

Community Forestry Management Plan  
2010-2015

Hopewell Township, Mercer County  
New Jersey



**Prepared by:**  
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May 2010

Rec'd 12/15/09

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# Community Forestry Management Plan

## MUNICIPAL/COUNTY INFORMATION FORM

Municipality Township of Hopewell

County Mercer

Address 201 Washington Crossing - Pennington Road

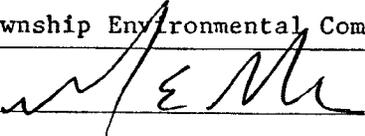
Titusville, New Jersey 08560

Contact Name and Title Paul Pogorzelski, Township Administrator / Engineer

Phone # 609-737-0605, Ext. 664

Fax # and E-mail 609-737-6839 paulpogo@hopewelltp.org

Organization Name Hopewell Township Environmental Commission

Mayor/County Freeholder's Signature 

Date of Management Plan Submission May 24, 2010

Time Period Covered in Management Plan 2010 - 2015

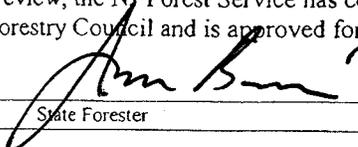
Community Stewardship Incentive Program (CSIP) Practices Identified in Management Plan

- CSIP #1 Plan Preparation
- CSIP #2 Training
- CSIP #3 Public Education and Awareness
- CSIP #4 Arbor Day Activities
- CSIP #5 Assessment/Inventory
- CSIP #6 Tree Hazard Identification Plan
- CSIP #7 Tree Planting
- CSIP #8 Tree Maintenance
- CSIP #9 Tree Recycling
- CSIP #10 Ordinance Establishment
- CSIP #11 Tree Care Disaster Plan
- CSIP #12 Insect and Disease Management
- CSIP #13 Other

### Official Use Only Certification

The above named municipality/county has made formal application to the New Jersey Forest Service. I am pleased to advise you that after our review, the NJ Forest Service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Council and is approved for the period covered.

Signed

  
State Forester

6-14-10  
Approved date

## **INTRODUCTION**

Healthy trees are an asset to the Community. It is inevitable that as they mature, they will require care, maintenance and eventual replacement. Care and maintenance, in addition to *“planting the right tree in the right place”* can ensure that community trees not only contribute to the environmental and economic vitality of the town, but also reduce the potential hazards to public safety.

The implementation of this plan will stimulate the public's appreciation for trees and the knowledgeable but voluntary protection of trees on private lands for the benefit of the entire community.

This Community Forestry Management Plan demonstrates that Hopewell Township is devoting reasonable levels of resources in a planned manner to reduce the number of tree related accidents thereby, reducing its exposure to liabilities and increasing public safety.

## **EXISTING FORESTRY MANAGEMENT**

Hopewell Township's forestry management is presently a function of its Public Works Department. Township rights-of-way and open spaces are routinely inspected by staff and required tree maintenance is scheduled on a priority basis with safety being the primary objective. Contractor services are utilized as required based upon the specific conditions. Trees that are cut down or pruned and chipped are recycled through firewood or chips.

Resident complaints/concerns are reviewed by the Director of Public Works or their designee. Inspections are made at the direction of the Director and a work plan developed if deemed necessary. If the inspection reveals the tree is located outside of the area of public responsibility, the complainant is provided information on how to secure the situation.

Replacement plantings or new plantings in public open space and recreation areas are planned as recommended by staff, consultants or the public and considered as part of the operating budget for Public Works or Recreation Departments or as part of capital projects.



**Tree lined streets in Hopewell Township close to the Borough of Pennington**

Species for all new plantings along Township Roads are selected based upon a preferred species planting list. Existing soil and growing conditions are inspected prior to species selection.

A public works staff of 5 is available to perform basic tree maintenance and new tree installation.

The Township has no formal systematic program for the inventory of street trees but has an interest to explore this option in the next 5-year plan.

## MISSION STATEMENT

To identify, increase, enhance, protect and promote the tree and forest resources of Hopewell Township within the context of previous planning documents and municipal land-use ordinances.

## GOALS AND OBJECTIVES

Preserving and protecting our trees and forests is necessary to preserve and protect the ecosystem. Our woodlands are not only habitat; they also serve to recharge critical groundwater supplies and naturally help to regulate stormwater runoff. Hopewell Township did not always have the mature forests that presently thrive; rather the community was comprised of many acres of rich farmland that was succeeded by woodlands.

The many acres of farmland in the photo of Baldpate Mountain area in 1932 is contrasted by the significant forests in the 2008 photo of the same area that can be seen on the cover of this report.

The goals and objectives by which tree resources within the Township of Hopewell will be managed are detailed in the following sections. Short-term objectives and tasks are provided for the initial five-year management period 2010-2015. Each year accomplishments of the previous year will be evaluated and tasks for the following year will be adjusted, as necessary, to maintain progress toward the overall goals and objectives. At the end of each five-year management period, new short-term objectives and work tasks will be formulated for subsequent five-year periods.



These goals and objectives focus on trees within Township open spaces, parks and other Township-owned properties including street rights-of-way.

## **1. INCREASE BIODIVERSITY IN THE COMMUNITY FOREST.**

Blight, diseases and other major factors can potentially destroy forests. Mitigation of such factors should be part of any strategy to protect trees and forests. Biodiversity is one strategy along with management of grazing populations of deer.

These goals can be met by:

- i. Objective 1: Reducing deer browse damage by coordinating deer population management efforts. (2011)
- ii. Objective 2: Encourage planting of tree species that are native and urban tolerant. (2010)
- iii. Objective 3: Develop a recommended native tree list and make accessible to the public using all available means. (2010)
- iv. Objective 4: Discourage planting of invasive species through the published tree planting list. (2011)

## **2. TREE PLANTING**

Hopewell Township is actively involved in planting trees. There is a limited tree replacement program for trees removed along the street rights-of-way and there are a number of available tree planting locations scattered throughout the Township.

