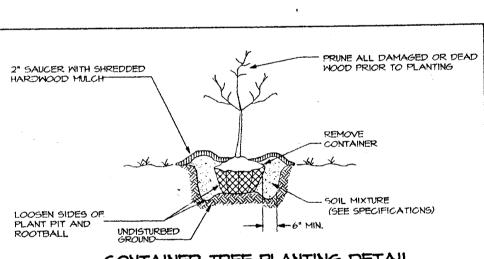


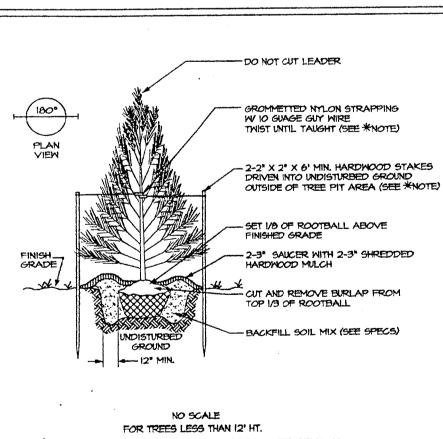
## GENERAL NOTES FOR TREE CONSERVATION

- Any tree cutting or clearing on this site not in conformance with this plan or without the expressed written consent of the Planning Director or designee, shall be subject to the mitigation fee of \$1.50 per square foot of woodland damaged or destroyed.
- 2. The Department of Environmental Resources (DER) Inspectors Office, must be contacted prior to the start of any work on the site to address implementation of Tree Conservation Measures shown on this
- 3. Property owners shall be notified by the Developer or Contractor, of any Woodland Conservation Areas (Tree Save Areas, Reforestation Areas, Afforestation Areas or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances in these areas.
- 4. All appropriate bonds will be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied. Three copies of the bonds are submitted with the grading permit application.
- 5. The location of all Tree Protection Devices (TPD's) shown on this Plan, shall be flagged or staked in the field prior to the pre-construction meeting with the DER inspectors. Upon approval of the flagged or staked TPD locations by the inspector, installation of the TPD's may beain. TPD installation shall be completed prior to installation of initial sediment controls. No cutting or clearing of trees may begin before final approval of the TPD installation.
- 6. All field personnel, including equipment operators and supervisors who might work or direct work in the vicinity of protected trees are to be instructed in techniques for avoiding damage to these trees.
- 7. The layout of the construction site shall provide for special, marked areas for fueling, oil changing and equipment maintenance, employee parking and for materials storage and stockpiling. These areas shall be located as to prevent the deposit of silt or the washing or leaching of petroleum products or other harmful substances, into the tree save
- 8. The following are not allowed within a tree save area: - Depositing of refuse, construction debris, spoil, petroleum products and vehicle or equipment waste water. - Dumping of limbs, stumps, and other clearing debris.
- Driving of any vehicle or eauloment. - Storage or stockpiling of materials and supplies. - Lighting of any fire, including cooking or warming fires.
- 9. Woodland Conservation Tree Save Areas and/or Reforestation shall be posted as shown at the same time as the Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place for five years after completion of work.

## PRE-CONSTRUCTION ACTIVITIES

- Prior to any disturbance of the site, the tree save lines shall be field located by surveying techniques and the appropriate tree protective device (see detail) shall be erected along these designated lines. Only after the tree protective devices have been installed shall any tree cutting or other clearing, grubbing or grading operations begin. All protection devices shall remain in place until all construction has ceased in the immediate vicinity. Devices shall be maintained throughout construction. Attachment of signs, or any other objects, to trees is prohibited. No equipment, machinery, vehicles, matérials or excessivé pedestrian traffic shall be allowed within protected areas.
- After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on site, a pre-construction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate local inspectors shall attend.
- 3. Reforestation planting shall be done after the final grading is established, stabilized and approved by SCD. Reforestation techniques and methods must comply with the details and specifications provided hereon.





