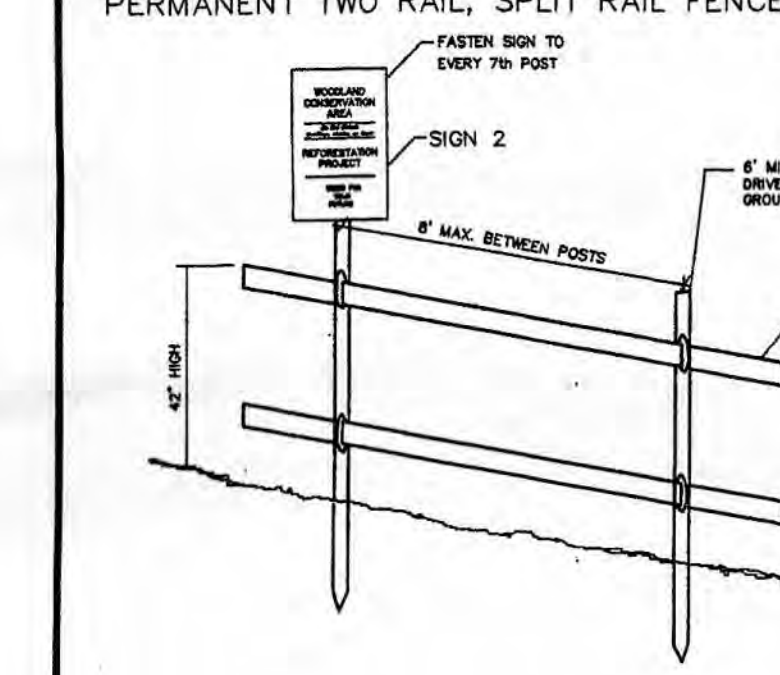
2. Contractor shall provide 2 years of maintenance which will include watering, corrective stabilization and wildlife degradation measures as required for the reforestation and tree care areas.

3. Two years after completion of construction the licensed Arborist shall perform Class II pruning to remove any damaged, dead, interfering and additional limbs 0.8 inches in diameter and larger and selectively thin the canopy areas to reduce wind resistance and the possibility of storm damage.

Tree #	Species	D.B.H.	Original Root Zone (sq. ft.)	Tree Condition	Root Condition	Comments
1	RED OAK	26"	4,779	GOOD	FAIR	TO BE REMOVED
2	CHESTNUT OAK	20", 21"	12,469	GOOD	FAIR	SAVE & PROTECT
3	CHESTNUT OAK	12", 16"	5,542	GOOD	FAIR	SAVE & PROTECT
4	CHESTNUT OAK	14", 16"	6,362	GOOD	FAIR	SAVE & PROTECT
5	RED OAK	2-16"	7,239	GOOD	FAIR	SAVE & PROTECT
6	RED OAK	17", 18"	9,181	GOOD	FAIR	SAVE & PROTECT
7	WHITE OAK	26"	4,779	GOOD	FAIR	SAVE & PROTECT
8	RED OAK	6", 13", 12"	14,858	GOOD	FAIR	SAVE & PROTECT
9	RED OAK	20", 22"	12,469	FAIR	FAIR	SAVE & PROTECT
10	S. RED OAK	24"	4,072	GOOD	GOOD	SAVE & PROTECT
11	RED OAK	28"	5,542	GOOD	GOOD	SAVE & PROTECT
12	VIRGINIA PINE	25"	4,779	GOOD	GOOD	TO BE REMOVED
13	BLACK CHERRY	38"	10,207	GOOD	GOOD	TO BE REMOVED
14	SWEETGUM	12", 18", 20"	17,672	GOOD	GOOD	TO BE REMOVED
15	BLACK GUM	24"	4,079	GOOD	GOOD	SAVE & PROTECT
16	SILVER MAPLE	28"	5,542	GOOD	GOOD	SAVE & PROTECT
17	SILVER MAPLE	29"	6,362	GOOD	GOOD	SAVE & PROTECT
18	SYCAMORE	24"	4,079	FAIR	GOOD	SAVE & PROTECT
19	WHITE OAK	28"	5,542	GOOD	GOOD	SAVE & PROTECT

