

# GREEN RIDGE STATE FOREST

## ANNUAL WORK PLAN

FISCAL YEAR 2011

Prepared:	<u></u>	<u>6/2/10</u>
	(Forest Manager)	Date
Reviewed:	<u></u>	<u>6-4-10</u>
	(Regional Manager)	Date
Reviewed:	<u></u>	<u>7/9/10</u>
	(Land Acquisition & Planning)	Date
Approved:	<u></u>	<u>7.12.10</u>
	(Environmental Specialist)	Date

# GRSF Annual Work Plan Contents

## **A. Forest Overview**

Includes an oversight of the forest; history, size, location, special features, etc.

## **B. AWP summary**

Includes number of sales, total harvest acres, acres by harvest method, estimated harvest volume and other important features for the work to be performed during the next year..

## **C. Maintenance Projects**

Includes boundary maintenance, road maintenance, building maintenance and other such projects.

## **D. Recreation Projects**

Includes projects such as campsite improvements, hunting programs, special recreational activities, ATV and hiking trail maintenance, trail grants, signage, and other projects specific to benefiting recreational users of the forest.

## **E. Special Projects**

Includes activities to gain or maintain third party forest certification, GIS databases, and other such activities.

## **F. Silvicultural Projects**

Includes forest harvesting, prescribed fire programs, reforestation, and other such projects. This section must include the following:

### **Final Silvicultural Activities:**

1. Site Map
2. Silvicultural Prescription
3. Stand Data

### **Review Process:**

1. Review Summary
2. Interdisciplinary Team Comments (collective)
3. Advisory Committee Comments
4. Public Comments

## **G. Watershed Improvement Projects**

Includes special projects to enhance water quality, wetland restoration, and other such activities.

## **H. Ecosystem Restoration Projects**

Includes projects to manage exotic invasive species, efforts to restore shale barrens or other natural habitats, and other activities aimed at improving ecosystems.

## **I. Monitoring Projects**

Includes CFI forest inventories, and other inventory projects being conducted on the forest, watershed monitoring, and other similar projects.

## **J. Budget**

Proposed budget specific to the forest.

## **Forest Overview**

Green Ridge State Forest is located in eastern Allegany County. It is the only State Forest located in the Ridge and Valley province. Green Ridge receives the least amount of rainfall in Maryland, averaging 36 inches annually. Consisting of 46,000 acres, Green Ridge is the largest contiguous block of forestland in Maryland within the Chesapeake Bay watershed. It accounts for about 30% of the State Forest System and approximately 12% of all DNR land in Maryland.

The general geographic boundaries of Green Ridge are Town Creek to the west and Sideling Hill Creek to the east. The northern boundary extends to the Mason-Dixon Line. The southern boundary parallels the Potomac River.

Elevations range from 500 feet above sea level on the Potomac River to 2,000 feet on Town Hill.

Three Major highways traverse the forest in an east to west direction: Route 144, Maryland Route 51, and Interstate 68.

In the early 1800's, Richard Caton and William Carroll in partnership owned much of the land that is Green Ridge State Forest today. Richard Caton was the son-in-law to Charles Carroll of Carrollton, a signer of the Declaration of Independence. William Carroll was the grandson of Daniel Carroll of Rock Creek, a framer of the United States Constitution. The land was originally patented from vacant lands during the 1820-1840 period for inclusion into various timber and mining interests, primarily the Town Hill Mining, Manufacturing, and Timber Company. This business venture was financed by the estate of Charles Carroll of Carrollton. The crumbling stone structure known as the Carroll Chimney, part of the steam-powered sawmill built in 1836, is the only known surviving structure of that period.

In the 1880-1912 era, most of the remaining virgin forest was cut and a period of neglect resulted in numerous wildfires. During the early 1900's, the Mertens family of Cumberland attempted to convert the forest into apple orchards and promoted it as "The Largest Apple Orchard in the Universe."

The orchard was subdivided into 10-acre parcels and sold to individuals as investment properties. Five acres of each property parcel was cleared, burned, and planted into apple trees. The remaining five acres had the best trees cut and the poorer trees were left standing. The orchard company went into bankruptcy in 1918. The interests of the corporation were acquired by the State Department of Forestry in 1931.

The first forest management activities at Green Ridge were performed by the Civilian Conservation Corps (CCC) in the 1930's. Their main focus was fire control. Other work consisted of building roads, trails, recreation enhancements, and the management of existing forest for its future timber and wildlife potential.

During World War II, the CCC camp at Fifteen Mile Creek housed German prisoners of war who were required to cut pulpwood in the forest. As the forest grew it became popular with outdoor enthusiasts, especially hunters. It also contributed more and more to the local wood products industry.

Today, Green Ridge is a diverse forest consisting primarily of a 110 year old even-aged mixed oak forest, mixed with a wide variety of age classes resulting from various silviculture activities beginning in the late 1960's.

The oak consists of a variety of species, including black oak, white oak, red oak, scarlet oak, and chestnut oak. Five native pines grow at Green Ridge: white pine, Virginia pine, pitch pine, table-mountain pine, and shortleaf pine. Flowering dogwood, redbud, and serviceberry are common understory trees.

Upland animals found in abundant numbers on the forest are white-tailed deer, fox and gray squirrel, raccoons, red fox, and cottontail rabbits. Other animals include muskrat, beaver, mink, chipmunks, mice, flying squirrels, weasels, skunks, opossums, bobcat, and black bear.

Wild turkey, ruffed grouse, and woodcock are popular game birds on Green Ridge. Other birds include the pileated woodpecker, red-tailed hawk, and the barred owl. A wide variety of neo-tropical migrants and songbirds also occur on the forest.

Wildflowers such as mayapple, coltsfoot, spring beauty, trillium, bloodroot, and spiderwort flourish at Green Ridge.

# **Green Ridge State Forest Fiscal Year 2011 AWP Summary**

This work plan includes seven silviculture proposals for a total of 277 managed acres within the 20,000 acre general management zone in which area based sustainable forest management is practiced. Of these managed acres, harvests are proposed. There will be some variation between managed acres and actual harvest acres to provide for various buffers and/or retention areas. Under area based management, the annual target is 200 managed acres. The acreage in proposals exceeds this target. This is because one of the silviculture proposals is an intermediate TSI operations and allows for some reduction as result of the review process.

The silviculture proposals within this plan include 115 acres of variable retention harvests for an estimated 402mbf of hardwood timber. An additional 31 acres are proposed as a pine salvage and is estimated to yield 93mbf of hardwood and hard pine timber. An additional 37 acres is proposed to be thinned to release crop trees and remove undesirables. This thinning will be done to increase stand health and vitality and will yield enough pulpwood to cover costs of the operation.

Other major projects proposed in this AWP and included in the proposal maps are the shallow water impoundment project and the Kasecamp Bottomlands Enhancement Project. The shallow water impoundment project is a proposal that would convert approximately two acres of abandoned crop field into a developed wetland. This impoundment will be designed to facilitate seasonal standing water and be managed to provide seasonal nesting, feeding, and roosting habitat for waterfowl and other indigenous wetland species.

The Kasecamp Bottomlands Enhancement Project will include a partnership with the Wildlife Institute's Woodcock Initiative, MD DNR-Wildlife&Heritage Services, MDE and GRSF to develop a management plan that focuses on restoring American Woodcock Habitat on 400-500 acres of Potomac River flood plain within GRSF's Kasecamp Road area.

In addition to the above projects, maintenance, recreation, ecosystem restoration, watershed improvement, and monitoring projects are included in this plan. Specific projects are described within the following pages of the plan.

## **Maintenance Projects**

General Maintenance will continue such as maintaining 100 primitive campsites, hazardous tree removal, pole gate installations as needed, mowing and maintenance of handicap access hunting areas, and general maintenance of headquarters complex, shooting range, and outbuildings.

1. Recover 3 miles of Boundary Repaint 30 miles of existing state forest boundary.
2. Install 2 vault toilets at Mertens/East Valley Intersection and Bonds Landing to replace porta-pot rentals pending approval of associated Rec. Trail Grant.
3. Upgrade Electric Service in GRSF Wood & Radio shops
4. Continue process to Raze Maple Run Boys Camp.
5. Continue to maintain 100 primitive camp sites.
6. Continue to maintain public shooting range.
7. Continue to maintain viewscales on 5 overlooks.

## 2010 NATIONAL RECREATIONAL TRAILS FUNDING APPLICATION

# \_\_\_\_\_  
(DOT/SHA USE ONLY)

**Project Sponsor (Applicant):** Department of Natural Resources – Green Ridge State Forest

**Name of designated representative:** Mark Beals

**Address:** 28700 Headquarters Drive N.E.  
Flintstone, MD 21530

**Phone:** 301-478-3124

**Fax:** 301-478-2564

**E-mail:** mbeals@dnr.state.md.us

**Project name:** Green Ridge State Forest Vault Toilets Project.

**Project location:** All projects are within the boundaries of Green Ridge State Forest, Allegany County, MD. Please refer to attached map for specific sites.

**Project description:** This funding will be used to purchase two vandalism resistant and low maintenance toilet facilities to be installed along the ORV trail and at Bond's Landing. These structures will eliminate the need for three portable toilet units that are currently on monthly rental and service contracts.

Green Ridge State Forest (GRSF) is the western Maryland recreational playground for people from Baltimore and Washington, D.C., approaching 100,000 visitors annually. Many of these outdoor enthusiasts visit GRSF to enjoy its hiking trails, ATV trails, canoe trips, primitive campsites, mountain bike trails, and overlooks. **All sites are accessible and impacted by motorized vehicles and/or hikers, bikers and boaters.**

This project is considered an upgrade to existing trails because the trails that the vault toilets will serve have been in place for over thirty years. However, public use has increased dramatically in recent years on both of these sites.

The environmental benefits of this project include replacing three portable chemical toilets with permanent non chemical vault toilets and decrease of human waste deposited in the public lands due to lack of suitable sanitation facilities. Furthermore, these vault toilet units are virtually indestructible which promotes environmental sustainability.

Portable Toilets are frequently vandalized. Many of them get tipped over by vandals. This results in both sanitation and environmental hazards and threatens public health. Furthermore, these portable toilets are easily vandalized which deems them unusable and very costly to maintain overtime. Finally, portable toilets are not aesthetically pleasing. This project would be more sustainable and address each of the above issues.

**Project property ownership:** The project portions of both sites are located within the boundaries of Green Ridge State Forest, which is owned by the State of Maryland and managed by the

Department of Natural Resources.

**Project length:** This project will last 10 months and include procurement and installation of two vault toilets to provide restroom facilities for the public at two high use sites at Bond's Landing and the ORV Trail Head.