## PLANTING SPECIFICATIONS FOR RE/AFFORESTATION AREAS

- 1. Quantity: (see Plant Schedule)
- 2. Type: (see Plant Schedule)
- 3. Plant Quality Standards: The plants selected shall be healthy and sturdy representatives of their species. Seedlings shall have a minimum top growth of 18". The diameter of the root collar (the part of the root just below ground level) shall be at least 3/8". The roots shall be well developed and at least 8" long. No more than twenty-five percent (25%) of the root system (both primary and auxiliary/fibrous) shall show evidence of being cut (pruned) or striped from the plant during the digging process. Substantial auxiliary/fibrous roots shall be present.
- Plants that do not have an abundance of well developed terminal buds on the leaders and branches shall be rejected.
- Plants shall be shipped by the nursery immediately after lifting from the field or removal from the greenhouse, and planted immediately upon receipt by the landscape contractor.
- If the plants cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with their root masses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other suitable material and shall be maintained through periodic watering, until the time of planting.
- 4. Plant Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be planted in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.
- 5. Timing of Planting: The best time to plant seedlings is while they are dormant, prior to spring budding. The most suitable months for planting are March and April, when the soil is moist. November and early December are also acceptable planting times for this region as cool and cloudy weather is considered ideal. Planting shall occur within one growing season of the issuance of grading/ building permit.
- 6. Seedling Planting: Tree seedlings can be hand planted using a dibble bar or sharp-shooter shovel. It is important that the seedling be placed in the hole so that the roots can spread out naturally; they should not be twisted, balled up, or bent. Moist soil should then be packed firmly around the roots. Seedlings should be planted at a depth where their roots collars lie just below the ground surface. Air pockets should not be left after closing the hole which would allow the reets to dry out. See planting details for further explanation. If the contractor wishes to plant by another method, the Landscape Architect must be contacted and give his approval before planting may begin.
- 7. Spacina: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to the Planting Layout detail for a description of the general planting
- 8. Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil preparation and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be taken at a rate that provides one soil sample for each area that appears to have a different soil type (If the entire area appears uniform, then only one sample is necessary), and submitted for testing to, and according to the instructions provided by:

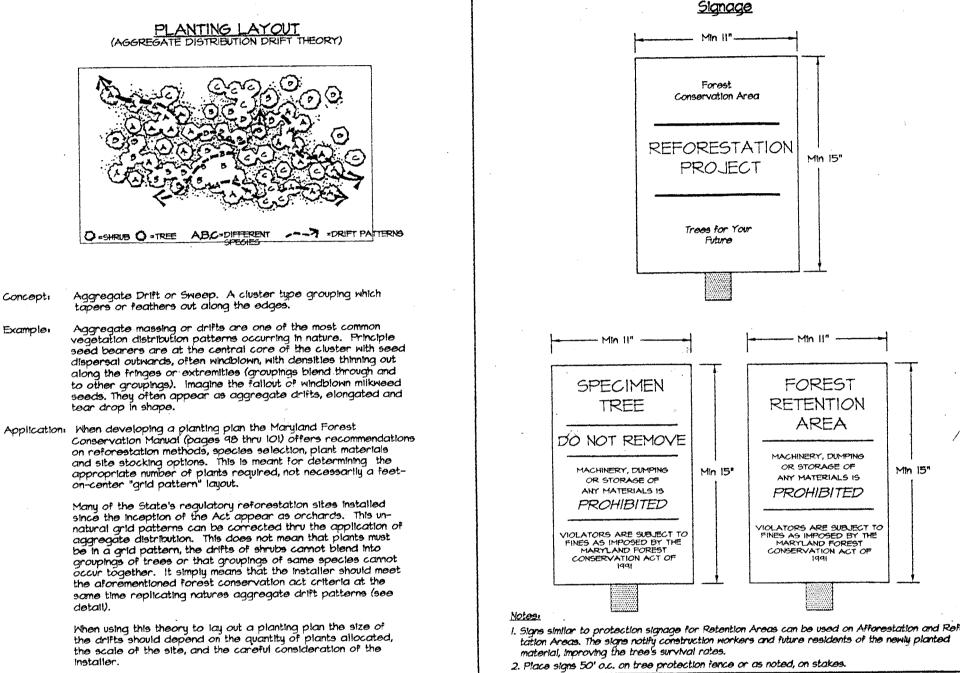
The Soil Testing Laboratory Aaronomy Department, H.J. Patterson Hall University of Maryland College Park, Maryland 20742.

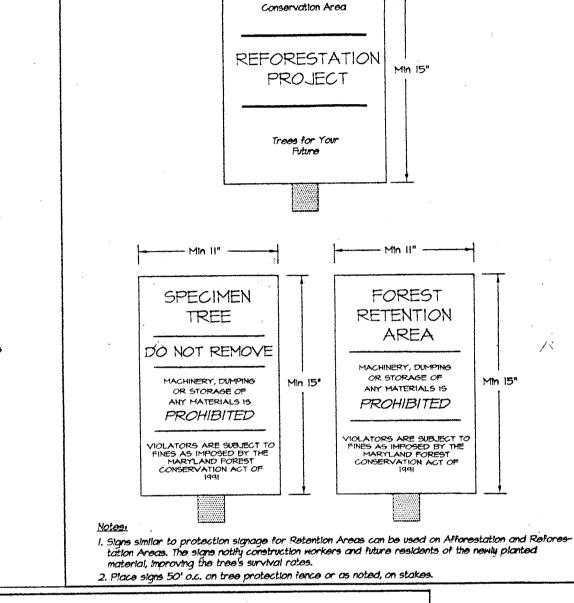
These field tests will be processed for \$5 each, which includes the soil laboratory sending the test results to the Cooperative Extension Service of Prince George's County at the University of Maryland, who will then make recommendations for improving the existing soil. The soil will be tested and recommended for corrections of soil texture, pH, magnesium, phosphorous, potassium, calcium and