The goals of the tree-planting program ensure that for every suitable planting location there will be a suitable tree planted. It is also intended to improve species diversity by emphasizing native species. Minimizing the costs for individual tree replacements is an incentive to help achieve these goals.

- i. Objective 1: Trees meeting the right tree for the right location criteria will be selected for planting within the Township. (2010-2015)
- ii. Objective 2: Identify and prioritize tree planting sites within the Township. (2010-2011)
  - a) Work with a designated Forester to update the list of preferred planting species (2010).
  - b) Develop a list of preferred planting locations. (2011)
- iii. Objective 3: Train Township staff on proper tree planting/removal/field pruning. (2010)
- iv. Objective 4: Initiate Arbor Day tree planting. (2010-2015)

- a) Plant trees as part of planned Arbor Day activities. Coordinate with the Regional Board of Education.
- b) Use this event to connect with area non-profits and distribute proper tree care maintenance information.
- c) Educate residents of the benefits that trees provide. (2012)
- v. Objective 5: Restore the roadside American Elm plantings along Pennington-Washington Crossing Road where and when needed. Encourage the planting of disease resistant American Elms throughout the Township.
  - a) Work to replace elms of historic value in previously planted locations. Write a Community Stewardship Incentive Plan grant. (2010)
  - b) Develop a brochure regarding historic elms in Hopewell Township. (2010)

### **TREE HAZARD AND LIABILITY STATEMENT**

Hopewell Township will initiate corrective action when necessary through the Publics Works Department prior to structural tree failure and other hazardous tree related conditions. Contracted professionals shall be used as required.



Titusville is an older section of Hopewell Township that has trees located within the Municipal ROW

#### **ORDINANCES**

Forestry management in Hopewell Township shall be governed by updated ordinances which shall be adopted in 2010.

#### **PRESENT POLICIES**

Hopewell Township does not presently have written policies on forestry management. Until such time as formal policies and ordinances are adopted by the Township Committee, the Township shall be guided by the procedures as described in the following sections:

### **Tree Service Requests**

- 1) Any calls regarding trees shall be screened by the Public Works Director or Supervisor in charge.
- 2) Tasks shall be assigned on a priority basis with safety being a primary concern.
- 3) Emergencies services shall be as need dictates.

## **COMMUNITY OVERVIEW**

Hopewell Township is located north of Trenton in Mercer County along the Delaware River. In 2005 the population of this 60.40 square mile municipality was 17,742. Hopewell Township is Mercer County's largest municipality in land area.

Tree resources in Hopewell Township include standard native and other street trees such as Red, and Sugar Maple, Pin Oak, London Plane, Honeylocust, Little-leaf Linden and Green Ash. Trees that impact Township street rights-of-way include Sweet and Black Gum, Red, Black, and White Oaks, Red Maple and other hardwoods. There is evidence of Dutch Elm disease along the Pennington-Washington Crossing Elms, and bacterial leaf scorch among some older planted oaks.

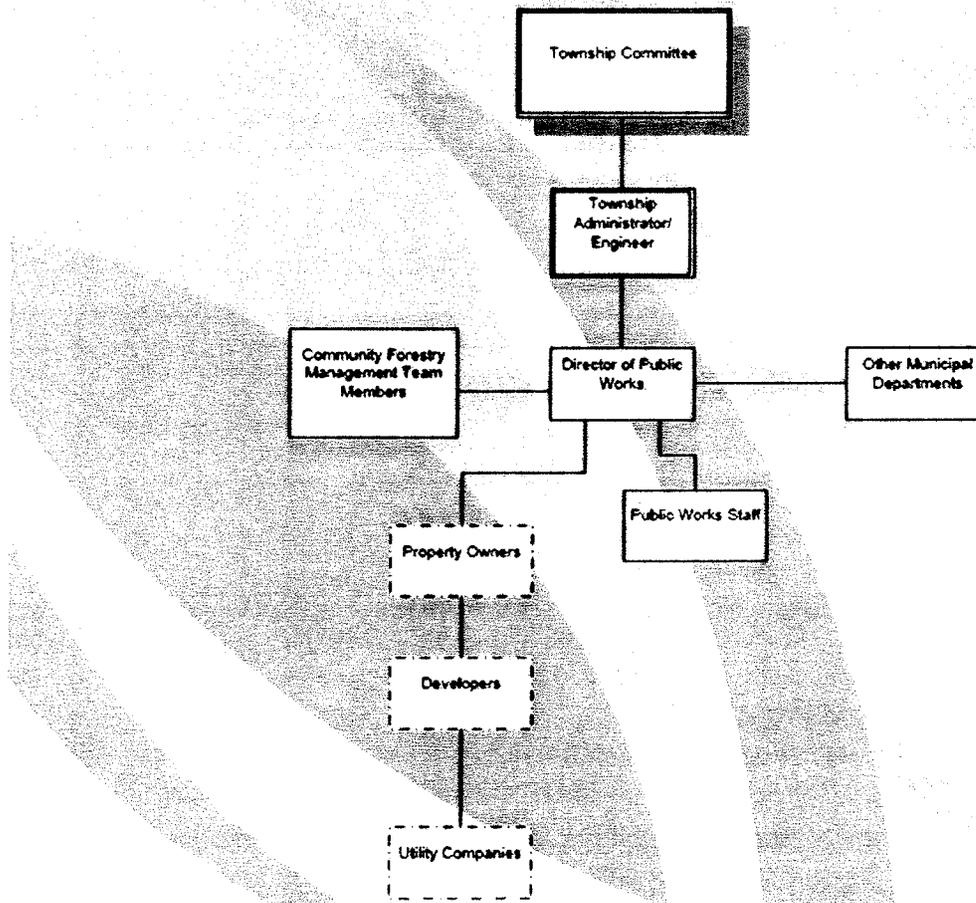
This Community Forestry Management Plan compliments Hopewell Township's Open Space Plan objectives by:

- Assisting with the balance of land uses by reinforcing planning efforts of Local, County and State master plans.
- Maintaining ecologically strong communities for the people of Hopewell Township by encouraging and promoting participation and support from the community, nonprofit conservation organizations, local businesses, and citizens.
- Maintaining and protecting the natural environment.
- Minimizing the impacts of development to the natural environment by using sustainable practices.
- Providing the framework for development standards that will respect environmentally sensitive areas, scenic vistas and plant and animal habitats.

