2. The Department of Environmental Resources (DER) must be contacted prior to the start of any work on the site to address implementation of Tree Conservation measures shown on this Plan.

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 to these areas. Upon the sale of the property the owner / developer or owners representative shall notify the purchaser of the property of any Woodland Conservation 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.

5. The location of all Tree Protective Devices (TPD's) shown on this Plan shall be flagged or staked in the field prior to the pre-construction meeting with the Sediment and Erosion Control Inspector from DER. Upon approval of the flagged or staked TPD locations by the Inspector, installation of the TPD's may begin. TPD installation shall be completed prior to installation of initial Sediment Controls. No cutting or clearing of trees may begin before final approval of TPD installation.

7. Since work on this project will be initiated in several phases all TPD's required for a given phase shall be installed prior to any disturbance within that phase of work.

8. Woodland Conservation - Tree Save Areas shall be posted as shown at the same time as Tree Protective Device installation.. These signs shall remain in place for a period of two (2) years.

## General Type II T.C.P. Notes

#### NARRATIVE

This Type II Tree Conservation Plan has been prepared for the 169.92 acre Edelen Village North and South and Park Property which is part of the Preserve at Piscataway development located in Prince George's County, Maryland. The plan identifies 46.77 acres of existing forest to be cleared for the placement of infrastructure and proposed single family residential housing. 29.68 acres of forest will be preserved. The remaining Woodland Conservation that is required will be addressed on future TCPII's for The Preserve project. The goals of forest preservation at the Preserve at Piscataway property include: -provide a biofiltering buffer for the existing wetlands

-provide a visual screen for the adiacent residential communities

#### -preserve wildlife habitat -protect steep slopes

## **GENERAL NOTES**

1. This reforestation plan is provided in accordance with the requirements of the Prince George's County Woodland Conservation and Tree Preservation Acts (CB-106-1992 and CB-107-1992) 2. These Type II plans are to be used for Tree Conservation purposes only.

3. No tree cutting or clearing shall take place on this site without the expressed written consent of the Prince George's County Planning Board, its designee, or the approval of this Type II Tree Conservation Plan (TCP).

4. The Prince George's County Department of Environmental Resources (DER) is in charge of enforcement of the Tree Conservation Plan. Any violation of the approved Type II TCP may result in the issuance of a stop work order and/or a mitigation fee of \$1.50 per square foot of woodland area destroyed unless otherwise agreed to by both DER and the Maryland-National Capital Park & Planning Commission (M-NCPPC). TREE PROTECTION

1. Following approval of the Type II TCP and prior to construction, the Limits of Disturbance (LOD) will be marked in the field. 2. The Owner's representative will hold a pre-construction meeting before any grading or clearing activities. This meeting will include the construction manager, the chief equipment manager and operator, a representative of the Department of

Environmental Resources Permits and Review Division/Inspection & Code Compliance Section (301-731-8790), and any other personnel involved in construction activities within 100 feet of the Limits of Disturbance (LOD). During this meeting, the LOD will be inspected and the location of all tree protection devices will finalized. Adjustments to the LOD may be made at this time. In addition, the following items will be covered by the owner's representative:

-the importance and overall goal of the Tree Conservation Program -the critical role of construction personnel in the success of the Tree Conservation Program

### -the reasons for tree protection devices

-construction methods to ensure the protection of Woodland Conservation Areas

3. Tree Protection Devices for this site will consist of orange safety fence with temporary tree protection signs. These devices will be installed along the LOD boundary prior to any disturbance or clearing activity. Typical details and installation methods for these devices appear on this sheet. Tree protection signs shall be freestanding and not attached in any fashion to existing trees. The installation of tree protection signs and tree protection devices is the responsibility of the general contractor.

4. No equipment, vehicles, machinery, waste, or construction materials shall be stored or dumped within the Woodland Preservation Areas. Moreover, no disturbance to these areas shall be allowed. In the event of a violation of this approved Type II TCP, fines may be levied and/or enforcement action taken by the Prince George's County Department of Environmental Resources as specified above.