**Project total cost: \$30,000.00**

**Federal funds requested and specific use:**

<b>Purchase of Vault Toilets and delivery to site.</b>	<b>\$30,000.00</b>
<b>Total</b>	<b>\$30,000.00</b>

**Matching funds to be provided by Sponsor: \$6,000.00**

One DNR funded maintenance chief for planning, procurement, supervision and assistance @20.00/hr for 50 hrs: \$1,000.00

GRSF Staff will prepare sites for delivery, dig pit for vault, backfill and landscape site, provide weekly maintenance & cleaning. Estimated cost \$5000.00

**Total Match: \$6,000.00**

\*\*\*\*\*

**AGENCY USE ONLY**

\*\*\*\*\*

**Date Received:** \_\_\_\_\_ **Review Date:** \_\_\_\_\_

**Project Category:** \_\_\_\_\_ (Education, Diversified, Motorized or Non-Motorized)

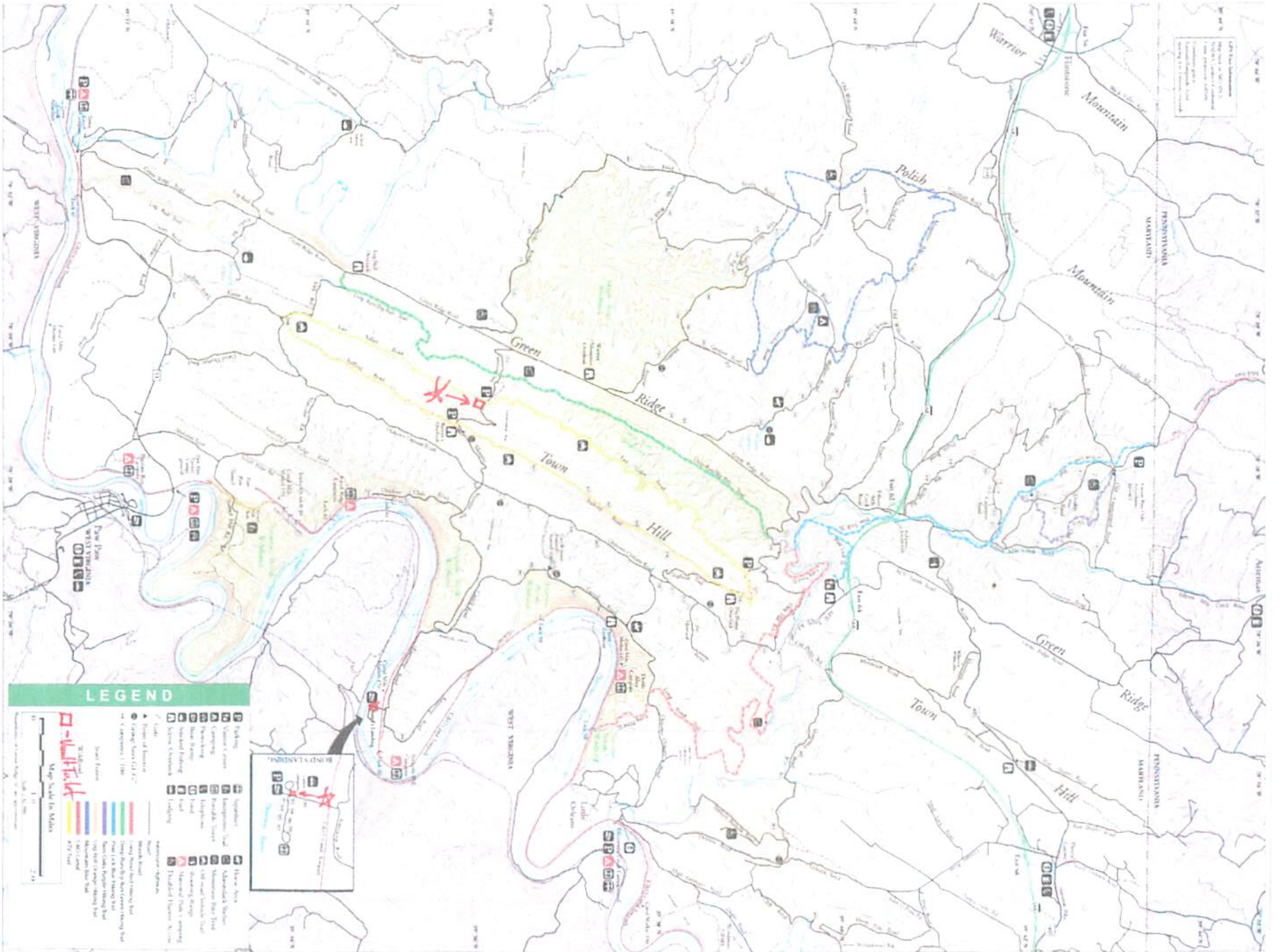
**Recommendation:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Date Applicant Notified of Recommendation:** \_\_\_\_\_

**Environmental Review**

	Y or N	Date Initiated	Date Completed
<b>State Agency/Clearinghouse Review</b>	_____	_____	_____
<b>MDOT Federal</b>	_____	_____	_____
<b>Programmatic categorical exclusion</b>	_____	_____	_____





USGS  
Topographic Map  
Scale: 1:50,000  
Projection: UTM  
Datum: NAD 83  
Units: Meter  
Year: 2001

**LEGEND**

- ▲ Point of Interest
- Camp Site (C.A.S.)
- Camp Site (100)
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## Concrete Buildings

CXT Precast Concrete Products manufactures restroom, shower and concession buildings in multiple designs, textures, and colors. The roof and walls are fabricated with high strength precast concrete to meet all local building codes and textures to match local architectural details. All CXT buildings are designed to meet A.D.A. and to withstand snow, wind and zone-4 seismic loads. All concrete construction also makes the buildings easy to maintain and withstand the rigors of vandalism.

The buildings are prefabricated and delivered complete and ready-to-use, including plumbing and electrical where applicable. With thousands of satisfied customers nationwide, CXT is the leader in prefabricated concrete restrooms.

1. ORDERING ADDRESS(ES): CXT Precast Products, Inc., 3808 N. Sullivan Road, Building 7, Spokane, WA 99216
2. ORDERING PROCEDURES: Fax 509-928-8270
3. PAYMENT ADDRESS(ES): CXT Precast Products, Inc., 3808 N. Sullivan Road, Building 7, Spokane, WA 99216
4. WARRANTY PROVISIONS: CXT warrants that all goods when delivered, conform to specifications set forth in the request provided by the Customer. Goods shall be deemed accepted and meeting specifications unless notice identifying the nature of any non-conformity is provided to CXT in writing within one (1) year of delivery. CXT, as its option, will repair or replace the goods or issue credit for the customer provided CXT is first given the opportunity to inspect such goods. It is specifically understood that CXT's obligation hereunder is for credit, repair or replacement only, F.O.B. CXT's manufacturing plant, Spokane Washington and does not include shipping, handling, installation or other incidental or consequential costs unless otherwise agreed to in writing by CXT.
5. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE): All prices subject to the "Conditions of Sale" listed on the CXT quotation form.

Customers are responsible for marking exact location building is to be set; Providing clear and level site, free of overhead and/or underground obstructions; and Providing site accessible to normal highway trucks and sufficient area for the crane to install and other equipment to perform the contract requirements. Customer shall provide notice in writing of low bridges, roadway width or grade, unimproved roads or any other possible obstacles to access. CXT reserves the right to charge the customer for additional costs incurred for special equipment required to perform delivery and installation. Customers will negotiate installation on a project-by-project basis, which shall be priced as separate line items. For more information regarding installation and truck turning radius guidelines please see our website at [www.cxtinc.com](http://www.cxtinc.com).

In the event delivery of the building/s ordered is/are not completed within 30 days of the agreed to schedule through no fault of CXT, an invoice for the full contract value (excluding shipping and installation costs) will be submitted for payment. Delivery and installation charges will be invoiced at the time of delivery and installation.

Should the delivery and installation costs increase due to changes in the delivery period, this increase in cost will be added to the price originally quoted, and will be subject to the contract payment terms.

In the event that the delivery is delayed more than 90 days after the agreed to schedule and through no fault of CXT, then in addition to the remedies above, a storage fee of 1/2% of contract price per month or part of any month will be charged.

**\*\*Customer is responsible for all local permits and fees**

6. DELIVERY CHARGE: All prices F.O.B. Origin prepaid and added to invoice. CXT operates two (2) manufacturing plants in the United States and will delivery from the closest location on our carriers.

7. PAYMENT TERMS: Payment to CXT by the purchaser shall be made net 30 days after submission of the invoice to the purchaser. Interest at a rate equal to the lower of (i) the highest rate permitted by law; or (ii) 1.5% per month will be charged monthly on all unpaid invoices beginning with the 35th day (includes 5 day grace period) for the date of invoice. Under no circumstance can a retention be taken and purchaser shall pay the full invoiced amount without offset or reduction. These terms are available upon approval of credit. If CXT initiates legal proceeding to collect any unpaid amount, purchaser shall be liable for all of CXT's costs, expenses and attorneys fees associated with such litigation, including the fees and costs of any appeal.

### DELIVERY INFORMATION:

All prices F.O.B. Origin prepaid and added to invoice. CXT operates two (2) manufacturing plants in the United States and will deliver from the closest location on our carriers. Use the following chart to determine the origin:

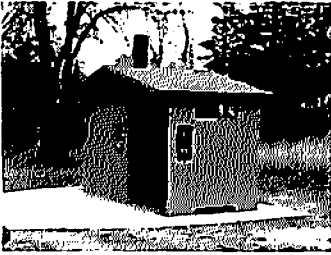
- F.O.B. 3808 N. Sullivan Road, Building 7, Spokane, WA 99216 applies to: AK, CA, HI, ID, MT, ND, NV, OR, SD, UT, WA, WY. Cascadian and Rocky Mountain buildings are FOB Spokane only.
- F.O.B. 901 North Highway 77, Hillsboro, TX 76645 applies to AL, AR, AZ, CO, CT, DE, FL, GA, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NM, NY, OH, OK, PA, PR, RI, SC, TN, TX, VA, VT, WI, WV.

— Prices exclude all Federal/State/Local taxes. Tax will be charged where applicable if customer is unable to provide proof of exemption.

— Pricing is subject to change without notice;

— Engineered stamped drawings may incur additional charges.

For more information visit us at [www.cxtinc.com](http://www.cxtinc.com) or call (800) 696-5766.



Gunnison Single vault. Standard features include ABS lined concrete vault, barnwood textured walls, cedar shake textured roof, offloaded and set up at site.