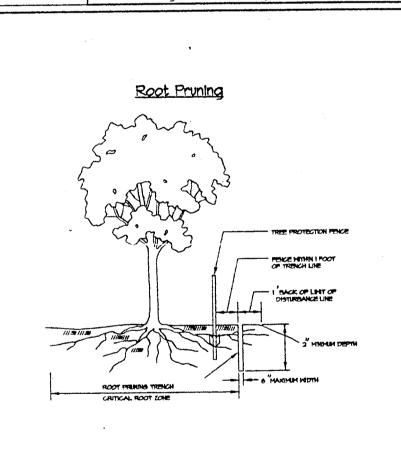
- Soil improvement Measures: The soil shall then be improved according to the recommendations made by the Cooperative Extension Service.
- 10. Fencing \$ Signage: (see Reforestation Area Fence Detail)
- 11. Planting Method: Consult the Planting Detail(s) shown on this plan.
- 12. Mulching: Apply 2" thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown, on this plan).
- 13. Groundcover Establishment: The remaining disturbed area between seedling planting sites shall be seeded and stabilized with white clover seed at the
- 14. Mowing: No mowing will be allowed within the reforestation areas until the seedlings attain a height of 4' or more. Care must be taken to identify seedlings prior to moving activity. 15. Survival Check for Bond Release: The planting area is to be checked at
- the end of each year for two years to assure that no less than 75% of the original planted quantity survives.
- 16. Source of Seedlings: Md. Forest, Park and Wildlife Service in Bowle, Md.; Phone (301) 464-3065. Ruppert Environmental, Ashton, Maryland; Phone: (301)774-0400.

## 5 YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION

- Field check the re-afforestation area according to the following schedule:
- Year 1: Site Preparation and Tree Planting Survival check once annually (September-November, see Note 1) Watering if needed (2 x month) Control of undesirable vegetation as needed (1 x in June & 1 x in September min.)
- Year 2-3: Reinforcement planting if needed (see Note 2) Survival check once annually (September-November) Control of undesirable vegétation if needed (1 x in May &
- Year 4-5: Reinforcement planting if needed (See Note 2) Survival check once annually (September-November)
- 1) Survival Check: Check planted stock against plant list (or as-built) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner after each inspection. Remove all dead plants.
- 2) Reinforcement Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 75% of the number originally planted. If a particular species suffers unusually high mortality, replace with an alternate plant
- 3) Miscellaneous: Fertilization or watering during years I through 3 will be done on an as needed basis. Special réturn operations or recommendations will be conducted on an as needed basis. Remove perimeter fencing and signage after year 5 based on the date planted.
- 4) All reforestation signage and protective fencing shall remain in place for no less than 5 years after the completion of planting. At the end of 5 years, a representative of the Environmental Planning Section shall conduct a site visit to determine the need for the signage and fencing to remain in place for an additional period of time not to exceed 5 years. This determination shall be made based on the survival rate of the existing reforestation plantings.







 Retention Areas to be established as part of the forest conservation plan review process. 2. Boundaries of Retention Areas should be staked, flagged and/or fenced prior to trenching. 3. Exact location of trench should be identified. 5. Roots should be cleanly cut using vibratory laife or other acceptable equipment.

unce: Handand State Forest Conservation Technical Hanual, 5nd Edition - 199

COMBINATION EARTH DIKE & TREE PROTECTION - TYPE III

FLAGONO TAPE EVERY 6' O.C.

I. Combination sectment control and forest protection device. 4. Root damage should be avoided.

2. Boundaries of the Retention Area will be set as part of the forest conservation plan neview process 3. Boundaries of Retention Area should be staked prior to installing protective devices 5. The toe of slope should be outside the critical root zone 6. Equipment is prohibited within critical root zone of retention area; place dike accordingly. 7. All standard maintenance for earthen dikes and swales apply to these details. 8. All standard reclamation practices for earthen clikes and smales shall apply to these details.