5. The general contractor shall provide a "WASH-OUT" area for concrete trucks on site. This area shall be selected so that no run-off from this area may enter the Woodland Conservation Areas. The location of this "WASH-OUT" area shall be identified by the contractor during the pre-construction meeting.

6. The owner's representative shall monitor the general contractor's construction from time to time to ensure the proper protection of the Woodland Conservation Areas and adherence to these plans and specifications. The owner may issue a "Stop Work Order" if, in the opinion of his representative, the general contractor is exercising procedures that are detrimental to the vitality of the trees within the Woodland Conservation Areas. At that time, the County Inspector shall determine if any trees have been damaged beyond repair. If the contractor has damaged trees beyond repair, then the general contractor shall be responsible for all forest mitigation required by the Prince George's County Department of Environmental Resources.

7. All trees to be removed within 50 feet of designated Woodland Conservation Areas shall be felled away from Woodland Conservation Areas to avoid any damage to preserved trees. The stumps of trees removed within this 50 foot zone shall be ground out with a stump grinder or other method in order to minimize damage to root systems of trees to be preserved. This work shall be completed by a Maryland Licensed Tree Expert.

8. Unless otherwise approved by Prince George's County, Tree Protection Devices shall be maintained in place until construction completion and final inspection by the Department of Environmental Resources Permits & Review Division. 9. If damage to woodland preservation areas is found during final inspection, the owner may be required to perform the

following: -stress reduction measures (e.g., root pruning)

#### -tree or limb removal -replacement planting

## **SPECIMEN TREES**

Specimen Tree 2430 requires root pruning because of its proximity to the proposed LOD. The critical root zone has been calculated using a formula applicable to trees existing either in a forested and an isolated environment. The formula used for calculating the critical root zone for specimen trees located in a forested area is; one inch of trunk diameter at breast height equals a one foot radius of the critical root zone. The formula used for calculating the critical root zone for isolated specimen trees is; one inch of trunk diameter at breast height equals a one and one-half foot radius of the critical root zone.

#### **SEQUENCE OF STRESS REDUCTION MEASURES** 1. These protection measures apply to specimen tree 2430.

2. During the flagging of the Limits of Disturbance, every possible step shall be taken in the field to avoid disturbance to the CRZ of the above listed specimen tree. If avoidance of specimen tree 2430 is determined to be impossible, then a licensed arborist shall evaluate the benefit of root pruning considering the condition of the tree. Root pruning shall be conducted for specimen 2428, 2442. & 2427 only if recommended by the arborist.

3. Root pruning and any other stress reduction measures recommended during the pre- or post-construction meetings shall be conducted by a Maryland Licensed Tree Expert.

## General Type II T.C.P. Notes Con't

## 4. Root pruning:

A. Trench the area 1' beyond the LOD and excavate approximately 24 inches deep with a 4-6 inch trencher. Refer to this sheet for the root pruning detail and notes

B. Immediately after trenching and cutting through all roots in the trench area, prune the root so as to provide good clean cuts. Backfill the trench with the excavated material or other high organic soil. C. Water the backfilled trench immediately, until trench overflows. Settled areas should be filled with backfill until level

with the existing ground. D. Apply a 3" deep, 3' wide band of mulch to the tree's critical root zone at the limit of forest clearing (adjacent to the LOD).

5. Install tree protection devices per these plans.

LONG TERM MANAGEMENT PLAN FOR WOODLAND PRESERVATION AREAS

1. The objective of woodland preservation is to allow the forest community to develop naturally with little or no interference by man. Activities within these areas shall be limited to passive recreation.

2. Any disturbance to these areas following construction must first be approved by Prince George's County Planning Director. Cutting or clearing of these areas without approval shall be subject to a \$1.50 per square foot mitigation fee. 3. Upon the sale of each lot, the owner/developer or the owner's representative shall be responsible for notifying the purchaser of any Woodland Conservation Areas and the associated fines for unauthorized disturbances to these areas.