2009 Base Price	Price per unit	Click to select	
Gunnison	\$ 10,185.00		10,185.00
<b>Added Cost Options:</b>			
Installation	\$ 1,915.00	<input type="checkbox"/>	0.00
Optional wall texture -choose one <input type="checkbox"/> Split Face Block <input type="checkbox"/> Struck Trowel <input type="checkbox"/> Exposed Aggregate	\$ 698.00		0.00
Optional roof texture -choose one <input type="checkbox"/> Delta Rib <input type="checkbox"/> Exposed Aggregate	\$ 698.00		0.00
R-19 Roof Insulation	\$ 376.00	<input type="checkbox"/>	0.00
Room Wastebasket	\$ 49.00	<input type="checkbox"/>	0.00
Hand Sanitizer	\$ 78.00	<input type="checkbox"/>	0.00
Plastic Urinal Qty: 1	\$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal Qty: 1	\$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance	\$ 2,087.00	<input type="checkbox"/>	0.00
Solar Light Kit	\$ 232.55	<input type="checkbox"/>	0.00
Solar Fan Kit	\$ 295.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color	\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color	\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:			\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):			\$ 4,480.00
Total Cost per Unit placed at job site: <i>(excludes all taxes)</i>			\$ 14,665.00

This price quote is good for 60 days from date below, and is accurate and complete.

CXT Sales Representative

Date

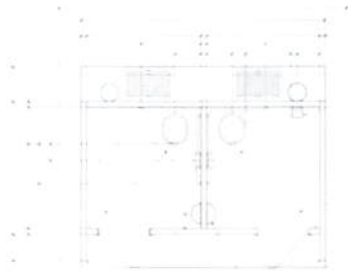
I accept this quote. Please process this order.

Company Name

Customer

Date

# TIOGA SPECIAL



Tioga Special Double vault. Standard features include two ABS lined concrete vaults, barnwood textured walls, cedar shake textured roof, offloaded and set up at site

2009 Base Price		Price per unit	Click to select	
Tioga Special		\$ 19,130.00		19,130.00
<b>Added Cost Options:</b>				
Installation		\$ 3,050.00	<input type="checkbox"/>	0.00
Chase option		\$ 1,350.00	<input type="checkbox"/>	0.00
Optional wall texture <small>-choose one</small> <input type="checkbox"/> Split Face Block <input type="checkbox"/> Struck Trowel <input type="checkbox"/> Exposed Aggregate		\$ 930.00		0.00
Optional roof texture <small>-choose one</small> <input type="checkbox"/> Delta Rib <input type="checkbox"/> Exposed Aggregate		\$ 930.00		0.00
R-19 Roof Insulation		\$ 800.00	<input type="checkbox"/>	0.00
Room Wastebasket		\$ 98.00	<input type="checkbox"/>	0.00
Hand Sanitizer		\$ 156.00	<input type="checkbox"/>	0.00
Plastic Urinal(each)		Qty: \$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal (each)		Qty: \$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance		\$ 3,450.00	<input type="checkbox"/>	0.00
Solar Light Kit		\$ 465.10	<input type="checkbox"/>	0.00
Solar Fan Kit		\$ 590.00	<input type="checkbox"/>	0.00
Conduit Junction Box (chase only)		\$ 190.00	<input type="checkbox"/>	0.00
Electric Light Package (chase only)		\$ 3,290.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color		\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color		\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:				\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):				\$ 9,520.00
<b>Total Cost per Unit placed at job site:</b> <i>(excludes all taxes)</i>				<b>\$ 28,650.00</b>

This price quote is good for 60 days from date below, and is accurate and complete.

CXT Sales Representative

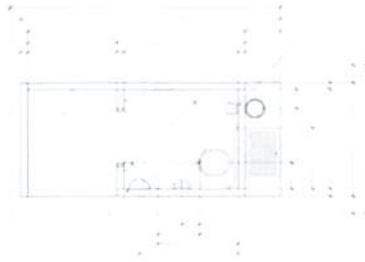
Date

I accept this quote. Please process this order.

Company Name

Customer

Date



Cascadian Single vault. Standard features include ABS lined concrete vault, board and batt upper and lap siding lower textured walls, cedar shake textured roof, offloaded and set up at site.

2009 Base Price		Price per unit	Click to select	
Cascadian		\$ 13,340.00		13,340.00
<b>Added Cost Options:</b>				
Installation		\$ 1,915.00	<input type="checkbox"/>	0.00
Optional roof texture	<input type="checkbox"/> Delta Rib	\$ 698.00		0.00
R-19 Roof Insulation		\$ 471.25	<input type="checkbox"/>	0.00
Room Wastebasket		\$ 49.00	<input type="checkbox"/>	0.00
Hand Sanitizer		\$ 78.00	<input type="checkbox"/>	0.00
Plastic Urinal	Qty: 1	\$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal	Qty: 1	\$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance		\$ 2,215.15	<input type="checkbox"/>	0.00
Solar Light Kit		\$ 232.55	<input type="checkbox"/>	0.00
Solar Fan Kit		\$ 295.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color		\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color		\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:				\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):				\$ 4,480.00
Total Cost per Unit placed at job site: <i>(excludes all taxes)</i>				\$ 17,820.00

This price quote is good for 60 days from date below, and is accurate and complete.

CXT Sales Representative

Date

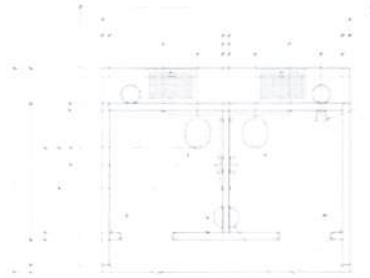
I accept this quote. Please process this order.

Company Name

Customer

Date

# DOUBLE CASCADIAN



Double Cascadian Double vault. Standard features include 2 ABS lined concrete vaults, board and batt upper and lap siding lower textured walls, cedar shake textured roof, offloaded and set up at site.

## 2009 Base Price

	Price per unit	Click to select	
Double Cascadian	\$ 22,300.00		22,300.00
<b>Added Cost Options:</b>			
Installation	\$ 3,050.00	<input type="checkbox"/>	0.00
Chase option	\$ 1,350.00	<input type="checkbox"/>	0.00
Optional roof texture <input type="checkbox"/> Delta Rib	\$ 930.00		0.00
R-19 Roof Insulation	\$ 800.00	<input type="checkbox"/>	0.00
Room Wastebasket	\$ 98.00	<input type="checkbox"/>	0.00
Hand Sanitizer	\$ 156.00	<input type="checkbox"/>	0.00
Plastic Urinal(each) Qty:	\$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal(each) Qty:	\$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance	\$ 3,880.00	<input type="checkbox"/>	0.00
Solar Light Kit	\$ 465.10	<input type="checkbox"/>	0.00
Solar Fan Kit	\$ 590.00	<input type="checkbox"/>	0.00
Conduit Junction Box (chase only)	\$ 190.00	<input type="checkbox"/>	0.00
Electric Light Package (chase only)	\$ 3,290.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color	\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color	\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:			\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):			\$ 11,060.00
Total Cost per Unit placed at job site: <i>(excludes all taxes)</i>			<b>\$ 33,360.00</b>

This price quote is good for 60 days from date below, and is accurate and complete.

CXT Sales Representative

Date

I accept this quote. Please process this order.

Company Name

Customer

Date

# ROCKY MOUNTAIN



Rocky Mountain Single vault. Standard features include ABS lined concrete vault, board and batt upper and rock lower textured walls, cedar shake textured roof, offloaded and set up at site.

2009 Base Price		Price per unit	Click to select	
Rocky Mountain		\$ 15,000.00		15,000.00
<b>Added Cost Options:</b>				
Installation		\$ 1,915.00	<input type="checkbox"/>	0.00
Optional roof texture	<input type="checkbox"/> Delta Rib	\$ 698.00		0.00
R-19 Roof Insulation		\$ 471.25	<input type="checkbox"/>	0.00
Room Wastebasket		\$ 49.00	<input type="checkbox"/>	0.00
Hand Sanitizer		\$ 78.00	<input type="checkbox"/>	0.00
Plastic Urinal	Qty: 1	\$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal	Qty: 1	\$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance		\$ 3,134.35	<input type="checkbox"/>	0.00
Solar Light Kit		\$ 232.55	<input type="checkbox"/>	0.00
Solar Fan Kit		\$ 295.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color		\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color		\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:				\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):				\$ 4,480.00
<b>Total Cost per Unit placed at job site:</b> <i>(excludes all taxes)</i>				<b>\$ 19,480.00</b>

This price quote is good for 60 days from date below, and is accurate and complete.

CXT Sales Representative

Date

I accept this quote. Please process this order.

Company Name

Customer

Date

# DOUBLE ROCKY MOUNTAIN



Double Rocky Mountain Double vault. Standard features include 2 ABS lined concrete vaults, board and batt upper and rock lower textured walls, cedar shake textured roof, offloaded and set up at site.

2009 Base Price		Price per unit	Click to select	
Double Rocky Mountain		\$ 24,610.00		24,610.00
<b>Added Cost Options:</b>				
Installation		\$ 3,050.00	<input type="checkbox"/>	0.00
Chase option		\$ 1,350.00	<input type="checkbox"/>	0.00
Optional roof texture	<input type="checkbox"/> Delta Rib	\$ 930.00		0.00
R-19 Roof Insulation		\$ 800.00	<input type="checkbox"/>	0.00
Room Wastebasket		\$ 98.00	<input type="checkbox"/>	0.00
Hand Sanitizer		\$ 156.00	<input type="checkbox"/>	0.00
Plastic Urinal(each)	Qty:	\$ 120.00	<input type="checkbox"/>	0.00
Stainless Steel Urinal(each)	Qty:	\$ 615.00	<input type="checkbox"/>	0.00
Marine Package for extra corrosion resistance		\$ 5,770.10	<input type="checkbox"/>	0.00
Solar Light Kit		\$ 465.10	<input type="checkbox"/>	0.00
Solar Fan Kit		\$ 590.00	<input type="checkbox"/>	0.00
Conduit Junction Box (chase only)		\$ 190.00	<input type="checkbox"/>	0.00
Electric Light Package (chase only)		\$ 3,290.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Single Color		\$ 32.00	<input type="checkbox"/>	0.00
Paint Touch up Kit - Two Tone Color		\$ 39.00	<input type="checkbox"/>	0.00
Total Cost of selected Accessories from Accessories price list:				\$ 0.00
Estimated One-Way Transportation Costs to site (Quote):				\$ 11,060.00
Total Cost per Unit placed at job site: <i>(excludes all taxes)</i>				<b>\$ 35,670.00</b>

This price quote is good for 60 days from date below, and is accurate and complete.