## COMMUNITY FORESTRY PROGRAM ADMINISTRATION

The administration of Hopewell Township's Community Forestry Management Program is a cooperative effort of the Township Administrator/Engineer, and the Public Works Department as shown below:

## FORESTRY MANAGEMENT PLAN ADMINISTRATION



- 1) Township Committee
  - a) The Township Committee annually appropriates budgets, as it deems necessary, to execute the Forestry Management Program.
  - b) Adopts new or revised regulations.
- 2) Township Administrator/Engineer
  - a) Coordinates Other Departments, Public Works and Management Team.

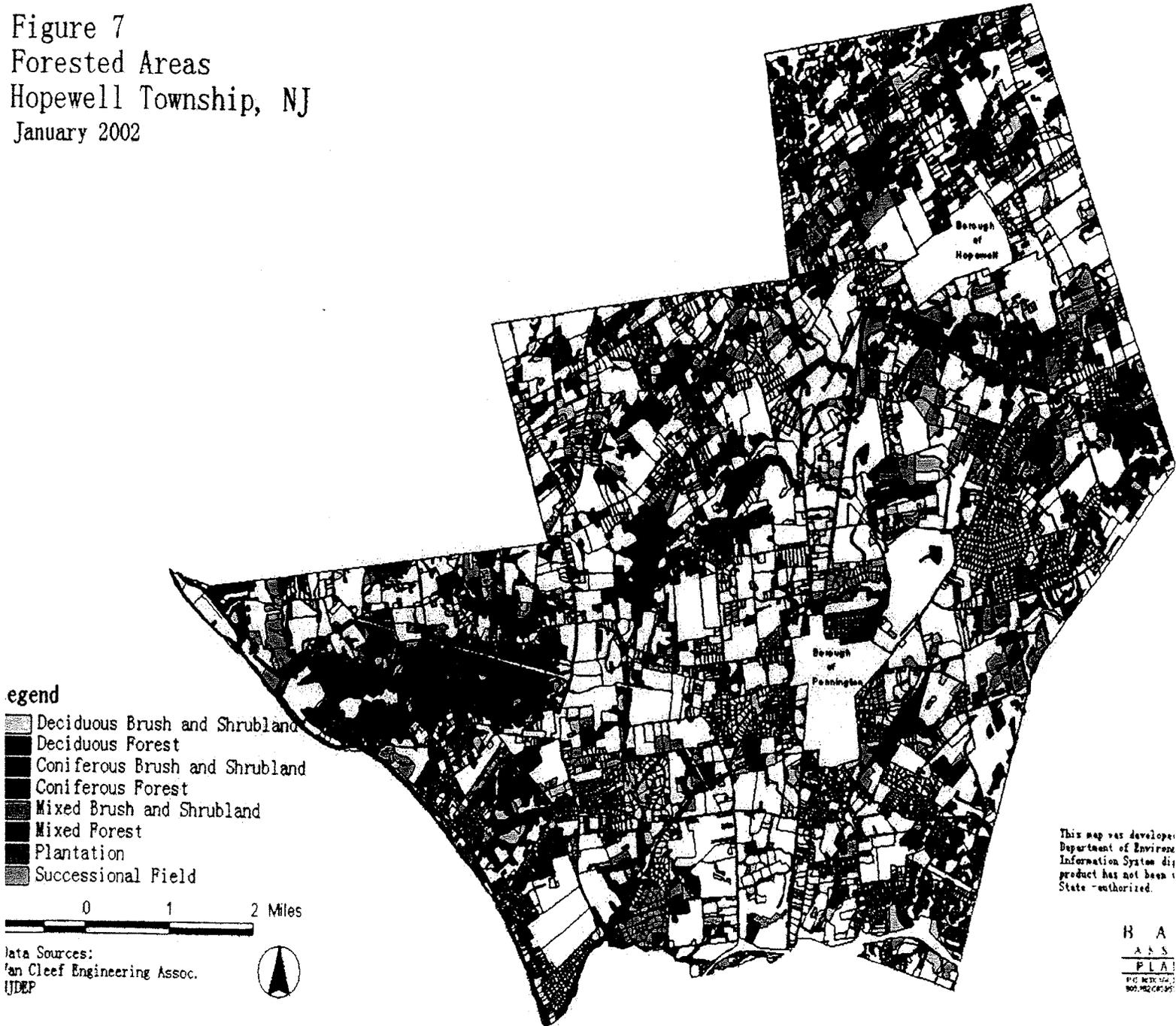
- b) Oversees and Manages' all liaison relationships.
  - c) Coordinates new legislation with Township Committee.
- 3) Community Forestry Management Team
- a) The Environmental Commission shall assist the Team in reviewing existing regulations, develop new regulations, assist in planning for the planting and care of shade trees, ornamental trees and shrubbery located in any public park or parkway except those excluded due to higher public ownership.
  - b) Assist in developing long and short-term goals of the forestry management program.
  - c) Act as Community tree advocates for state/federal support.
  - d) Coordinate the preparation of the annual accomplishment report for review and approval of the Township Committee and the Community Forestry Council.
  - e) Submit grants to promote the goals and objectives contained in this plan.
- 4) Other Township Departments
- a) Assist as may be appropriate in the forestry management program to the extent that such assistance results in the implementation of Township policies, procedures and ordinances that may relate to public or private trees.
- 5) Public Works
- a) Prioritize work.
  - b) Plan and execute all tree pruning and removal work.
  - c) Insure all tree maintenance abides by all applicable Township ordinances. Tree maintenance shall follow all current and accepted arboricultural standards and practices.
- 6) Property Owners
- a) Shall be encouraged to be involved in the forestry management program.
  - b) Are responsible for maintenance of street trees planted on private property.
  - c) Are required to abide by the Township ordinances relating to the preservation and protection of trees.
  - d) Are required to water newly installed trees planted on their properties.
  - e) Shall be encouraged to properly care for trees on private property.