AREA A	AREA B	AREA C	TOTAL	BOTANICAL NAME	COMMON NAME	SIZE	UNIT/ROOT	SPACING	FORM
33	3	2	38	ACER RUBRUM	RED MAPLE	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
33	3	0	36	CELTIS OCCIDENTALIS	HACKBERRY	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
18	0	0	16	CORNUS SERICEA	RED-OSIER DOGWOOD	15"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
34	2	0	36	FAGUS GRANDIFOLIA	AMERICAN BEECH	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
33	3	2	38	FRAXINUS PENNSYLVANICA	GREEN ASH	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
17	0	0	17	ILEX GLABRA	INKBERRY	12"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
17	0	0	17	ILEX VERTICILLATA	WINTERBERRY	18"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
16	0	0	16	LINDERA BENZON	SPICE BUSH	12"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
33	3	2	38	LIRIODENDRON TULIPIFERA	TULIP POPLAR	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
34	2	2	38	NYSSA SYLVIATICA	BLACK GUM	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
33	3	2	38	PRUNUS SEROTINA	BLACK CHERRY	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
33	3	2	38	QUERCUS RUBRA	RED OAK	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
34	2	2	38	QUERCUS PHellos	WILLOW OAK	1" CAL.	B&B	RANDOMLY 14.75' O.C.	TREE
17	4	0	21	VBURNUM ACERTUM	MAPLE LEAF VBURNUM	18"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
17	4	5	26	VBURNUM DENTATUM	SOUTHERN ARROWWOOD	15"HGT.	CONT.	RANDOMLY 25.5' O.C.	SHRUB
					SYLVA FIELD AND FOREST MIX OR ERNST UPLAND AND MEADOW MIX OR EQUIVALENT			40LBS./AC	SEED
300	24	14		TOTAL TREES REQUIRED & PROVIDED AT RATE OF 200-1" CAL. TREES PER ACRE					
100	8	5		TOTAL SHRUBS REQUIRED & PROVIDED AT RATE OF 1/3 NUMBER OF TREES OR 67 SHRUBS PER ACRE					