**Gregg  
Zentarsky**

Digitally signed by Gregg Zentarsky  
DN: cn=Gregg Zentarsky, o=CXT Inc.,  
email=g.zentarsky@cxtinc.com,  
c=US  
Date: 2009.03.02 14:08:38 -0500

CXT Sales Representative

Date

I accept this quote. Please process this order.

Company Name

Customer

Date

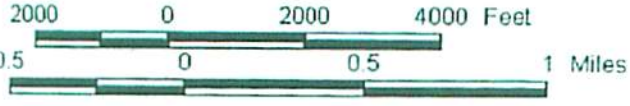
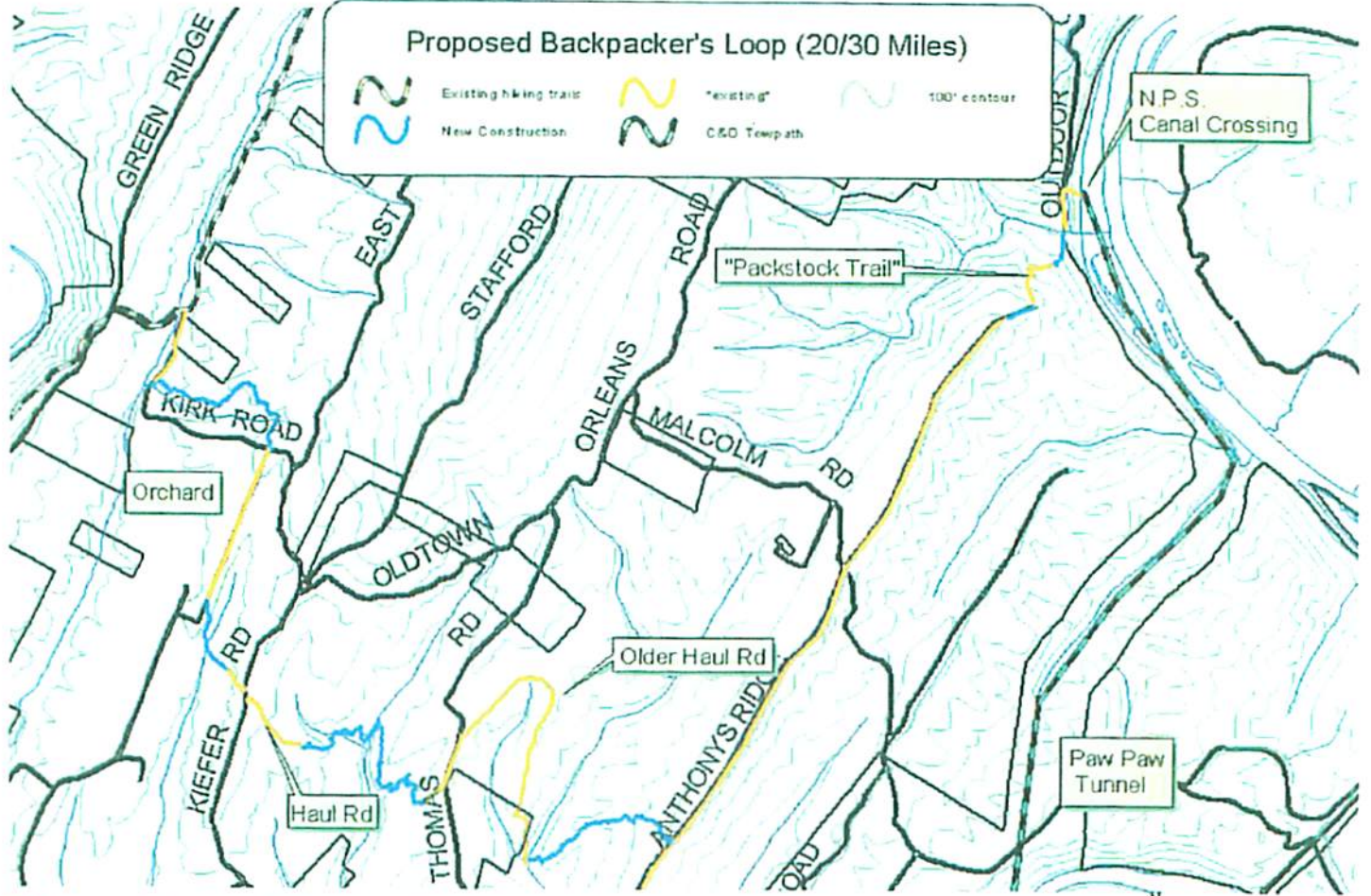


## **Recreation Projects**

- 1. Develop Self Guided interpretive trail within the Kirk Orchard Early Successional Habitat Area to demonstrate habitat management practices.**
- 2. The Great Eastern Trail will be installed, marked, and open for foot traffic.**
- 3. Maintain approximately 60 miles of trails including 30 miles of hiking trails, 12 miles of mountain bike trail, and 18 mile ORV trail.**
- 4. Continue to enhance upland game hunting opportunities by enhancing early successional wildlife habitat at Kirk Orchard, Bull Ring Ranch, Malcolm Road, and Kasecamp Road.**
- 5. Provide 2-4 guided interpretive tours on the forest to share management principles and practices with the public.**
- 6. Work with Fresh Water Fisheries Dept. to improve stocking and fishing access to Town Creek.**

### Proposed Backpacker's Loop (20/30 Miles)

-  Existing hiking trail
-  "existing" C&D Towpath
-  100' contour
-  New Construction



## **SPECIAL PROJECTS**

1. Continue to apply herbicides to control Tree of Heaven and other invasive species.
2. Convert field areas from fescue to better forage covers.
3. Identify, release, fertilize, and prune fruit trees within the forest to enhance wildlife habitat and maintain remnant of apple heritage at GRSF.
4. Utilize Garrett College Students to accomplish forest management and habitat work as laboratory exercises.
5. Continue Involvement with Friends of Green Ridge Group.
6. Continue to develop relationship with Allegany County Board of Ed. to coordinate service learning projects that include tree planting and habitat work on the forest.
7. Resolve encroachment issues.

### **Network with Maryland DNR agencies:**

1. Town Creek Watershed Project (Forest Service)
2. Information and Education Programs including Arbor Day, Project Learning Tree, Becoming an Outdoors Woman, Natural Resources Awareness Camp Hickory, etc...
3. Cooperate with DNR-Fresh Water Fisheries to maintain & improve angling opportunities and access.
4. Collaborate with DNR-Wildlife Division to develop upland habitat sites ie. Field mowing rotations, brush pile management, and field plantings.
5. Work with Heritage biologists to identify, map, and develop management descriptions for Ecologically Sensitive Areas (ESAs), and High Conservation Value Forest (HCVF)

### **Network with Universities, Colleges, and Conservation Organizations:**

1. Maintain working relationship with Garrett College – Forestry classes use forest as training laboratory and implement practices directed by Forest Manager.
2. Continue participation with Appalachian Forest Heritage Area (AFHA) Forest Manager serves as Executive Board member.
3. Continue partnership with the Ridge and Valley Stream Keepers (RVSK). GRSF provides meeting room and shares information in return RVSK monitor water quality in the streams within GRSF.
4. Cooperate with American Chestnut Foundation. GRSF staff continue to maintain 50-tree American Chestnut plantation at Kirk Orchard.
5. Continue partnership with Wildlife Institute to work on Appalachian Mountain Woodcock Initiative to enhance American Woodcock habitat on the forest.

### **Special Outreach:**

1. Finding representatives of indigenous people that may have traditionally been on the forest for consultation of traditional uses on the forest.

# Green Ridge State Forest

## Fiscal Year 2011

### Silviculture Projects

<u>Proposal Name</u>	<u>Compartment</u>	<u>Managed Ac.</u>	<u>Harvest Ac.</u>	<u>Est (mbf)</u>	<u>Prescription</u>
1 Manifold Rd.	38	58	23	80	VR
2 Gorman Rd.	70	35	27	95	VR
3 Green Ridge Rd.	30	23	23	69	PS
4 Sugar Bottom Rd.	10	10	8	24	PS
5 Green Ridge Rd.	37	43	29	101	VR
6 Howard Rd.	49	43	37	NA	TSI
7 Oldtown Orleans Rd.	52	65	36	126	VR

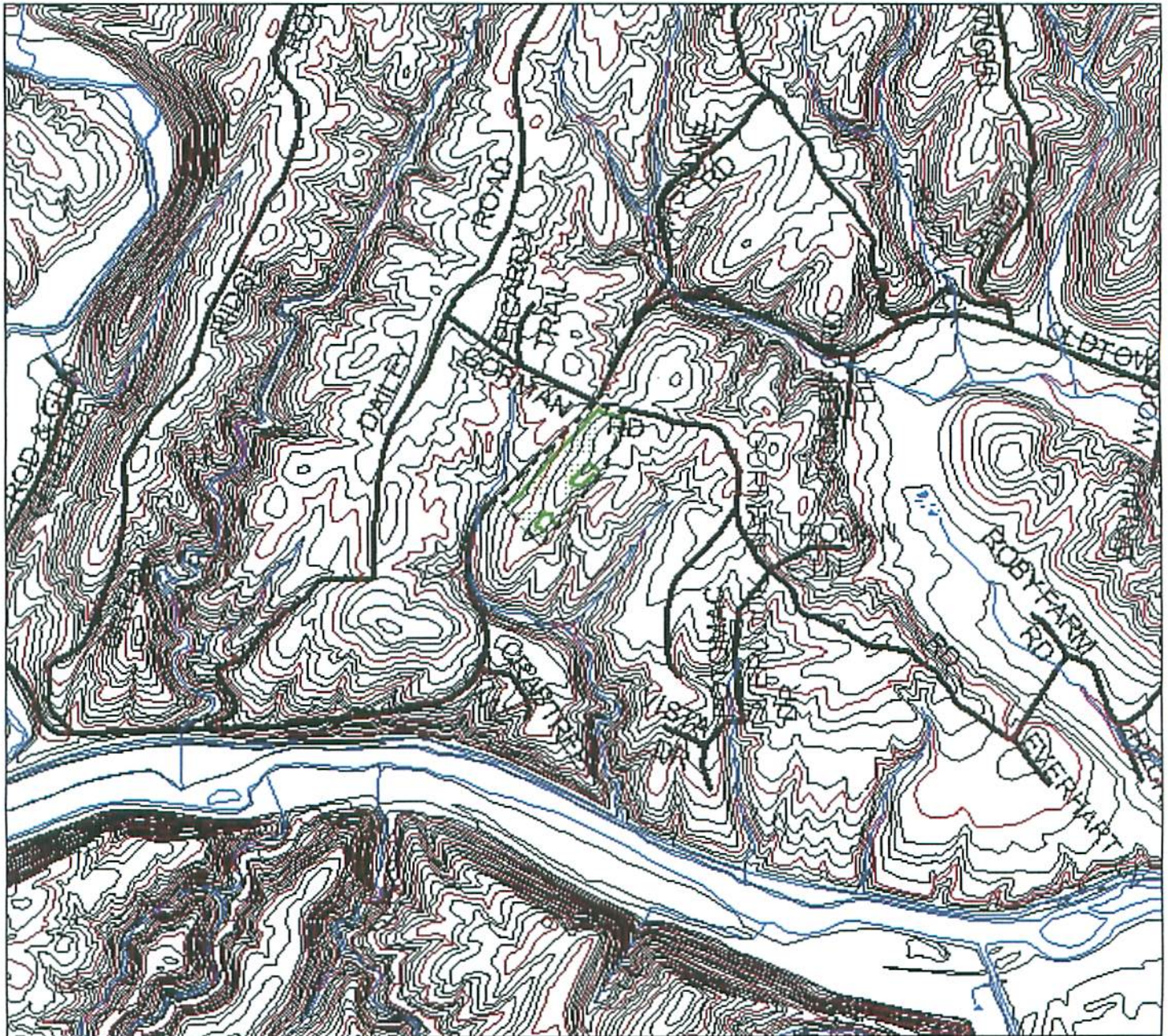
\*Total                                      277                                      183                                      495mbf