#### Tree Preservation Areas

Label	Acreage (±)	Label	Acreage (±)
Α	8.41	E	4.31
В	0.88	F	7.65
С	0.00	G	0.85
D	3.66	Н	3.65

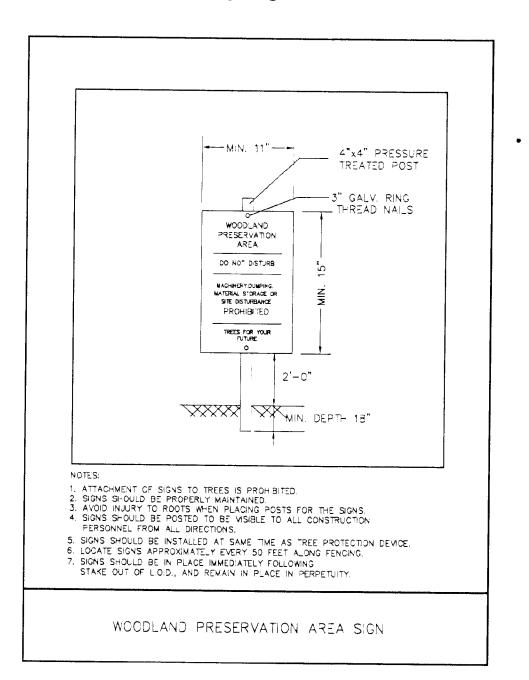
29.41 acres (±)

# Tree Protection Fence Blaze Orange Plastic Fence Anchor posts should be minimum 2" steel Anchor posts must be put in the ground to a depth of at Use 8" wire 'U' to height of the post

FOREST PROTECTION DEVICE ONLY RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED ROOT DAMAGE SHOULD BE AVOIDED. PROTECTIVE SIGNAGE MAY ALSO BE USED.
DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

## SIGNAGE

Forest Protection Signage



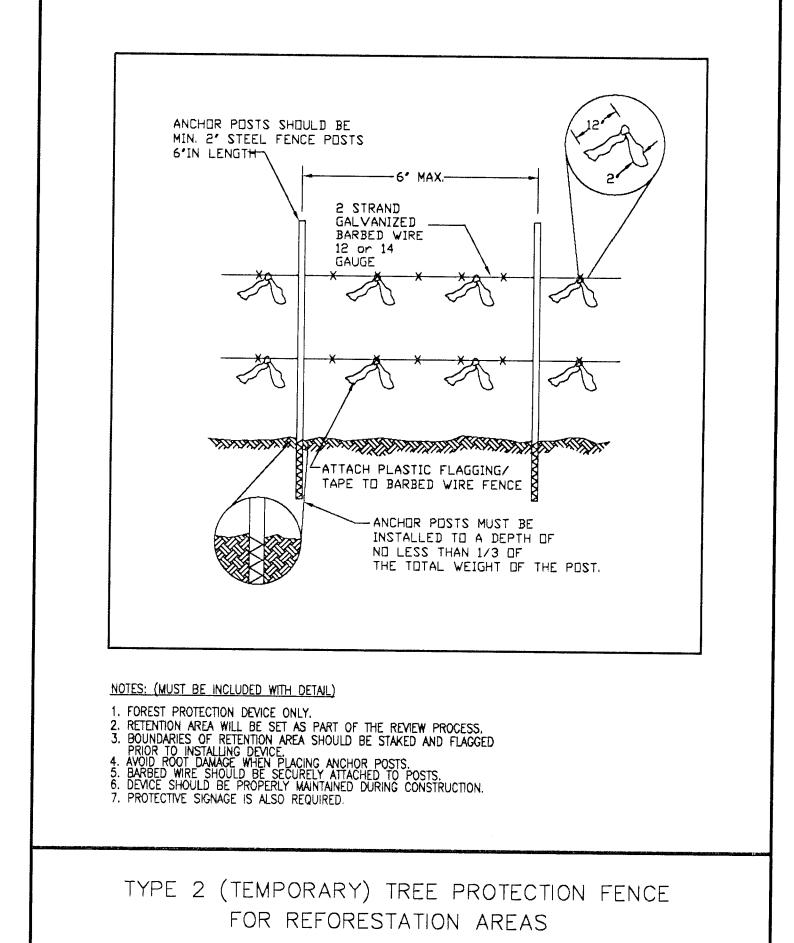
PREPARED FOR:

**NVR MS Cavalier Preserve, LLC.** 

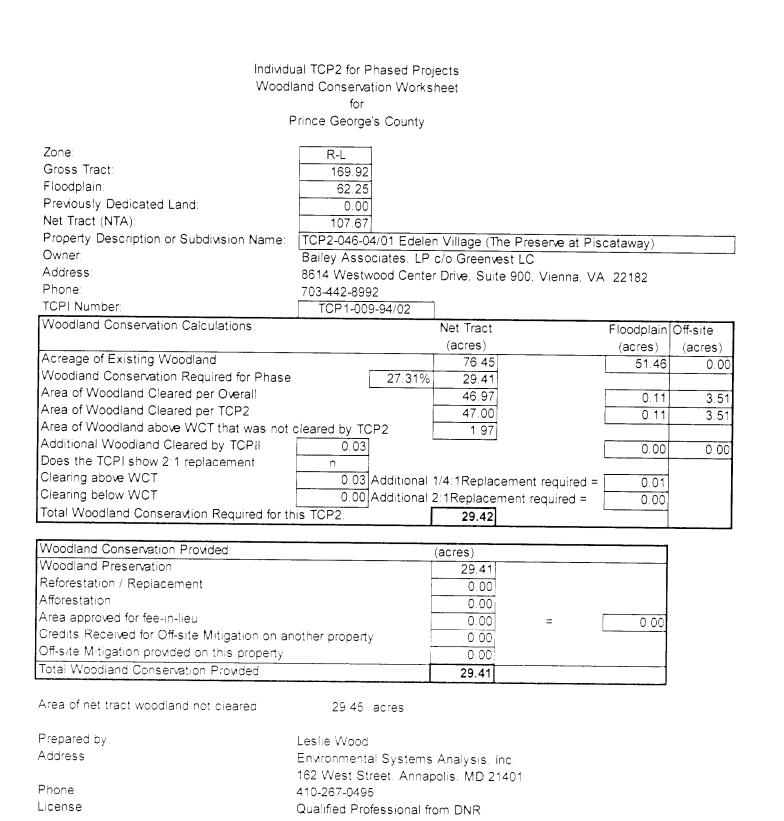
8614 WESTWOOD CENTER DRIVE

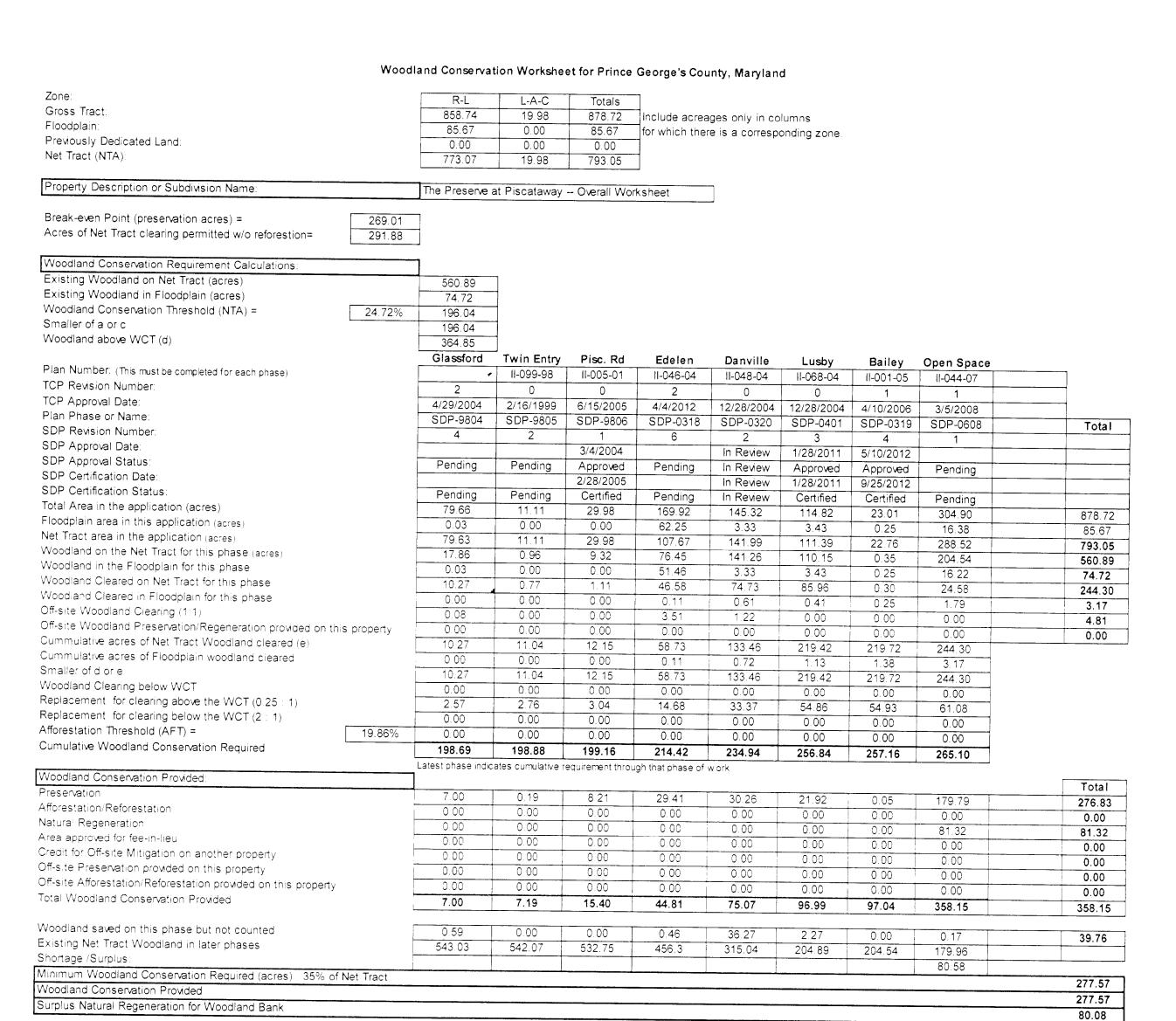
SUITE 900

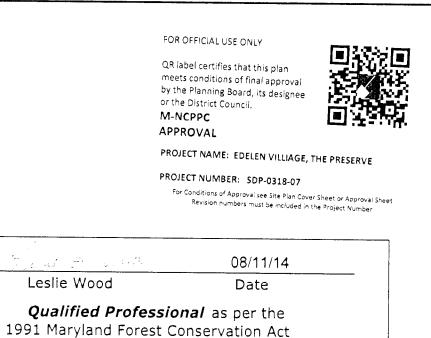
VIENNA, VIRGINIA 22182



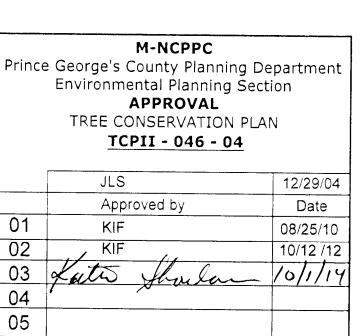
Type 2 (Temporary) Tree Protection Fence







Issued July 1, 2004



TREE Ш **—** —

## **REVISIONS**

January 10, 2004 October 4, 2004 November 16, 2004 June 25, 2010 August 9, 2010 March 6, 2012 September 26, 2012 June 10, 2013

December 12, 2013 January 16, 2014

August 11, 2014 Date:

Date: Checke Scale:

Sheet No.

Project/File No.

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