PERMANENT TWO RAIL, SPLIT RAIL FENCE



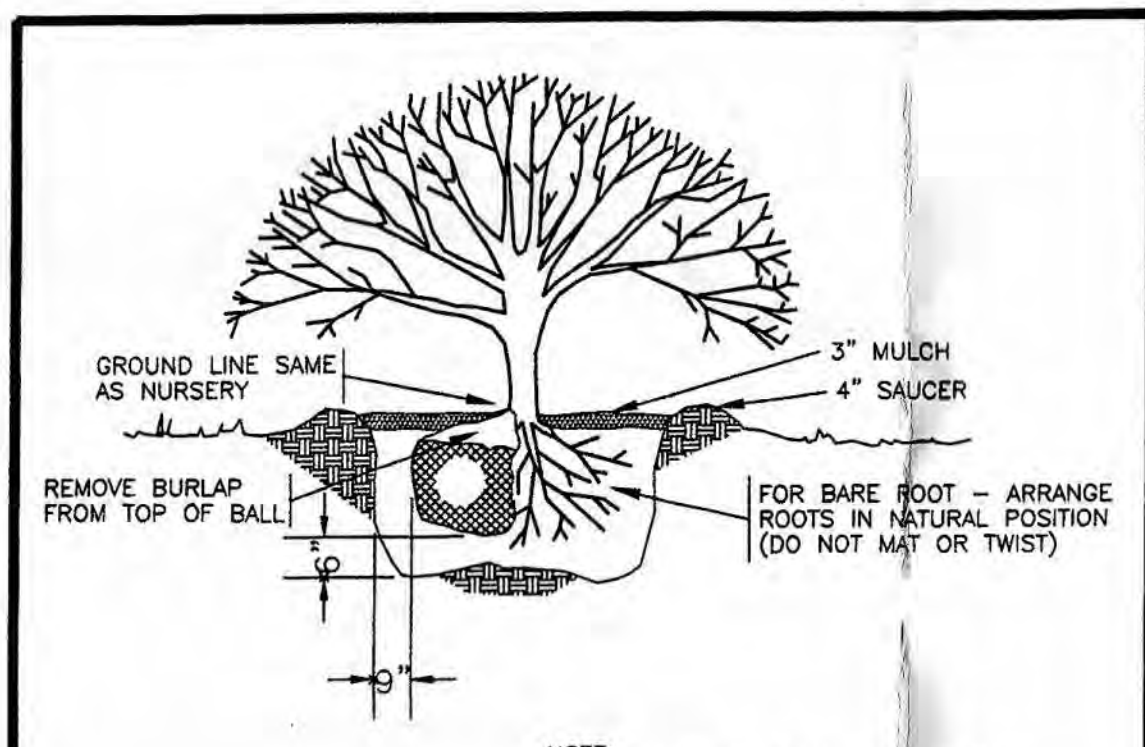
PERMANENT TREE PROTECTION

NO SCALE

SHRUB PLANTING

NOTE:

- Retention area will be set as part of the review process.
- Boundaries of Retention Area should be staked prior to installing protection devices.
- Seed source should be noted.
- All work to be done.

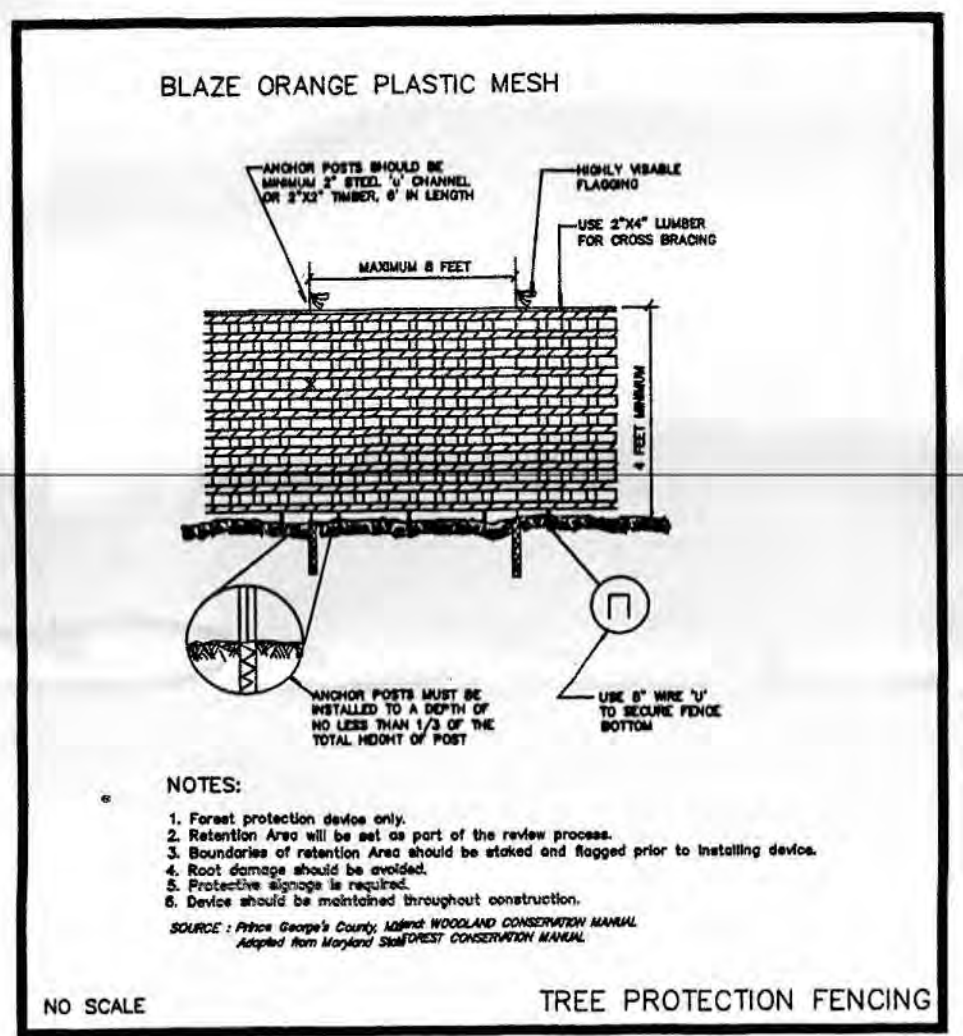


SHRUB PLANTING

NO SCALE

NOTE:

- Evergreen and deciduous shrubs to be planted in same manner.