**7) Utility Companies**

- a) Shall abide by all applicable Township ordinances.
- b) Shall exercise reasonable diligence during the installation and maintenance of its facilities so as to avoid damage to trees.
- c) Shall follow all current and accepted arboricultural standards and practices.

COMMUNITY MAP (see also Appendix C)

Figure 7  
Forested Areas  
Hopewell Township, NJ  
January 2002



**TRAINING PLAN**  
**AND PROFESSIONAL DEVELOPMENT**

Creating a properly trained team to meet the requirements of the Community Forestry Program is a long term goal. The Township has identified that on-going or additional training is needed for tree hazard reduction, planting site analysis and updated preferred tree planting list and proper tree maintenance/ pruning procedures for homeowners.

Team members should be trained with sufficient knowledge in order to make technically sound resource decisions. Team members should stay involved and knowledgeable about standards and programs that will benefit the community forest. Training protocols will assist team members in satisfying Commission CORE training requirements, thereby satisfying the requirements of the NJ Shade Tree and Community Forestry Assistance Act, making the Township eligible for Community Stewardship Incentive Program funding and immunity from liability under the Tort Claims provisions of the Act. The Township has met the criteria for CORE training by having an Environmental Commission member and a public works staff member attend the Shade Tree Federation Meeting in 2009.

The Township's budget will provide for continuing education for designated team members (Environmental Commission and a Public Works representative.) The Township will utilize educational opportunities available through the Community Forestry Council, NJ Shade Tree Federation, Rutgers University, Mercer County Soil Conservation District, and others that are deemed appropriate to create continuing education (CEU) opportunities.

Training Objectives (pursuant to available funding) are:

- i. Train 2 or more designees on CORE issues including Tree Hazard evaluation. (2010)
- ii. Provide for 2 more designees to meet criteria for Continuing Education Units (CEU's) (2011)
- iii. Have 2 more designees obtain training on tree maintenance/pruning techniques. (2010)

## PUBLIC EDUCATION, AWARENESS AND OUTREACH

Hopewell Township has actively attempted to stimulate public interest in tree activities via press releases with pictures and descriptions of the events.

Our goal is to implement a public education awareness program in order to encourage public participation in protecting public trees and encourage proper tree care on private property to benefit the entire community.

Public awareness objectives for 2010-2015 include:

- i. Begin the process to achieve Tree City USA status. (2010)
- ii. Create an Arbor Day program with tree planting for the Hopewell Valley's four Elementary Schools (2010)
- iii. Manage a "Big Tree Hunt" and School Art Project during Hopewell Valley's Come Out and Play Day.
- iv. Achieve Tree City USA status. (2011)
- v. Adopt ordinances to assist community in its endeavor to protect trees and woodlands. (2010)
- vi. Educate local woodland owners on sustainable forestry management, proper pruning and tree care. (2010)
  - a) Provide literature on sustainability, the importance of local firewood sources, and proper tree care to woodland owners including those with existing woodland management plans.
  - b) Encourage and promote local sources of sustainably harvested wood or manufactured wood products.

**TOWNSHIP SHADE TREE BUDGET 2008**

<b>COST DESCRIPTION</b>	<b>BUDGETED AMOUNT</b>	<b>NOTES</b>	<b>TOTAL</b>
Tree trimming-Labor	\$34,156.94		\$34,157
Tree trimming-Equipment	\$20,036.00		\$20,036
Leaf and Brush Pick-up-Labor	\$174,850.56	Brush pick-up costs incurred over 72 day time period	\$174,850
Leaf and Brush Pick-up-Equipment	\$157,824	Brush pick-up costs incurred over 72 day time period	\$157,824
Disposal fees	\$7200	72 day total	\$7200
		<b>Total</b>	<b>\$394,068</b>

# STATEMENT OF PLAN IMPLEMENTATION

## 1. TREE INVENTORY AND ASSESSMENT



Trees in Hopewell Township are planted behind the sidewalk and on private property. The maintenance of these trees is the responsibility of the homeowner.

An inventory of trees managed by the Township is an ideal way to plan for long term management. The majority of existing street trees in the Township has been planted outside the Township right of way and is the responsibility of the individual homeowners. Therefore, there is no present need for a street tree inventory.

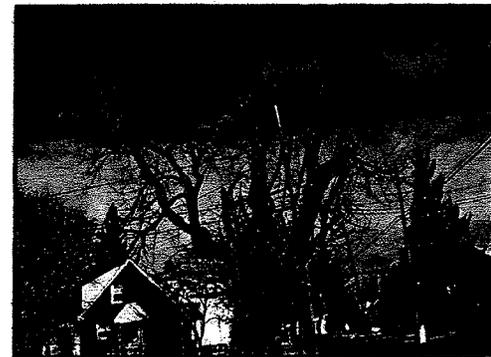
Tree inventory and assessment objectives include:

- i. Train responsible team members on "i-Tree" to further advance their abilities to record tree activities in regard to trees in the inventory. (2012)
- ii. Analyze the records work history etc. at the end of the current 5-year management period, (2015)
- iii. Use the results to adjust pruning cycles and better target management techniques to reduce future hazards. (2010-2015)

## 2. HAZARD TREE IDENTIFICATION

The Hopewell Township Department of Public Works (DPW) is actively engaged in reducing the number of hazardous trees that are within their ROW along Township roads and within Township property. The DPW staff is constantly driving along Township Roads, noting potential hazard trees; marking and scheduling them for removal.