**Abbreviations for prescriptions:**

PS    Pine Salvage  
TSI    Timber Stand Improvement  
VR    Variable Retention

**Note:** Managed acres exceeds 200 acres to allow for some reduction and includes intermediate operations. End of rotation harvest acres included in the above proposals totals 146 acres.

# FY-2011 Proposed Harvest Gorman Road



Compartment - 70  
 Managed Area - 35 Acres  
 Harvest Area - 27 Acres  
 Age - 90 years  
 Type - Mixed Oak  
 TPA - 256  
 AGS - 55 sq. ft.  
 Stocking - 105%  
 Growth Rate - <2%  
 Soil Type - Calvin  
 Site Index - 67  
 VMS - Moderate  
 ROS - Roaded Natural  
 Composition - WO-36%,  
 SO-28%



### Silvicultural Prescription:

Variable Retention - Retain 10% of the original stand in patches and retain legacy trees. Regenerate the remainder of the stand. Oak regeneration is adequate. All hickory, serviceberry, flowering dogwood, and white pine will be retained. Patch of invasive *Ailanthus* located within the stand will be chemically treated one year prior to harvest.

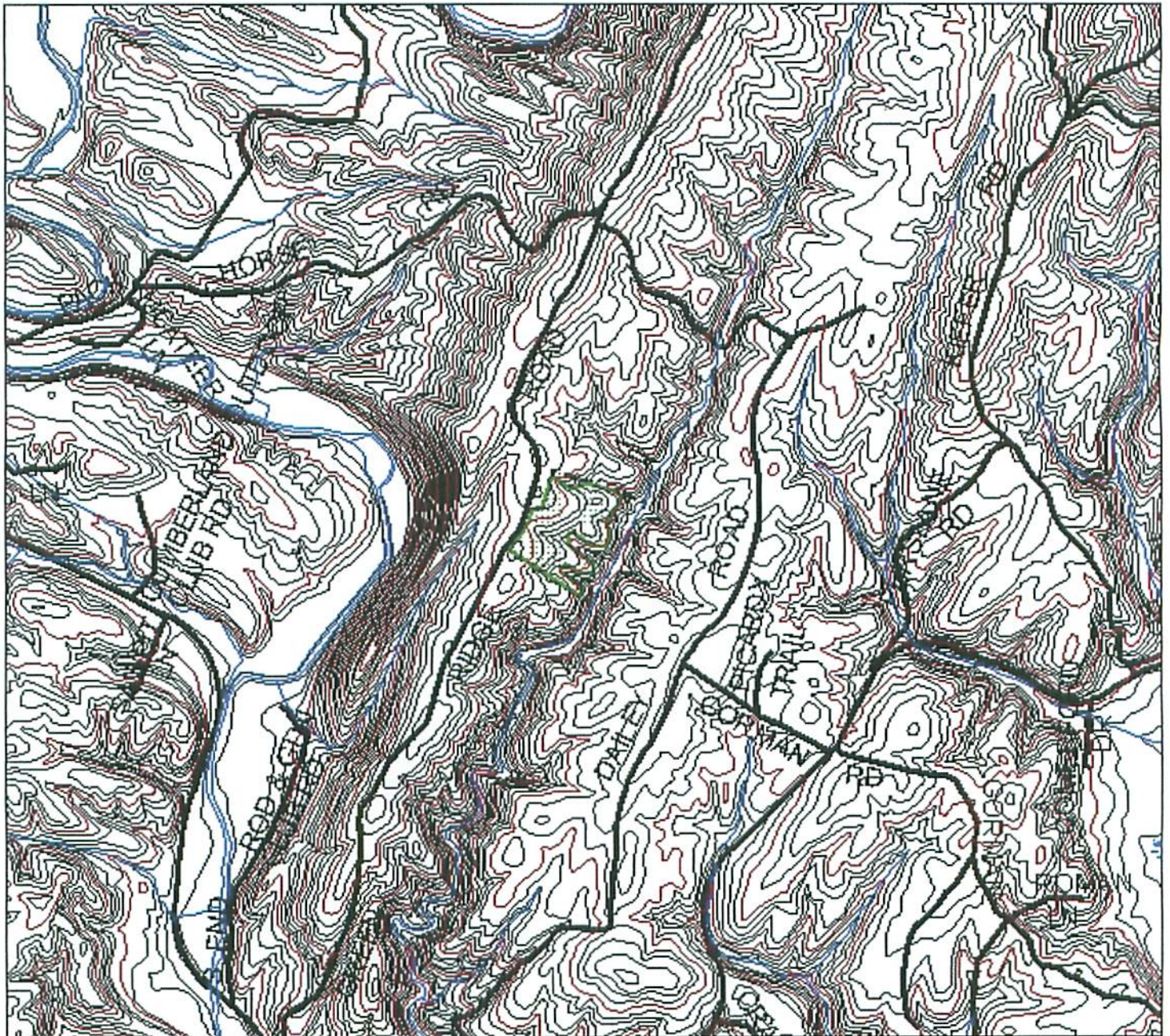
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### Legend

-  Managed Area
-  Harvest Area

# FY-2011 Proposed Harvest Green Ridge Road





Compartment - 37  
 Managed Area - 43 Acres  
 Harvest Area - 29 Acres  
 Age - 95 years  
 Type - Mixed Oak  
 TPA - 198  
 AGS - 51 sq. ft.  
 Stocking - 108%  
 Growth Rate - <2%  
 Soil Type - Calvin  
 Site Index - 54  
 VMS - Moderate  
 ROS - Roded Natural  
 Composition - CO-25%  
 WO-24%, SO-20%

### Silvicultural Prescription:

Variable Retention - Retain 10% of the original stand in patches and retain legacy trees. Regenerate the remainder of the stand. Oak regeneration is adequate. All hickory, white pine, flowering dogwood, and serviceberry will be retained.



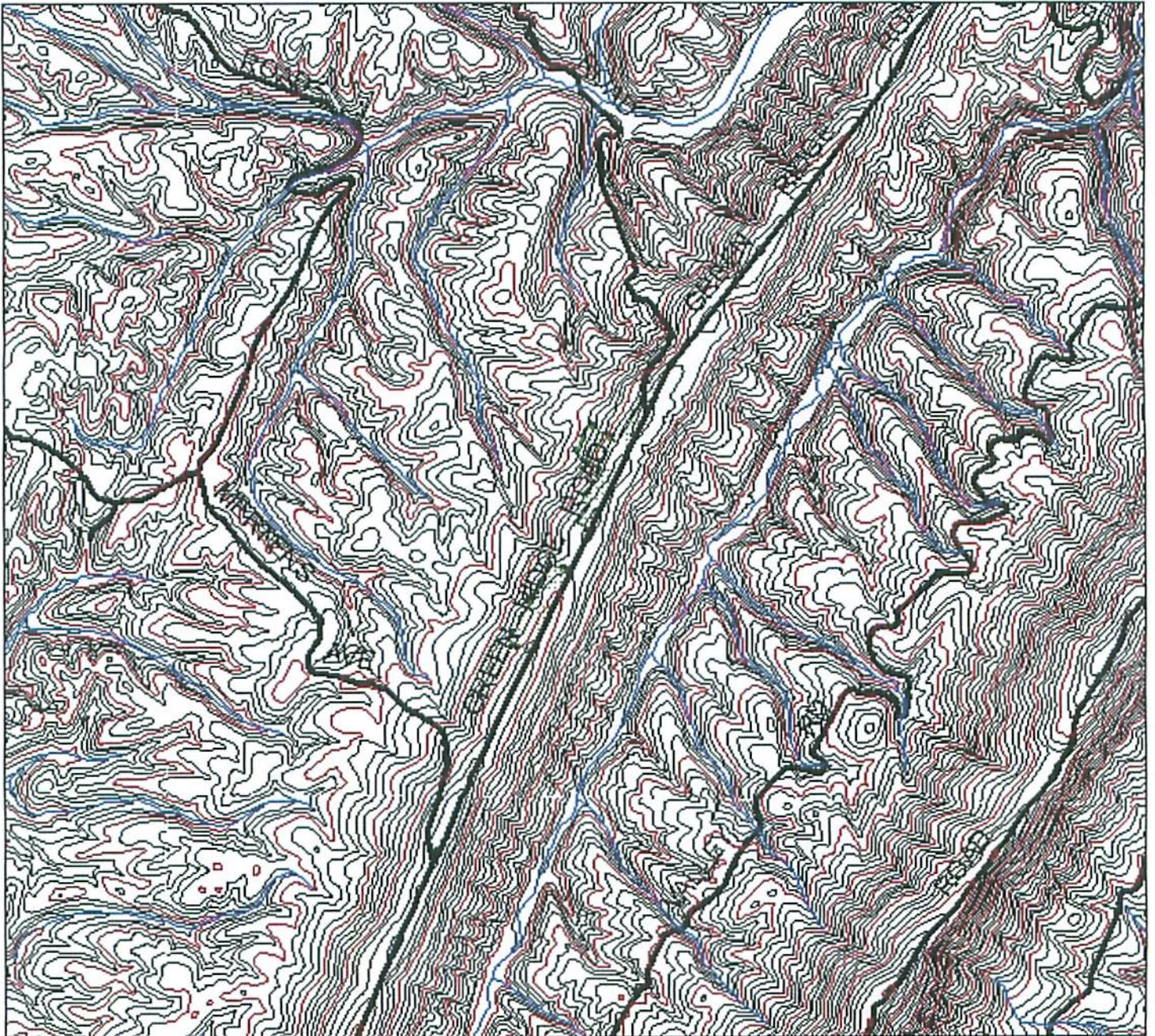
### Legend

-  Managed Area
-  Harvest Area

1:24,000



# FY-2011 Proposed Harvest Green Ridge Road



Compartment - 30  
Managed Area - 23 Acres  
Harvest Area - 23 Acres  
Age - 80 years  
Type - Hard Pine  
TPA - 382  
AGS - 67 sq. ft.  
Stocking - 110%+  
Growth Rate - <2%  
Soil Type - Dekalb  
Site Index - 58  
VMS - Moderate  
ROS - Roaded Natural  
Composition - VP-82%



### Silvicultural Prescription:

Pine Salvage - VA pine stand has passed maturity and is beginning to die and fall. This has become a problem with wind blowdowns falling onto Green Ridge Rd. on several occasions. All hard pine will be cut out of the blocks while leaving the oaks and hickorys remain. The blocks will be regenerated into mixed oak/VA pine stands. Oak regeneration is adequate in the understory. All hickory, white pine, flowering dogwood, and serviceberry will also be retained.