TREE PROTECTION FENCING

NO SCALE

STAKED TREE SPECIFICATION

UNDISTURBED SOIL

EXISTING SOIL

DISTURBED SOIL

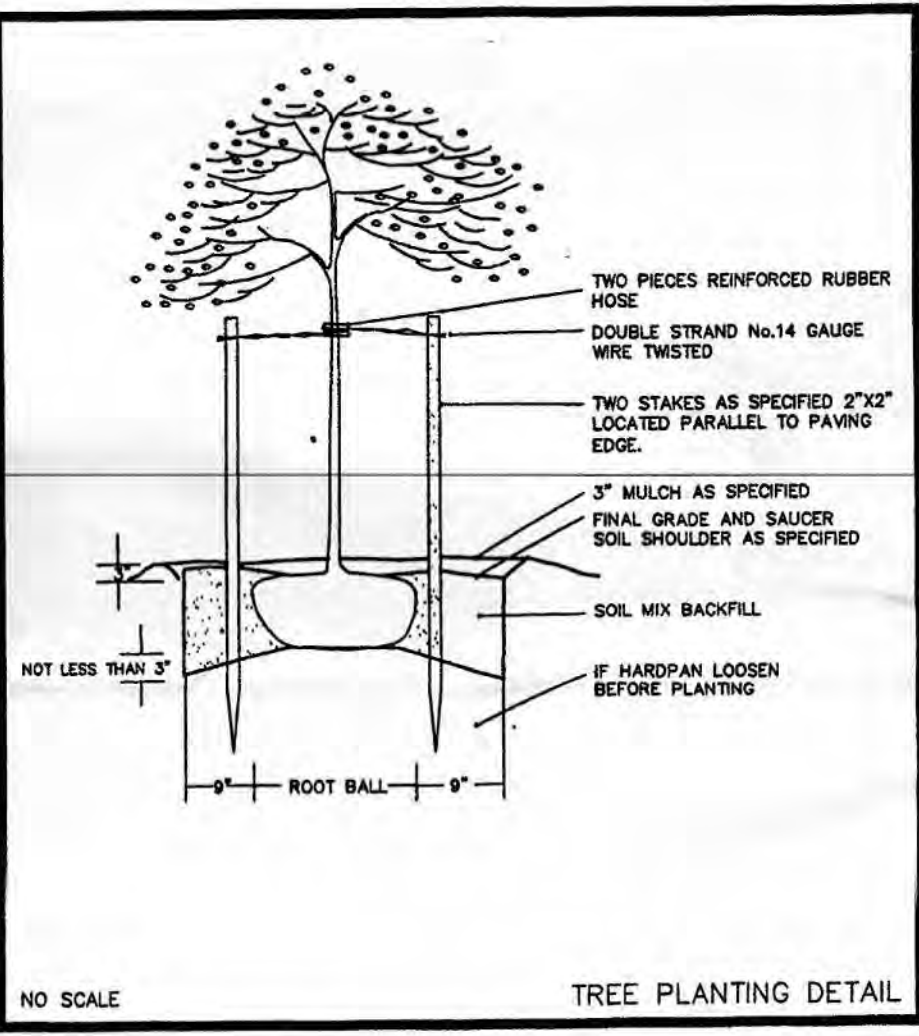
PLANTING ON SLOPE

ORIGINAL GRADE

NOTE:

- Retention area will be set as part of the review process.
- Boundaries of Retention Area should be staked prior to installing protection devices.
- Seed source should be noted.
- All work to be done.

Tree pit to be five times the rootball is preferred, particularly in poor soil.