The goals of the hazard tree management program are to ensure public safety, using GPS technology to track, identify and log hazardous trees and their removal and to establish a Tree



The Titusville section of Hopewell Township has large mature and trees within the ROW that may require some maintenance and eventual replacement.

Care Disaster Plan in combination with private contractors and the County of Mercer to assist with storm damage.

### **3. Tree Planting**

Hopewell Township is actively involved in planting trees. There is a small tree replacement program for trees removed along the ROW and there are currently a number of tree planting locations scattered throughout the Township.

The goals of the tree-planting program are as follows:

- Achieve the goal of ensuring that for every suitable planting location there will be a suitable tree planted.
- Improve species diversity by emphasizing native species.
- Minimize the cost to Hopewell Township for individual tree replacements.

The existing programs, policies and procedures are as follows:

- Planting sites are identified by the Department of Public Works (DPW).
- The DPW selects species for all new plantings along Township Roads pursuant to the preferred species planting list.
- Existing soil and growing conditions are inspected prior to species selection.
- Personnel within the DPW accomplish tree plantings.

### **4. TREE MAINTENANCE AND CARE**

Hopewell Township recognizes the advantage of a systematic, proactive tree maintenance program. It has been well documented that systematic tree maintenance reduces future maintenance needs, reduces future hazards, improves the trees' condition and appearance, and can extend the tree's lifespan. The systematic process begins before the trees are planted.

By developing a "Right tree for the right location" program many of the common tree conflicts may be reduced or eliminated, thereby reducing future maintenance costs and burdens. Early pruning cycles when implemented can reduce hazard conditions and costly mature tree pruning. Continued maintenance as the trees mature will extend their service life, increase their benefits in relation to costs, and reduce hazard potential. Hopewell Township

will institute an early growth cycle pruning program on trees planted on municipal lands to reduce future and more costly pruning work

The objectives of the tree maintenance program are to:

- i. Improve the long-term health of the Township's tree resource by timely identification of any disease or insect infestation and training township staff regarding proper pruning practices. (2010-2015)
- ii. Maintain public safety. (2010)
- iii. Maximize the benefits of urban trees while minimizing the costs to maintain safe and healthy trees. (2010-2015)
- iv. Improve the efficiency of tree maintenance activities by prioritizing and implementing an early age pruning cycle. (2010-2015)

## **COMMUNITY STEWARDSHIP INCENTIVE PROGRAM (CSIP)**

The following is a summary of how each of the thirteen Community Stewardship Incentive Program (CSIP) practices is addressed by this Community Forestry Management Plan.

- **CSIP #1: Plan Preparation**  
This practice is addressed on page 4.
- **CSIP #2: Public Education and Awareness**  
This practice is addressed on page 14.
- **CSIP #3: Assessment and Inventory**  
This practice is addressed on page 16.
- **CSIP #4: Tree Planting**  
This practice is addressed on page 17.
- **CSIP #5: Tree Recycling**  
This practice is addressed on page 4.
- **CSIP #6: Tree Care Disaster Plan**  
This practice is addressed on page 17-18.
- **CSIP #7: Training**  
This practice is addressed on page 13.
- **CSIP #8: Arbor Day Activities**  
This practice is addressed on pages 6-7.
- **CSIP #9 Tree Hazard Identification Plan**  
This practice is addressed on pages 16-17.
- **CSIP #10: Tree Maintenance**  
This practice is addressed on pages 17-18.
- **CSIP #11: Ordinance Establishment**  
This practice is addressed on page 7 and Appendix B.
- **CSIP #12: Insect and Disease Management**  
This practice is addressed on pages 17-18.
- **CSIP #13: Other**

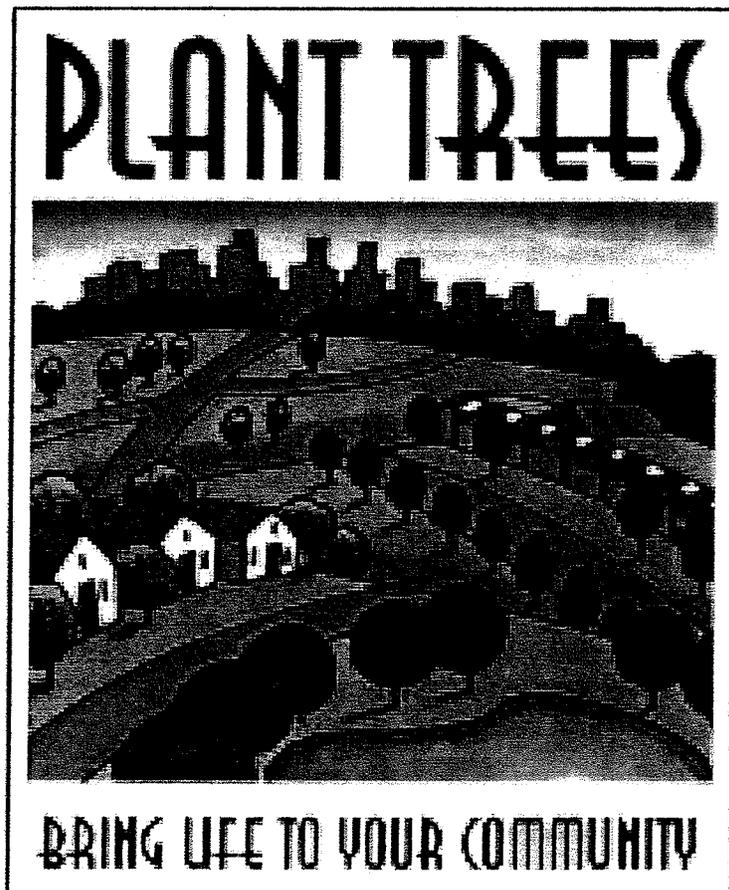
## PLAN AMENDMENTS

This plan is based on objectives, knowledge and conditions that were valid at the time of development. However the Township recognizes those conditions and needs may change over time and those portions of this plan may become outdated. Therefore, this plan may be amended using the following procedures.