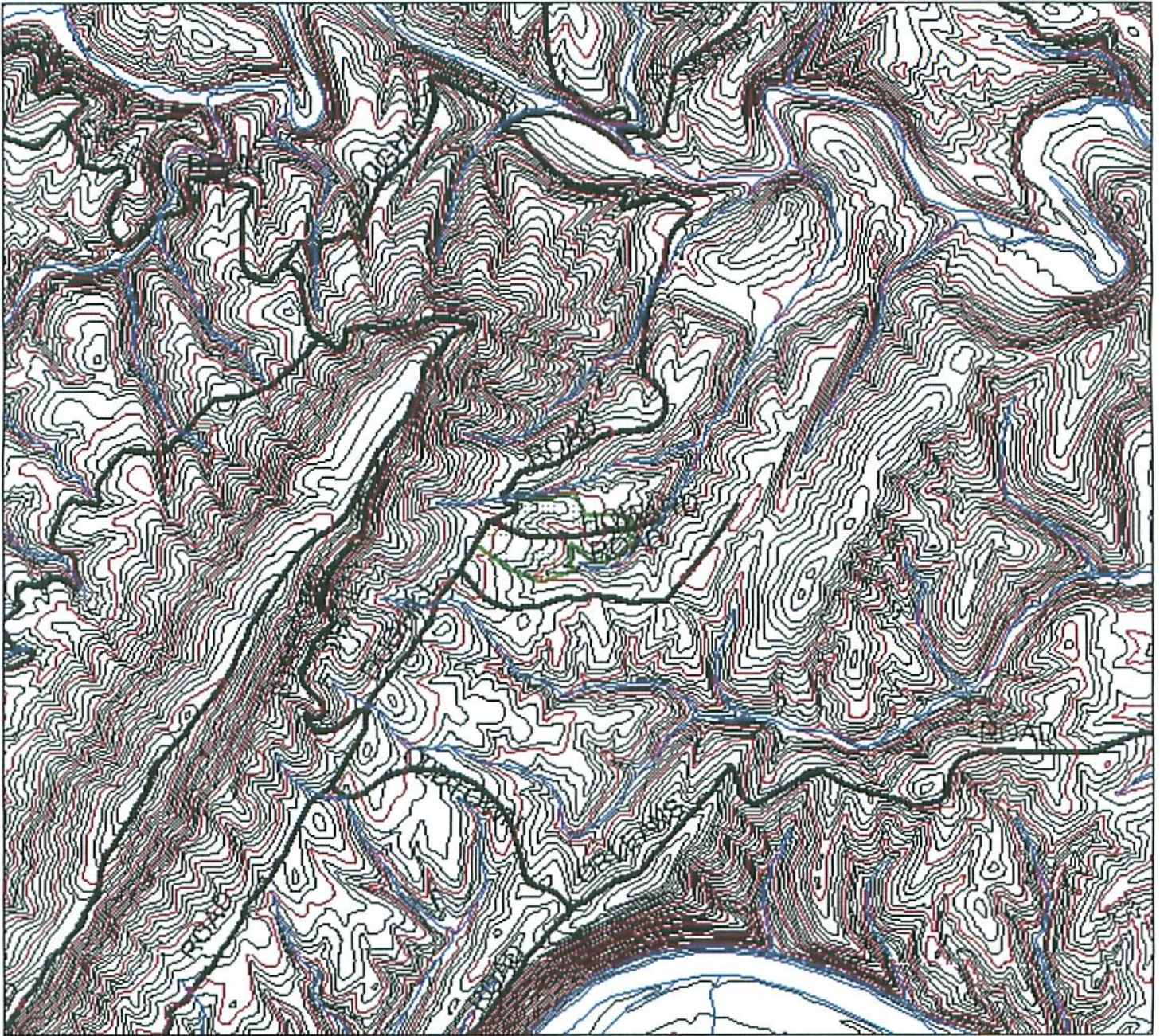
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### Legend

-  Managed Area
-  Harvest Area

# FY-2011 Proposed Harvest Howard Road



Compartment - 49  
Managed Area - 42 Acres  
Harvest Area - 37 Acres  
Age - years  
Type - Mixed Hardwood  
TPA - 616  
AGS - 85 sq. ft.  
Stocking - 110%+  
Growth Rate - 5%  
Soil Type - Calvin  
Site Index - 82  
VMS - Low  
ROS - Roaded Natural  
Composition - BO-42%  
YP-31%



### Silvicultural Prescription:

TSI Thinning - Remove 70 sq. ft. of basal area to reach B-level stocking. Red maple and black gum will be targeted first for removal while favoring oaks and yellow poplar as residuals. This will reduce the natural stress of being overstocked while promoting a more rapid growth of the residual stand.

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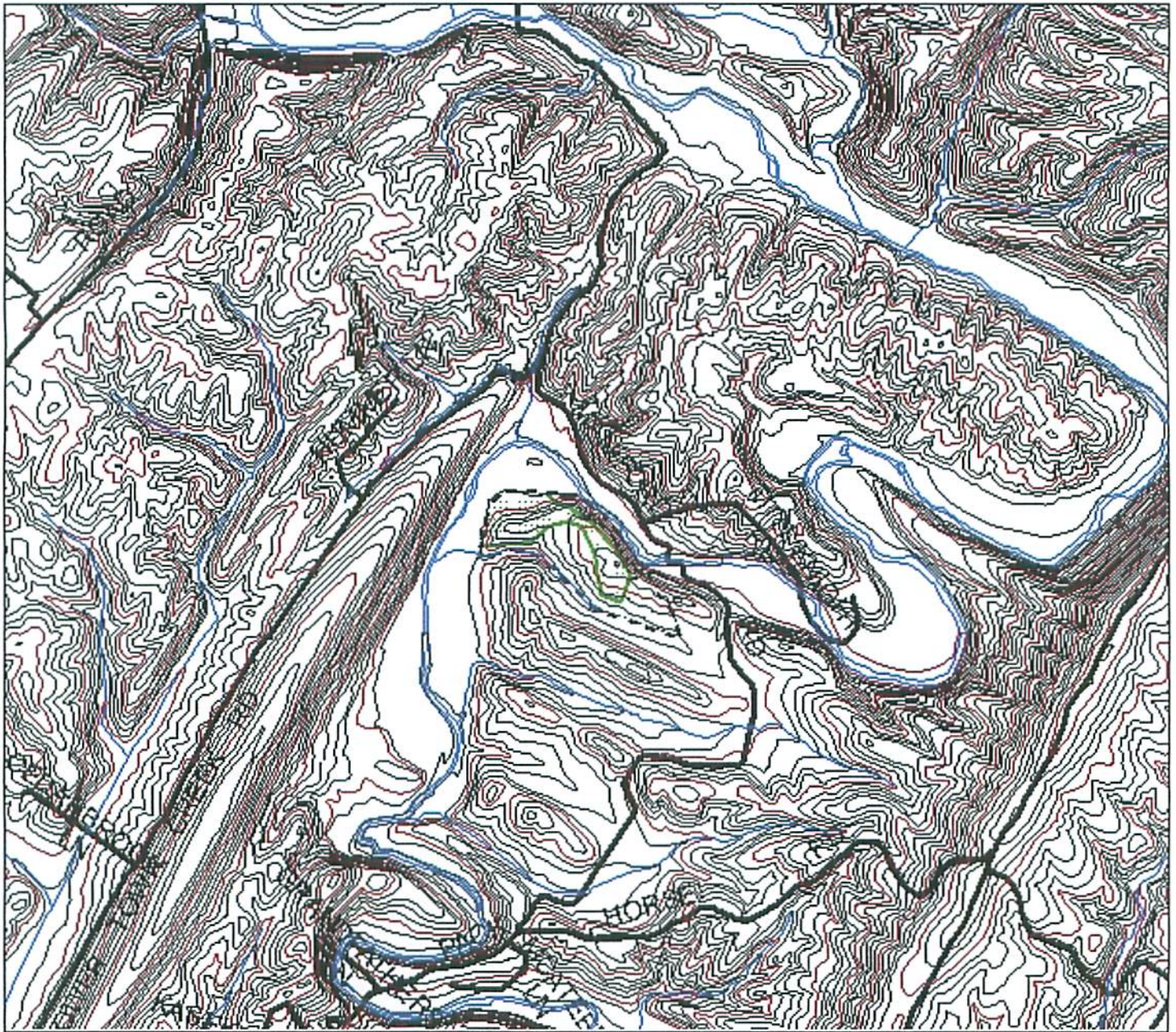


### Legend

-  Managed Area
-  Harvest Area



# FY-2011 Proposed Harvest Manifold Rd.



Compartment - 38  
Managed Area - 58 Acres  
Harvest Area - 23 Acres  
Age - 105 years  
Type - Mixed Oak  
TPA - 324  
AGS - 73 sq. ft.  
Stocking - 115%  
Growth Rate - <2%  
Soil Type - Weikert  
Site Index - 60  
VMS - Low  
ROS - Roaded Natural  
Composition - WO-55%,  
WP-11%

### Silvicultural Prescription:

Variable Retention: Due to inadequate regeneration in the understory seed trees will be selected as residuals to ensure a propagule source. Seed trees will include oaks, hickory, and black cherry. A small enclosure will be installed upon completion of harvest operation to monitor white-tailed deer impact on regeneration.