TREE PLANTING DETAIL

NO SCALE

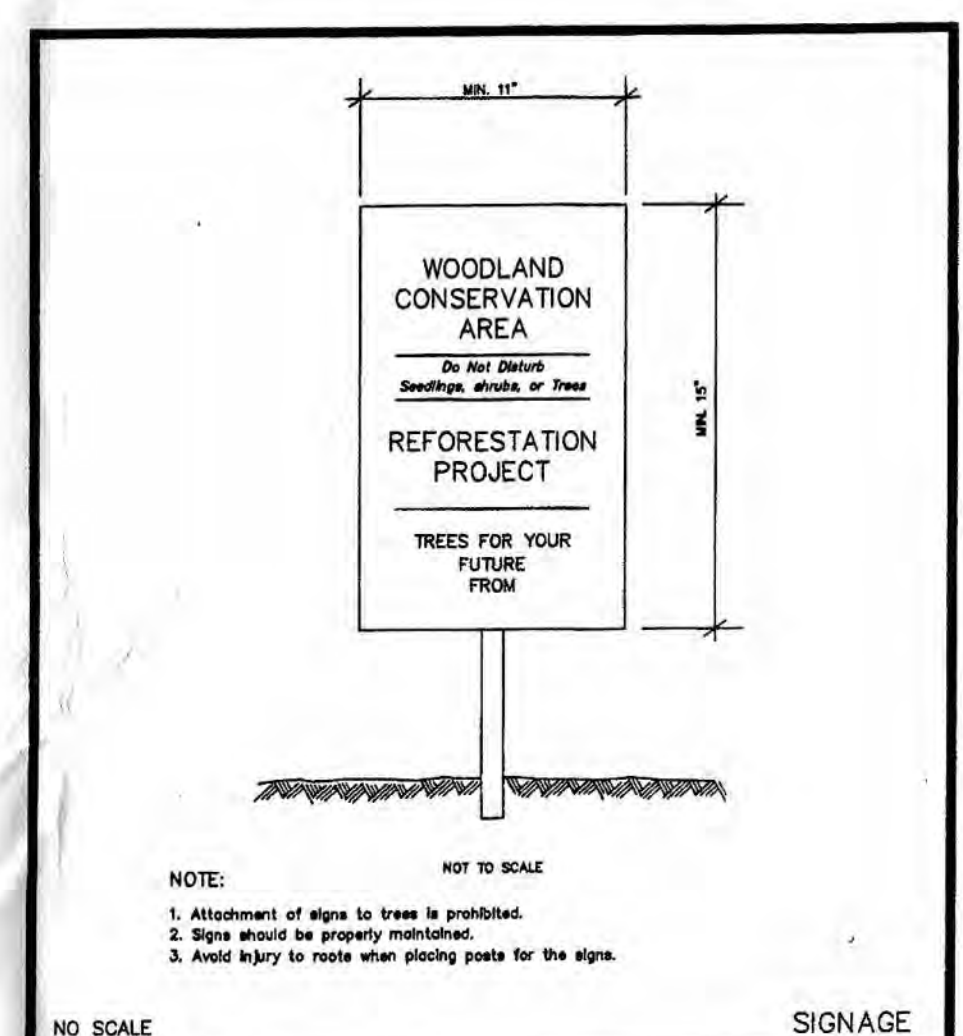
STRESS REDUCTION MEASURE

ROOT PRUNING

NOTE:

- Retention Area will be set as part of the review process.
- Boundaries of Retention Area should be staked and flagged prior to branching.
- Exact location of trench should be identified.
- Trench should be immediately backfilled with soil removed or other high organic soil.
- Roots should be cleanly cut using vibratory knife or other acceptable equipment.

Tree pit to be five times the rootball is preferred, particularly in poor soil.



WOODLAND CONSERVATION AREA

NO SCALE

SIGNAGE

NOTE:

- Attachment of signs to trees is prohibited.
- Sign should be clearly marked.
- Avoid injury to roots when placing signs for the signs.

PLANTING SCHEDULE

TASKS	MONTHS											
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TRANSPLANT OF 2" OR GREATER												
PLANTING SEEDLINGS, PIPES												
MINIMUM MONITORING			*			*				*		
FERTILIZER * (IF NEEDED)												
WATER **												
PRUNING												

KEY
 □ = ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS
 ▨ = GREATLY RECOMMENDED
 ▩ = RECOMMENDED WITH ADDITIONAL CARE
 ▪ = RECOMMENDED
 * = DEPENDENT UPON SITE CONDITIONS
 ** = FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

NOTES:
 The planting and care of trees is most successful when coordinated with the local climatic conditions. The calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.