- a) Amendments may be requested by any member of the community.
- b) Community Forestry Management Plan amendments shall be coordinated with the Environmental Commission.
- c) If deemed necessary by majority vote, the Environmental Commission shall draft changes for consideration by the Township Committee. Any proposed changes shall be submitted by the Environmental Commission to all advisory boards of Hopewell Township for review and comment prior to submission to the Township Committee for consideration.
- d) The revised Community Forestry Management Plan shall be submitted to the New Jersey Community Forestry Council for approval in accordance with the New Jersey Shade Tree and Community Forestry Assistance Act.

## Appendices

- A. Shade Tree Job Request Form
- B. Shade Tree Ordinance
- C. Map of Hopewell Township



APPENDIX A

SHADE TREE JOB REQUEST

RECEIVED:

DATE; day \_\_\_\_\_ month \_\_\_\_\_ year \_\_\_\_\_  
TIME \_\_\_\_\_ AM \_\_\_\_\_ PM \_\_\_\_\_ BY \_\_\_\_\_

SUBMITTED BY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
TELEPHONE NO \_\_\_\_\_

LOCATION OF WORK (street, house number, etc.) \_\_\_\_\_

DESCRIPTION OF WORK / COMPLAINT \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

JOB REQUEST GIVEN TO \_\_\_\_\_  
DATE \_\_\_\_\_ TIME \_\_\_\_\_

1. ACTION TAKEN BY \_\_\_\_\_  
DATE \_\_\_\_\_ TIME \_\_\_\_\_  
DESCRIPTION OF ACTION \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. ACTION TAKEN BY \_\_\_\_\_  
DATE \_\_\_\_\_ TIME \_\_\_\_\_  
DESCRIPTION OF ACTION \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. ACTION TAKEN BY \_\_\_\_\_  
DATE \_\_\_\_\_ TIME \_\_\_\_\_  
DESCRIPTION OF ACTION \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*(Continue on back, if required)*

## APPENDIX B

### CHAPTER XIV SHADE TREE ADVISORY COMMITTEE REGULATIONS

#### 14-1 SPECIFICATIONS FOR PLANTING TREES IN DEVELOPMENTS AND SUBDIVISIONS.

Shade trees shall be of a type and size and in such location as shall be approved by and be planted under the supervision and direction of the shade tree committee of the township. Such trees shall be located five to ten feet outside the street right-of-way line, but shall not interfere with utilities. (Ord. #7/15/74)

#### 14-2 APPROVED SPECIES AND VARIETIES.

##### 14-2.1 Listing.

The following are approved species and varieties:

Littleleaf Linden, *Tilia cordata*

Greenspire Linden, *Tilia cordata* 'Greenspire'

Red Maple, *Acer rubrum*

Scarlet Oak, *Quercus coccinea*

Pin Oak, *Quercus palustris*

\* Willow Oak, *Quercus phellos*

Red Oak, *Quercus rubra*

Sugar Maple, *Acer saccharum*

Bradford Callery Pear, *Pyrus calleryana* 'Bradford'

Japanese Zelkova, *Zelkova serrata*

Village Green Zelkova, *Zelkova serrata* 'Village Green'

\* Japanese Flowering Cherry, *Prunus serrulata* 'Kwanzan'

Note: (*Tilia cordata* 'Greenspire' - *cordata* is the species name. 'Greenspire' is the variety).

\* Spring Planting Only.

\* Korean Dogwood, *Cornus kousa*

Russian Olive, *Elaeagnus angustifolia*

\* Sweetgum, *Liquidambar styraciflua*

\* Sourgum or Blackgum, *Nyssa sylvatica*

\* Spring Planting Only.

(Ord. #7/15/74)

#### **14-2.2 Percentage of Species to Be Used.**

Not more than 20 percent of any one species shall be planted in any subdivision except that subdivisions requiring less than ten trees shall not be subject to this section of the specifications. (Ord. #7/15/74)

#### **14-3 TREE SIZE.**

- a. Except as noted in paragraph b, trees shall be not less than one and one-half inch caliper measured six inches above ground, nor less than ten feet high.
- b. Where utilized, Bradford Callery Pear, Kwanzan Japanese Flowering Cherry, Chinese Dogwood and Russian Olive shall be not less than one and one-quarter inch caliper measured six inches above ground, nor less than eight feet high.
- c. All trees shall conform to the American Standard for Nursery Stock as published by the American Association of Nurserymen. All trees shall be balled and burlapped, nursery-grown, not "collected stock." Bare root stock may be planted with permission of the shade tree committee.  
(Ord. #7/15/74)

#### **14-4 PLANTING TIME.**

Trees under the jurisdiction of the committee shall not be planted between May 1st and October 15th without specific authorization, in writing, from the committee. (Ord. #7/15/74)

#### **14-5 SOIL EXCAVATIONS.**

The excavation must be not less than 12 inches wider and three inches deeper than necessary to accommodate the ball of the tree. (Ord. #7/15/74)