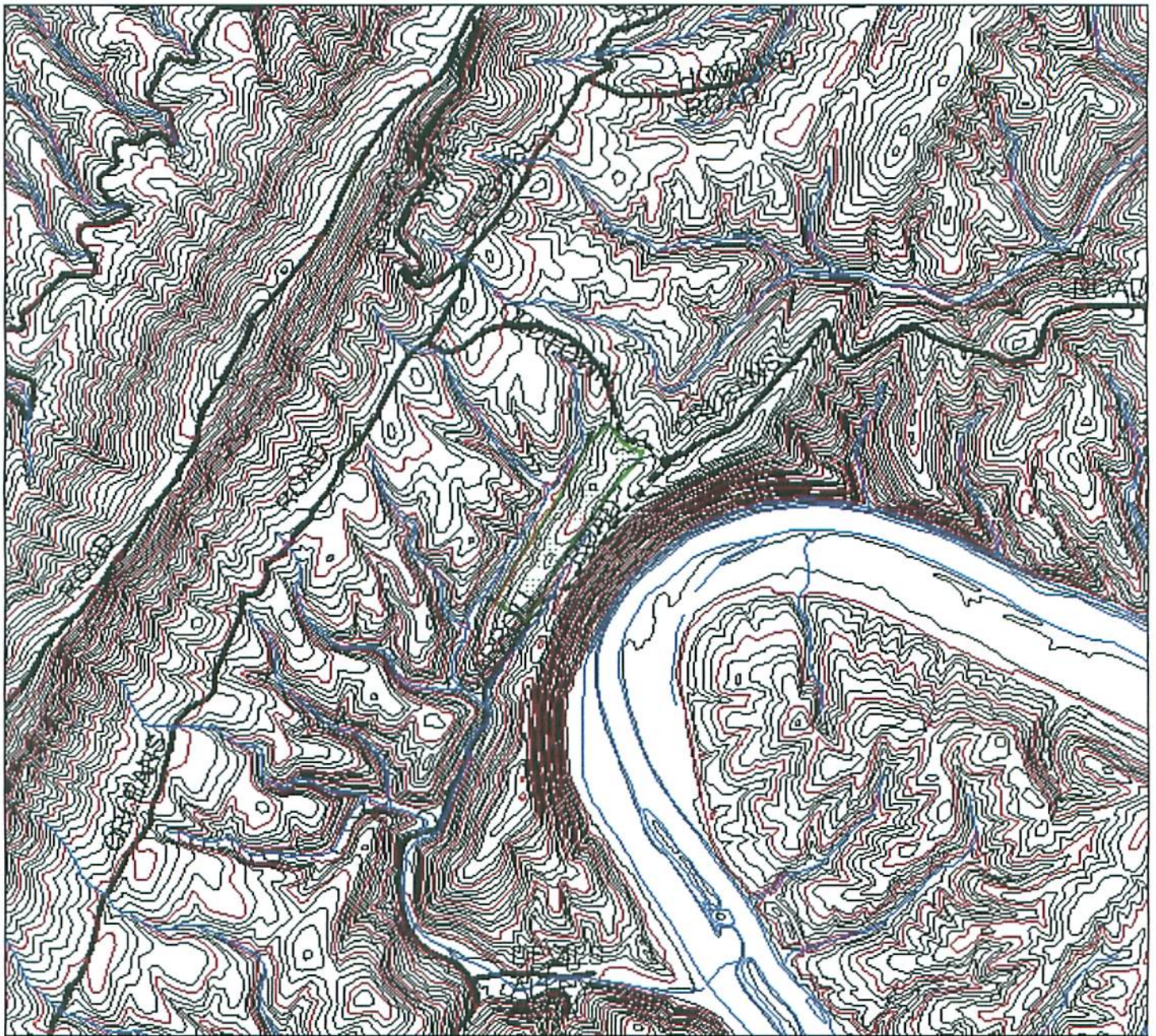
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### Legend

- Managed Area
- Harvest Area

# FY-2011 Proposed Harvest Oldtown Orleans Road



Compartment - 52  
Managed Area - 65 Acres  
Harvest Area - 36 Acres  
Age - 95 years  
Type - Mixed Oak/Hard Pine  
TPA - 316  
AGS - 40 sq. ft.  
Stocking - 110%+  
Growth Rate - <2%  
Soil Type - Calvin  
Site Index - 59  
VMS - Low  
ROS - Roaded Natural  
Composition - SO-26%  
HP-24%



## Silvicultural Prescription:

Variable Retention - Retain 10% of the original stand in patches and retain legacy trees. Regenerate the remainder of the stand. Oak regeneration is adequate. All hickory, white pine, flowering dogwood, and serviceberry will be retained.

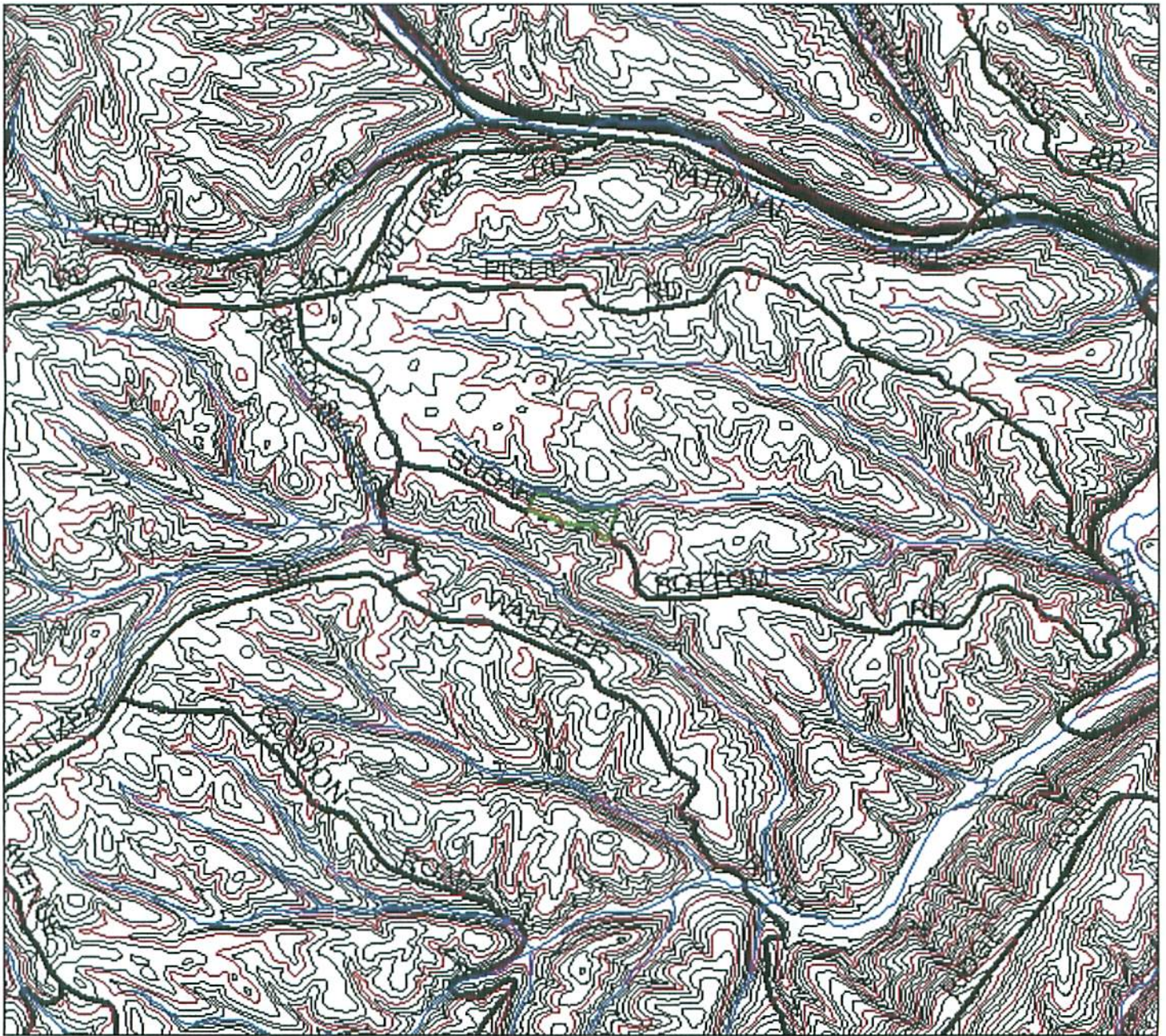
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## Legend

-  Managed Area
-  Harvest Area

# FY-2011 Proposed Harvest Sugar Bottom Road



Compartment - 10  
 Managed Area - 10 Acres  
 Harvest Area - 8 Acres  
 Age - 85 years  
 Type - Hard Pine  
 TPA - 276  
 AGS - 55 sq. ft.  
 Stocking - 110%+  
 Growth Rate - <2%  
 Soil Type - Weikert  
 Site Index - 58  
 VMS - Low  
 ROS - Roaded Natural  
 Composition - VP-60%,  
 SO-14%

**Silvicultural Prescription:**

Pine Salvage - Hard pine stand has passed maturity and beginning to die and fall. All pine will be harvested. Where available, five sound VA or pitch pine trees per acre will be retained as seed trees. 20 sq. ft. of oaks will be retained as residuals in the remainder of the stand where available. The stand will be regenerated as a mixed oak/hard pine stand. Oak regeneration is adequate. All hickory, white pine, flowering dogwood, and serviceberry will also be retained.



## REVIEW SUMMARY

### **COMPARTMENT #38 – Manifold Rd.**

A 23-acre variable retention harvest.

**ID TEAM:** No concerns with proposal.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned.

### **COMPARTMENT #70– Gorman Road**

A 27-acre variable retention harvest.

**ID TEAM:** No specific concerns.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned.

### **COMPARTMENT #30 – Green Ridge Road**

A 23-acre salvage harvest.

**ID TEAM:** No specific concerns.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned.

### **COMPARTMENT #10 – Sugar Bottom Rd**

A 8-acre salvage.

**ID TEAM:** No Specific Concerns

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned

### **COMPARTMENT #37 – Green Ridge Road**

A 29-acre variable retention harvest.

**ID TEAM:** No specific concerns.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned.

### **COMPARTMENT #49 – Howard Road**

A 37-acre timber stand improvement.

**ID TEAM:** No specific concerns.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned.

**COMPARTMENT #52 – Oldtown/Orleans Road**

A 36-acre variable retention.