STANDARD SYMBOL

. \_ \_ T \_ \_ \_ T ·

M-NCPPC Prince George's County Planning Department **Environmental Planning Section** APPROVAL TREE CONSERVATION PLAN

08 revision

TCP2-0004-02-07 Initial staff Johh Markovich 01 revision Johh Markovich 02 revision Johh Markovich 03 revision Johh Markovich 3/30/04 04 revision Johh Markovich 11/19/04 05 revision 6/27/05 Kim Finch 06 revision Kim Finch 7 revision 9/17/07 Kim Finch

nce George's County Planning Departmen

Natural Resources Division

REE CONSERVATION PLAN

TCP 11 × 4 / 02 - 01

APPROVAL

Approved by

John Markovikh

ohn Markovich

John Markovich

DETAIL SHEET TREE CONSERVATION PLAN TYPE II PARCELS 'B' THRU 'G', BLOCK 'I'

PLANT SCHEDULE FOR RE/AFFORESTATION

TOTAL RE/AFFORESTATION PROVIDED: = 29.11 ACRES

Tulip

Poplar

364

56

236

204

120

130

100

62

40

174

Acreage

0.28

1.18

1.02

0.03

0.07

0.02

0.04

0.29

0.50

0.31

0.20

0.87

2.90

SECTION 1-Establishing Site Information

SECTION 2-Determining Requirements

Woodland Cleared in Project Limits

Noodland Conservation Requirement:

Afforestation /Reforestation

Natural Regeneration

Landscape Credit

SECTION 3- Meeting the Requirements

Speciment/Historic Tree Credit (CRZ area \*2.0)

Prior Credit for Off-site Woodland Conservation

Current Credit for Off-site Woodland Conservation

Street Tree Credit (Existing or 10-year canopy coverage)

Off-site Woodland Conservation provided (afforestation)

Off-site Woodland Conseration provided (preservation)

Forest Enhancement Credit (Area \*.25)

Area Approved for Fee-in-lieu/PFA

oodland Conservation Provided

Area Approved for Fee-in-lieu/non-PFA

2/25/2025

Existing Woodland in Project Limits = WCT

Total area of woodland cleared (subject to 1:1 replacement)

Off-Site Woodland Conservation Provided (afforestation)

Off-Site Woodland Conservation Provided (preservation)

Property Description or Name:

Project Location;

TCP2 Number:

Gross Tract:

Project Area/Limits:

Reforestation

RA-8

RA-9A

RA-9B

RA-90

RA-II

RA-12

RA-13B

RA-13C

RA-14

RA-15A

RA-15B

RA-16

RA-ITA

RA-ITB

RA-18

RA-19

RA-20

Area

STOCK SPECIFICATION: 1000 SEEDLINGS PER ACRE

(18.76 ACRES PROPOSED HEREIN) + (10.35 ACRES APPROVED IN PHASE I, PT. ONE)

364 | 364

236 236

204 204

120 | 120

130

86

58

100

62

40

174

580

1396

3,752 3,752 3,752 3,752 3,752

56 | 56

Sweet

Gum

130

86

100

62

40

174

580

1,396

**Woodland Conservation Worksheet** 

for Governmental and Linear Projects in Prince George's County

1 - Reforestation Areas 1-7 were planted under TCP II / 12 /00 as approved for Phase I Part One.

2 - All tree/shrub species planted within the re/afforestation areas, should be randomly distributed throughout the proposed re/afforestation area, so as to promote a natural woodland structure.

3 - In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental Planning Section.

airwood ES

CP2-004-02

3250 Fairwood Pkwy

Signed Ivan Zapata

PROJECT NUMBER: DSP-02015

M-NCPPC APPROVALS

PROJECT NAME, PAIRWOOD, PHASE I, PART 2 15

Sheet Ravision Listed Below Apply to The Sheet

Seedling Selection

Red

Oak

364

236

204

120

130

86

100

174

LMXC

0.00 Bond amount: | \$

0.00 Fee amount:

0.00 Fee amount:

\$0.00

2/21/2025

American

Sucamore

236

204

40

174

Red

Maple

Total No. of

Seedlinas

1,820

280

1.180

1,020

600

650

70

20

40

430

290

500

570

310

200

870

2,900

6,980

18,760

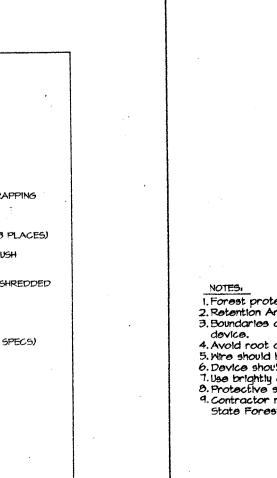
30

PARCEL 'A', BLOCK 'J' LOTS 1-21, 44-49 (FORMERLY LOTS 22-35) \$ PARCELS 'A' THRU 'D', BLOCK 'K' LOTS 69-188 \$ PARCELS 'D', 'E', \$ 'F', BLOCK 'L (FORMERLY LOTS 1-68 & PARCELS 'A' & 'B', BLOCK 'L') PARCEL 'A', BLOCK 'N' AND ASSOCIATED STREETS