#### **14-6 PLANTING.**

Trees shall be planted at the same depth as they were in the nursery. Planting soil shall be composed of one part peat moss and three parts topsoil thoroughly mixed. Each tree shall be watered during the day of planting with a minimum of five gallons of water. (Ord. #7/15/74)

#### **14-7 PRUNING.**

Trees shall be pruned after planting, or by the nurseryman at the time of digging, to balance top growth with roots and to preserve their natural character and shape. Pruning shall be restricted in general to the secondary branches and soft and sucker growth. The growing tip or leader is not to be pruned without authorization of the shade tree committee. (Ord. #7/15/74)

#### **14-8 WRAPPING.**

All trees shall be wrapped with six ten-inch wide 8-ounce burlap or kraft tree paper at the time of planting from the ground to the first branches. (Ord. #7/15/74)

#### **14-9 MULCHING.**

All trees shall be mulched within three days of planting with wood chips, licorice root, ground corncobs or other suitable mulch material. (Ord. #7/15/74)

#### **14-10 STAKING AND GUYING.**

- a. Trees shall be staked with at least one red or white cedar stake the same day of planting. Stakes shall be eight feet in height and not less than two inches in smallest diameter. Stakes are to be driven into the ground to a depth of 12 inches below the bottom of the excavation. This should be done before setting the tree or, if after setting, in such a manner as not to injure the roots.
- b. Trees shall be guyed to the stakes at a height of about five feet using No. 10 gauge galvanized steel wire in a piece of rubber hose. The wire shall be fastened to the stake in such a manner that the wire will not slip nor come in contact with the tree trunk. Guys broken (but not deliberately broken through vandalism) within a year of planting shall be replaced.

(Ord. #7/15/74)

#### **14-11 REMOVAL OF ALL PLANTING DEBRIS.**

Removal of debris is required. The property must be left in a neat and orderly condition in accordance with good and accepted planting practices. (Ord. #7/15/74)