PHASE I, PART TWO-B

PRINCE GEORGE'S COUNTY,

TCP SHEET 2 OF 12 11721 WOODMORE ROAD, SUITE 200 5/31/05 | Rev. to update reforestation areas 9A & 9B per GLW 6/1/05 BEN DYER ASSOCIATES, INC 3/10/05 | Rev. to updated areas 27 \$ 29 Engineers / Surveyors / Planners 12/20/04 Rev. to Update Areas 25, 27, 29 ¢ add GLW Sheets | k 0/7/04 | Rev. Reforest areas for Roberts Lots OPYRIGHT @ 2002 BEN DYER ASSOCIATES. IN RAWN BY DESIGNED BY CHECKED BY RECORD NO.
MS KH TK 3/26/04 | Rev. clearing & reforest.areas at pond 6A Mogan Keiser 2/12/03 | Rev. to add grading into NE Phase II, Pt. One AS SHOWN Megan Reiser Qualified Professional "FEBRUARY 2002 REVISIONS DESCRIPTION COMAR 08.19.06.01



1. Retention Area will be set as part of the review process.
2. Boundaries of Retention Area should be staked and flagged prior to installing device.
3. Avoid root damage when placing anchor posts.
4. The should be securely attached to posts.
5. Device should be properly mathathed during construction.
6. Use brightly colored surveyor's flagging every 4 feet.
7. Protective signage is also recommended.

FILTER
CLOTH STATISTICS IN THE STATE OF SECTION B CROSS SECTION - STAPLE STANDARD SYMBOL ENCE SECTIONS CONSTRUCTION SPECIFICATIONS I. Fence posts shall be a minimum of 36" long driven 16" minimum into the around. Mood posts shall be 1 1/2" x 1 1/2" square (min) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot. Sectional to half be fastened securely to each fonce post with wine ties or staples at top and mid-section and shall meet the following requirements for Sectional Class Pt Tensile Strength 50 lbe/h²(min.)
Tensile Modulus 20 lbe/h²(min.)

Handling Seedlings in the Field

Seedling and Whip Planting Specification

Figure 3.36 notes the correct method for handling seedlings in the planting field. Seedlings dry

out very quickly and, once dry, often are not usable even after moistening.

In booket with sufficient sector to cover roots

3. Where ends of geotextile fabric come tagether, they shall be overlapped, folded and stapled to prevent sediment 4.9ilt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sectment accumulation reached 50% of the fabric height.

TREE PROTECTION FENCING - TYPE I

Source: Prince George's County, Haryland: Hoodland Conservation Hastal

PLAN SYMBOL 1. Forest protection device only. ?. Retention Area will be set as part of the review process. 3. Boundaries of Retention Area should be staked and flagged prior to installing 4. Avoid root damage when placing anchor posts. 5. Whre should be secured attached to posts.
6. Device should be properly maintained during construction.
7. Use brightly colored surveyor's flagging every 4'. 9. Contractor may use blaze orange tree protection fence or equal according to MD State Forest Conservation Technical Manual Figure D-5.

Yulching newly planted seedlings is suggested as it helps the soil retain moisture and it protects the seedling from compaction and stem injury. 2 STRAND GALVANIZED STEE WIRE 12 OR 14 GAUGE SURVEYOR'S FLAGGING --

COMBINATION SILT FENCE & TREE PROTECTION - TYPE I

REMOVE DAMAGED, BROKEN OR CONFLICTING BRANCHES 2-2" X 2" X 6' HARDWOOD POSTS-GROMMETTED NYLON STRAPPING WRAP TRUNK WITH TREE WRAP WRAP TRUNK WITH TREE WRAP, SPAMMETTED NYL ON STRAPPING O SECOND TIER OF BRANCHES W 10 GUAGE GUY WIRE TIE WITH TWINE AT THREE PLACES W 10 GUAGE GUY WIRE TIE WITH TWINE AT THREE PLACES MINIMUM TO SECURE WRAP. (START FROM BOTTOM AND MINIMUM TO SECURE WRAP. SURVEYORS FLAG (TYP. 3 PLACES) (START FROM BOTTOM AND FIRST LATERAL ROOT FLUSH CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL - 2-3" SAUCER WITH 2-3" SHREDDED CUT AND REMOVE BURLAP FROM HARDWOOD MULCH - 2-3" SAICER WITH 2-3" SHREDDED HARDWOOD MULCH STAKES (3 REQUIRED) PLACE STAKE AT A PLACE STAKE 2" BELOW GRADE - BACKFILL SOIL MIX (SEE SPECS) POSTS DRIVEN INTO UNDISTURBED GROUND OUTSIDE OF TREE PIT AREA GROUND ----12" MIN. B & B TREE PLANTING DETAIL B & B TREE PLANTING DETAIL NO SCALE SECTION NO SCALE SECTION FOR TREES 2 1/2" CALIPER OR GREATER FOR TREES LESS THAN 2 1/2" CALIPER NOTE, STAKES, STRAPPING AND WIRES TO BE REMOVED SIX MONTHS AFTER INSTALLATION