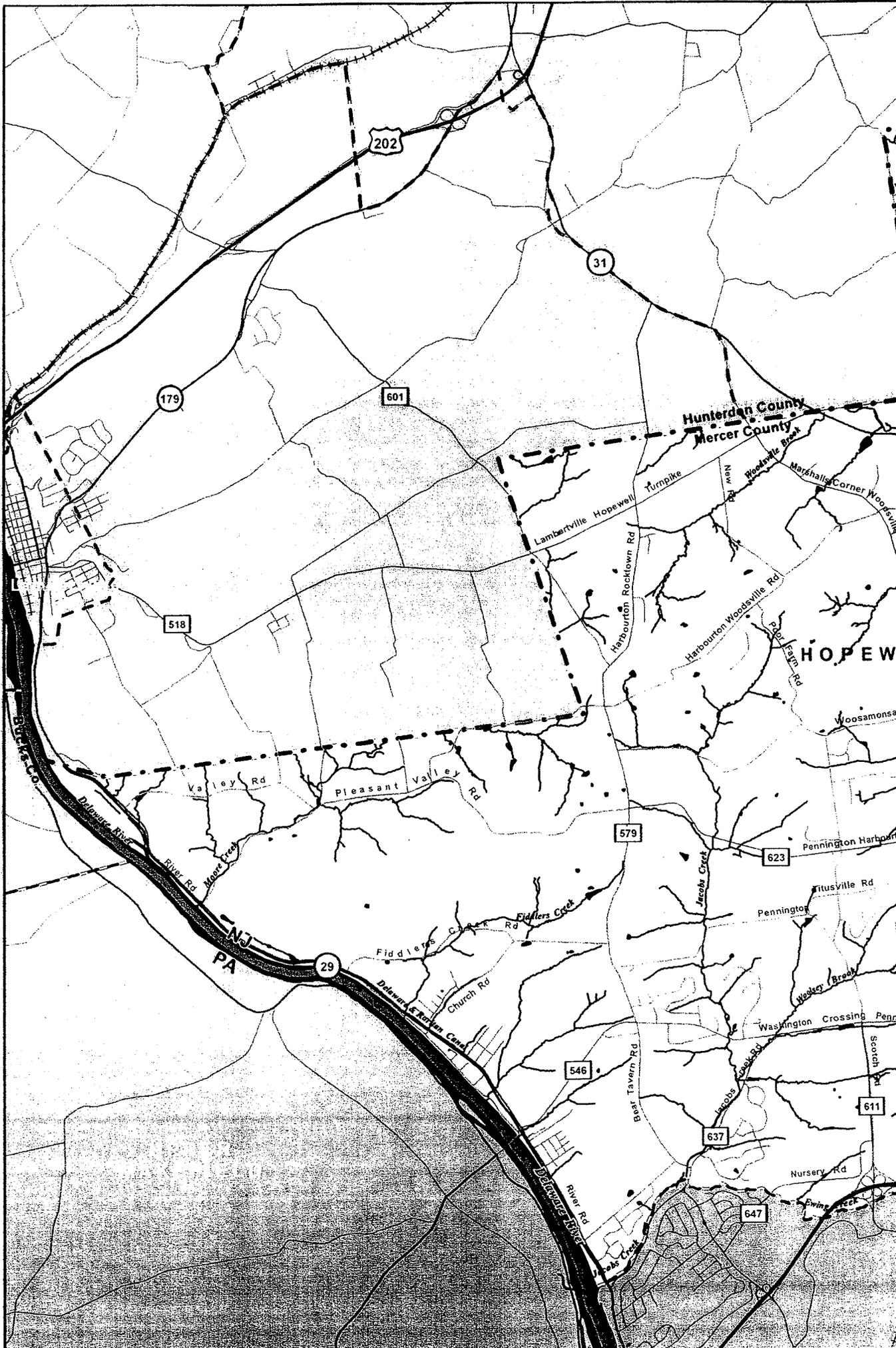
#### **14-12 GUARANTEE.**

- a. Trees shall be guaranteed for one year for fall planted and 13 months for spring planted trees from date of acceptance by the shade tree committee. The trees are to be alive and in a satisfactory growing condition as determined by the shade tree committee at the end of the guarantee period.
- b. Replacement will be made according to these same specifications and during the normal planting period. Replacements shall be subject to the same guarantee and replacement as the original material. The replacements shall be made within 60 days following written demand from the shade tree committee.
- c. In case of any questions regarding the conditions and satisfactory establishment of a rejected plant, the contractor may, if approved by the committee, allow such a plant to remain through another growing season at which time the rejected plant, if found to be dead, or in an unhealthy or badly impaired condition, shall be replaced.
- d. Trees proven to be dead or unhealthy through vandalism or physical damage shall be voided from the contractor's guarantee of replacement.

(Ord. #7/15/74)

#### **14-13 ACCEPTANCE.**

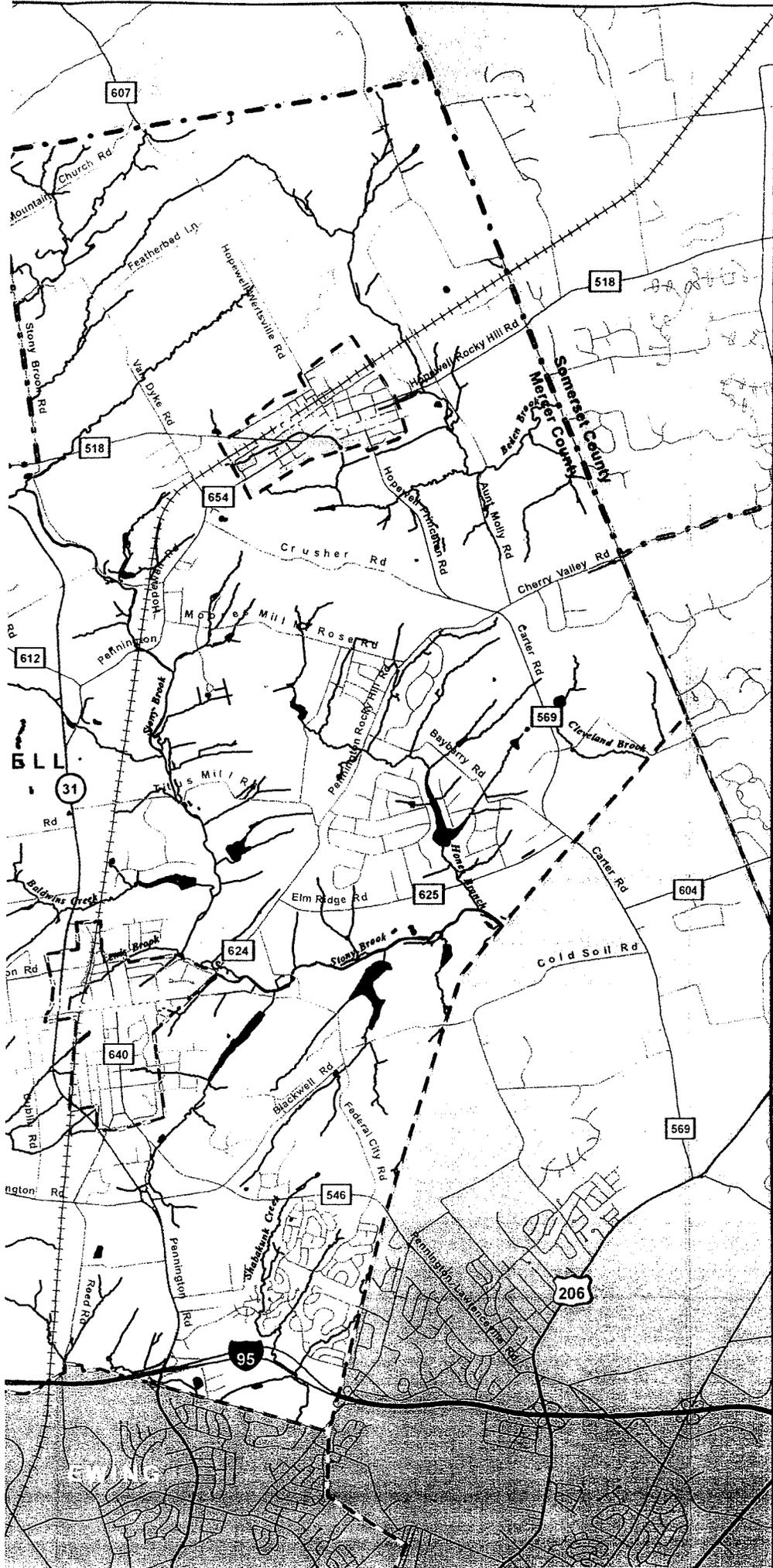
The shade tree committee shall have the right before, during and after planting to reject all or a part of the trees in the development or subdivision, if, in the committee's opinion, it is in the best interest of the township to do so. In the event that the developer or subdivider shall dispute such rejection, the matter shall be referred to the planning board for its action. (Ord. #7/15/74)



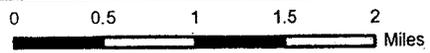
# Hopewell Township

## Map # X

### Hopewell Township Base Map



-  Municipal Boundary
-  County Boundary
-  Stream
-  Lake



DELAWARE VALLEY  
**dvrpc**  
REGIONAL  
PLANNING COMMISSION

Source: NJDEP, NJDOT, DVRPC.  
This map was developed using New Jersey  
Department of Environmental Protection  
Geographic Information System digital data,  
but this secondary product has not been  
verified by NJDEP and is not state-authorized.