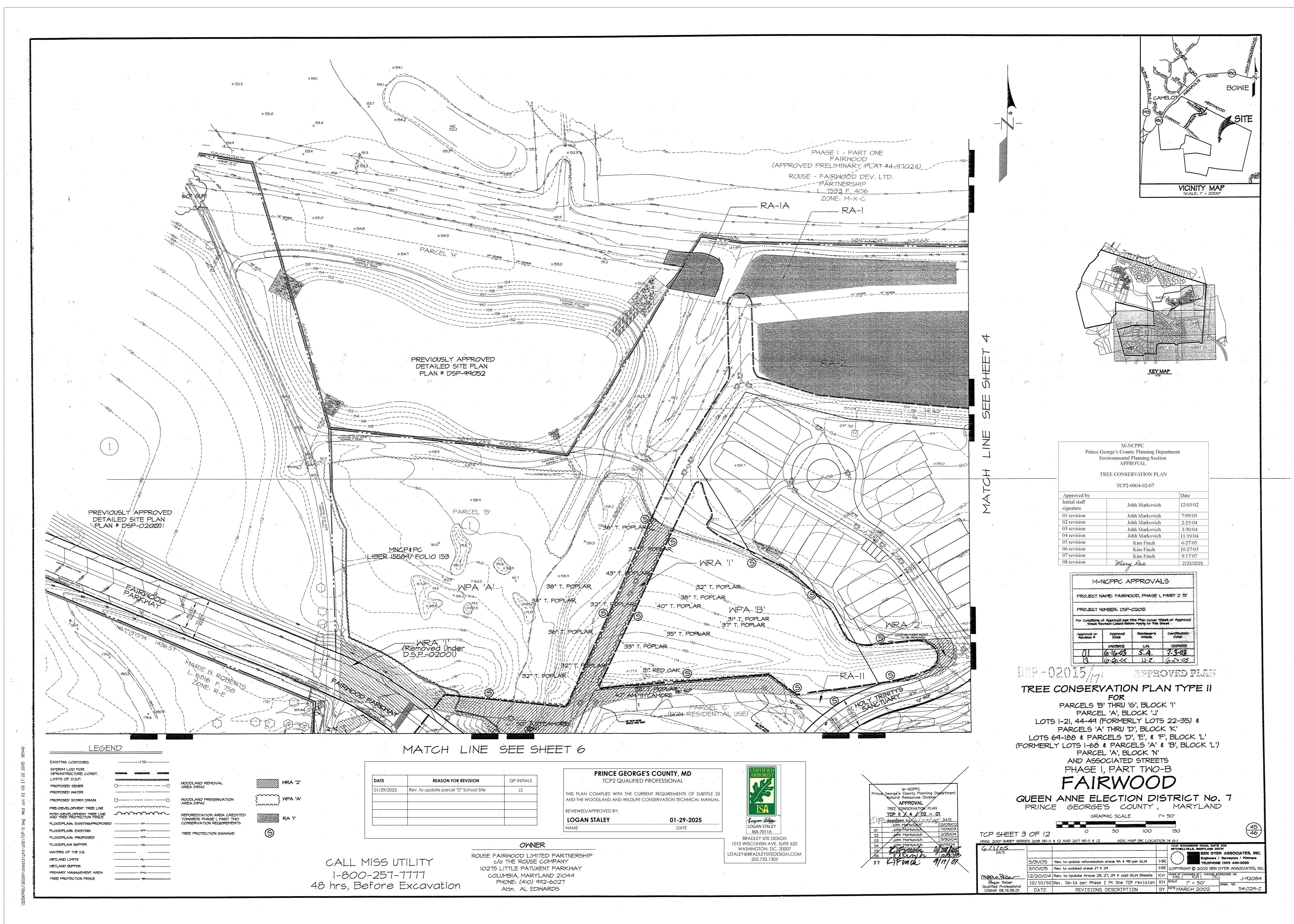
DECIDUOUS, B & B TREE PLANTING DETAILS

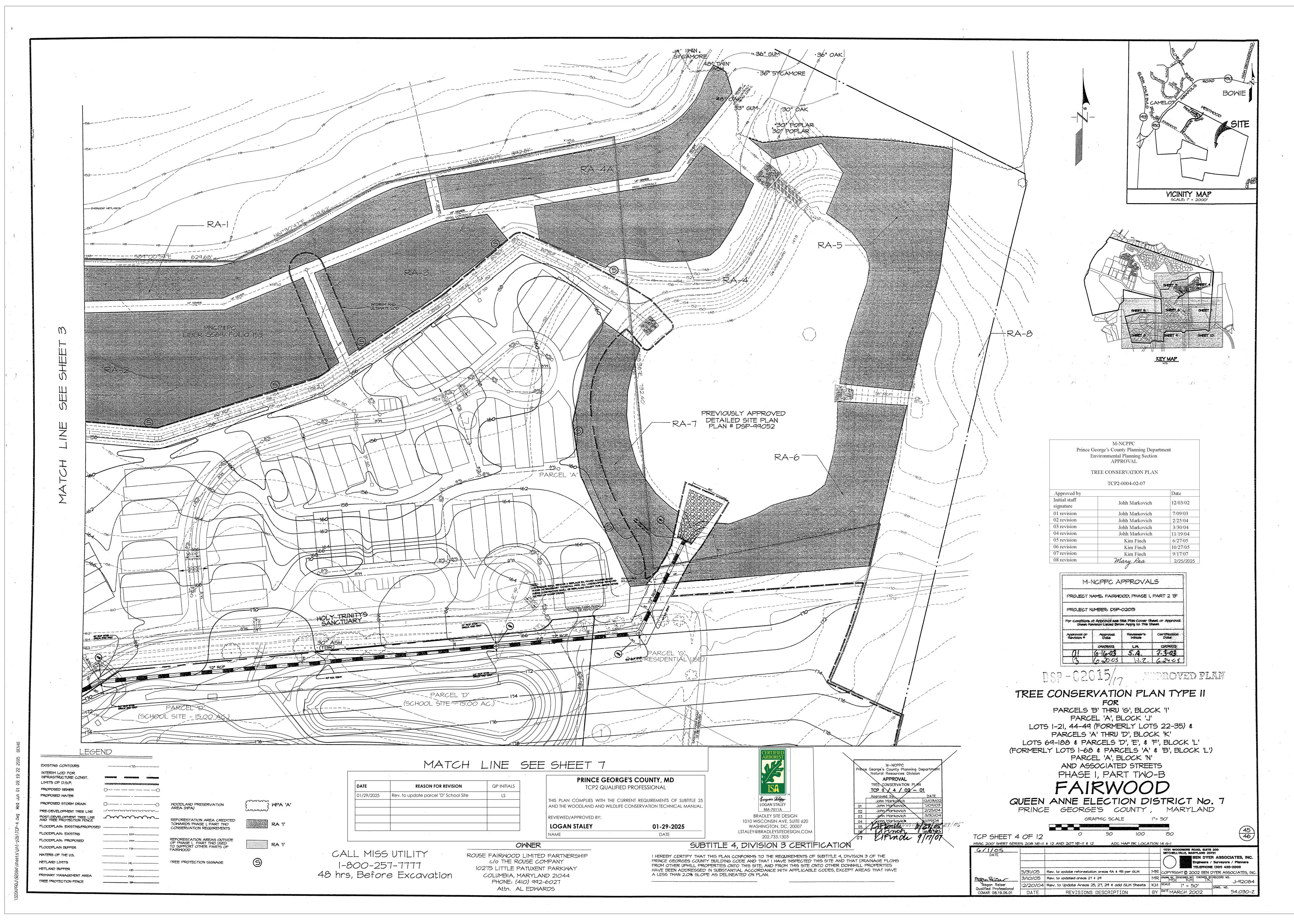
NEVER OUT MAIN LEADER

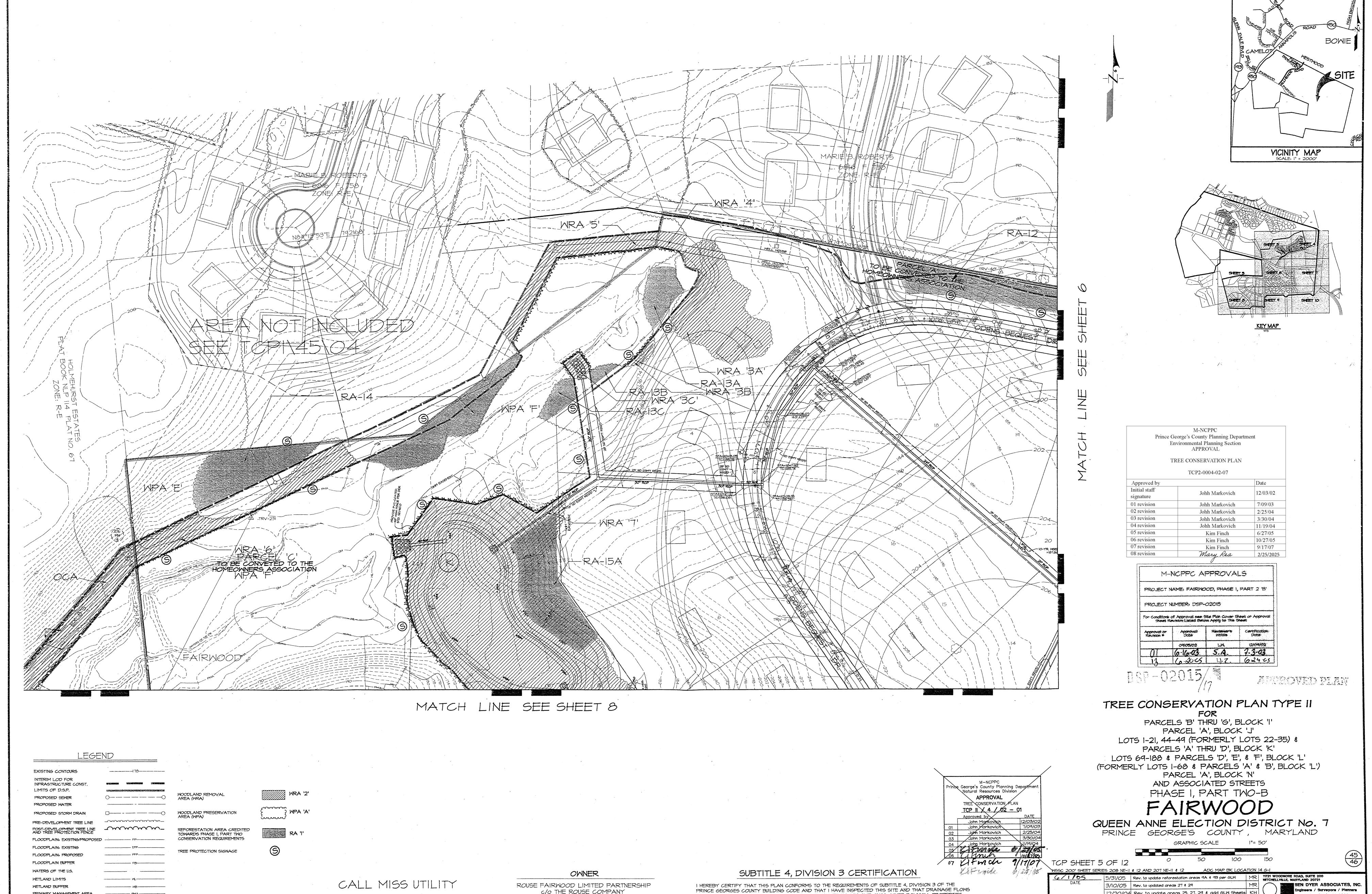
RETAINING NATURAL FORM

\*NOTE: STAKES, STRAPPING AND WIRES TO BE REMOVED SIX MONTHS AFTER INSTALLATION EVERGREEN TREE PLANTING DETAIL SELECTIVELY PRUNE TOP 1/4th OF BRANCHES-REMOVE DAMAGED BROKEN OR CONFLICTING BRANCHES\_\_\_

CONTAINER TREE PLANTING DETAIL







FROM OTHER UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO OTHER DOWNHILL PROPERTIES

A LESS THAN 2.0% SLOPE AS DELINEATED ON PLAN.

HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES, EXCEPT AREAS THAT HAVE

12/20/04 Rev. to update areas 25, 27, 29 \$ add GLW Sheets KH

REVISIONS DESCRIPTION

KH COPYRIGHT @ 2002 BEN DYER ASSOCIATES, IN

BY DATE MARCH 2002 54.031-Z

KH SCALE |" = 50' DRWG. NO.

10/6/04 | Rev. to remove Roberts Property Lots

Megan Reiser Qualified Professional COMAR 08.19.06.01 3/18/03 | Rev. street grades and add house locations

2/12/03 | Rev. to add grading into NE Phase II, Pt. One

c/o THE ROUSE COMPANY

10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MARYLAND 21044

PHONE: (410) 992-6027

Attn. AL EDWARDS

1-800-257-7777

48 hrs, Before Excavation

TREE PROTECTION FENCE