**ID TEAM:** Suggested to leave clusters of pine for retention where possible.

**ADVISORY COMMITTEE:** No specific concerns.

**PUBLIC MEETING:** No specific concerns.

**FINAL PROPOSAL:** Proceed with proposal as planned and target clusters of pine for retention.



*Martin O'Malley, Governor*  
*John R. Griffin, Secretary*

**Green Ridge State Forest  
DNR-ID Team  
FY-11 Annual Work Plan Review  
Agenda**

**August 4, 2009**

09:00: Introduction review of Fiscal Year 2011 Annual Work Plan

09:15: Introduce Columbia Gas seismic testing proposal.

10:00: Visit Howard Road Proposal

10:50: Visit Oldtown/Orleans Road Proposal.

11:30: Review Great Eastern Trail Proposal.

12:00: Lunch @ Town Creek Stream Side.

12:30: Visit Manifold Road Proposal .

13:30 Visit shallow water impoundment proposal .

14:30 Visit Proposed Zumbrun Overlook.

15:30 Wrap Up Discussion

16:00 Adjourn



GREEN RIDGE STATE FOREST  
28700 Headquarters Drive, NE; Flintstone, MD 21530  
301-478-3124 • [www.dnr.maryland.gov](http://www.dnr.maryland.gov) • TTY users call via Maryland Relay

**Green Ridge State Forest**  
**Fiscal Year 2011 Annual Work Plan Review**  
August 4, 2009

**Attendance:**

Ed Thompson  
Jim Kale  
Chris Anderson  
Bob Webster  
Jesse Morgan  
Jack Perdue  
Jim Mullen  
Rick Latshaw  
Wade Dorsey  
Alan Klotz  
Mark Beals  
Rob Feldt

**Notes:**

**Columbia Gas (see attached)**

The ID team will review this proposal later as more information becomes available. The impact should be minimal. (See letter attached)

**Oldtown / Orleans Road**

This proposal will use a variable retention harvest. It was requested to keep the pine if possible. Pine warbler was heard here but it is not rare. It was suggested to leave the pine part of an aggregate retention.

**Howard Road**

There were no issues with this proposal the road location on the map was an issue that was resolved. The ID team did not stop here.

**Great Eastern Trail Location (see attached)**

The final location of trail is still in negotiation. The organizers want to include the Paw Paw Tunnel but not to include too much of the C&O Canal. No final decisions were made at this time, but to reach a final recommendation will require more analysis. The ID team did have an opinion as to which paths are not desirable. The Merton's Avenue route seems the most desirable at this time.

**Maniford Road**

The harvest will not involve the steep slopes. It will retain the white pine and hemlock. The harvest will remove some trees at the top and near the bottom of the slope as access allows. The bottom flat area will use a seedtree harvest method.

**Shallow Water Impoundment**

A one-acre impoundment is being considered. NRCS is in the process of determining if the area is a non-tidal wetland. The ID team supports the concept this time. There are no known conflicts with native species.

**Zumbrun Overlook**

There are two possible locations along the Great Eastern Trail which are being considered for this overlook. To determine the best location, staff will wait for leaf-fall so as to gain a better view of the valley. There were no environmental concerns with either of the two possible locations. The ID team commented to keep the impact to a minimum.





*Martin O'Malley, Governor*  
*John R. Griffin, Secretary*

**Green Ridge State Forest  
Advisory Board  
FY-11 Annual Work Plan Review  
Agenda**

**October 19, 2009**

08:30: Coffee & Donuts

09:00: Introductions & GRSF Updates

09:15: Status Update on State Forest Planning & Certification (Jack Perdue)

09:30: Review FY 2010 proposed Annual Work Plan

11:00: Visit Oldtown Orleans Road Proposal

11:20 Discuss "GET" and Kasekamp bottoms project. (will visit site if time allows)

12:00: Lunch at Bull Ring Ranch Early Successional Habitat Area (bagged lunch provided).

12:45 Review Manifold Road Timber proposal.

13:15: Review Bull Ring Shallow Water Impoundment proposal.

14:30 Wrap up conclusions.



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**From:** pstevens122656@comcast.net [mailto:pstevens122656@comcast.net]  
**Sent:** Monday, March 22, 2010 9:45 PM  
**To:** Perdue, Jack  
**Subject:** State Forest Annual Work Plans

All three work plans obviously are the result of many hours of hard work. The silviculture consideration of all potential issues and outcomes. No complaints.

I am very pleased to see all three forests taking advantage of the Recreational Trail Program for more consideration for recreational four wheel drive access..

**Green Ridge State Forest-** There has been massive improvements on this forest over the years moving forward with this trend. I do recommend that the state keep researching potential ATV/Motorcycle pressure from the forest. With that being said, We would want to see opportunities. This can be done with very little effort. Temporary openings (or longer term) completion of a given project and roads that have sustained flood or washout damage experience with minimal impacts to the resource.

As per use openings of some typically closed roads can make for an enjoyable outing,

The group camping sites have been a huge plus on this forest. The vault toilets are a

We are 100% in favor of the habitat enhancement you have in the plan. An excellent :

**Potomac State Forest-** This forest continues to be a favorite location for many of our users for its very unique setting and experience. Continued encouragement of volunteer assistance on use routes under controlled conditions is an excellent way to go and should be a part of

A thought for future plans would be some established foot paths to the Potomac River access is rather dangerous given the Rattle Snake potential.

Increased law enforcement day and night from time to time would be appreciated. Irregular perfect experience. Not all users are a problem. Some are just rude, though.

We even had a small tent stolen from one of our sites last year and another camper said I never had anything close to that happening before.

While controlling soil movement is very important. On an OHV/ORV route, rutting shows road bed from time to time. Driving on bed rock does help to keep speeds and dust down. Of course, culverts are a must.

**Savage River State Forest-** There is so much potential there. In the past, controlled four wheel drive experiences in Maryland. It was extremely popular with the four wheel combination of volunteer conservation work with some outstanding camping, four wheelers attended these outings and offered some great education for all, especially the youth.

The winter February snow events were a complete win-win. Often we filled the Casse quite a needed boost to the local economy. The wheeling, due to the conditions had ne been any user.

With the funds available from the Recereational Trails Program trail marking and cons Lick Trail is very popular, as stated in the plan. Thus, closure does not make any sense. Again, additional law enforcement would go a long way in helping to preserve a pleas

Establishing some group sites would be a positive improvement.

We would appreciate being informed of any new or potentially new four wheel drive a of the concerns with items like stream crossings, by placing rocks on the banks and s snowmobile routes makes a lot of sense, as well.

A thought would be to establish some new campsites on other areas of the forest and

The Middle Atlantic Four Wheel Drive Association very much appreciates the efforts p membership, in the past.

Respectfully Submitted,

Preston Stevens

Director of Conservation/Land Use Middle Atlantic Four Wheel Drive Association

Preston Stevens  
4928 Old Hanover Road  
Westminster, Md. 21158  
410-346-6029

**From:** Dave DeChristopher [mailto:ddechri@yahoo.com]  
**Sent:** Friday, April 09, 2010 8:15 AM  
**To:** Perdue, Jack  
**Cc:** pstevens122656@comcast.net  
**Subject:** State Forest Annual Work Plans

Dear Jack Perdue,

Through a email from Middle Altantic Four Wheel Drive Association, I was made aware of the for the State Forests. I scanned the plans for all 3 forests (Green Ridge, Potomac, Savage River recreation to see what is planned. I am encouraged to see that in the Savage River plan is ment: recreationalist. I have been involved in organized 4WD trail riding both through PA Jeeps and riding in both Savage River and Green Ridge State Forest although these were numbers of year is infered in the document, slow paced travel through the forest (on designated trails) with occa me the riding experience is more about seeing the forest, wildlife and overlooks and enjoying f for the improvement and maintenance needed to support those aspects of 4WD recreation. I als

Sincerely,

Dave DeChristopher

45 N Church St SW

Ephrata, PA 17522

717-859-1702

Member of PA Jeeps, MAFWDA, UFWDA

## **WATERSHED IMPROVEMENT PROJECTS**

Continue to maintain no-cut buffers along all streams within harvest areas.

Continue to establish and enhance riparian buffers along Town Creek with volunteer tree planting projects. Non invasive tree and shrub species will be planted to establish forest buffers and enhance wildlife habitat. The F.J. Bruisers Off-Road Club has participated in such planting projects the previous two springs and plan to continue to contribute this coming year by doing additional planting and buffer maintenance in the Bull Ring area.

Work with the Natural Resources Conservation Service (NRCS), Maryland Department of Environment (MDE), and the Allegany County Soil Conservation District (SCD) to install a two-acre shallow water impoundment to convert a section of an abandoned crop field into a wetland habitat. The shallow water wetland will provide a seasonal open water area with a depth of 6-18 inches. This will provide excellent habitat and feeding sources for waterfowl, especially dabbling duck species, migratory wading birds, amphibians, and other wetland dependant wildlife. See map next page.

Explore with MDE the potential of enhancing existing wetlands in the Bull Ring Ranch area.


# FY-2011 Proposed Shallow Water Impoundment at Bull Ring



1:15,000



Legend

 Shallow Water Impoundment

## **ECOSYSTEM RESTORATION PROJECTS**

1. Partnership with American Woodcock Initiative and Maryland Wildlife and Heritage Division to develop a woodcock habitat plan for the bottomlands currently comprised primarily of abandoned agricultural fields along the Potomac River and Kasecamp Road. This plan will include invasive plant suppression and wetland restoration. See following page description and map.
2. Work will continue to suppress ailanthus populations on the forest. Focus will be put on roadside populations and individuals found within harvest proposal areas. Research has shown that suppression of ailanthus is most successful when using basal bark or cut surface treatments prior to harvest.
3. Conversion of upland grasses from tall fescue to more desirable grassland species mix in some field units within the Kirk Orchard. Research has shown that tall fescue has detrimentally affected reproduction systems in some upland avian and mammal species. Tall fescue exhibits a symbiotic relationship with the fungus species *Neotyphodium coenophialum* which can cause fescue toxicosis in small mammals and birds when ingested. Furthermore tall fescue has a low mineral and protein content, thus, does not contain adequate nutrition for many species.
4. Rx Fire in Kirk Orchard and Bull Ring areas to maintain native warm season grass plantings.
5. Remove overgrown hedgerow and field trees to restore brush habitat component in early successional wildlife habitat areas.
6. Work will continue to implement practices outlined in the Kirk Orchard Early Successional Wildlife Habitat Area plan to restore, enhance, and maintain an upland ecosystem.



**“Got Woodcock?”**

### **Kasecamp Bottomlands Enhancement Project**

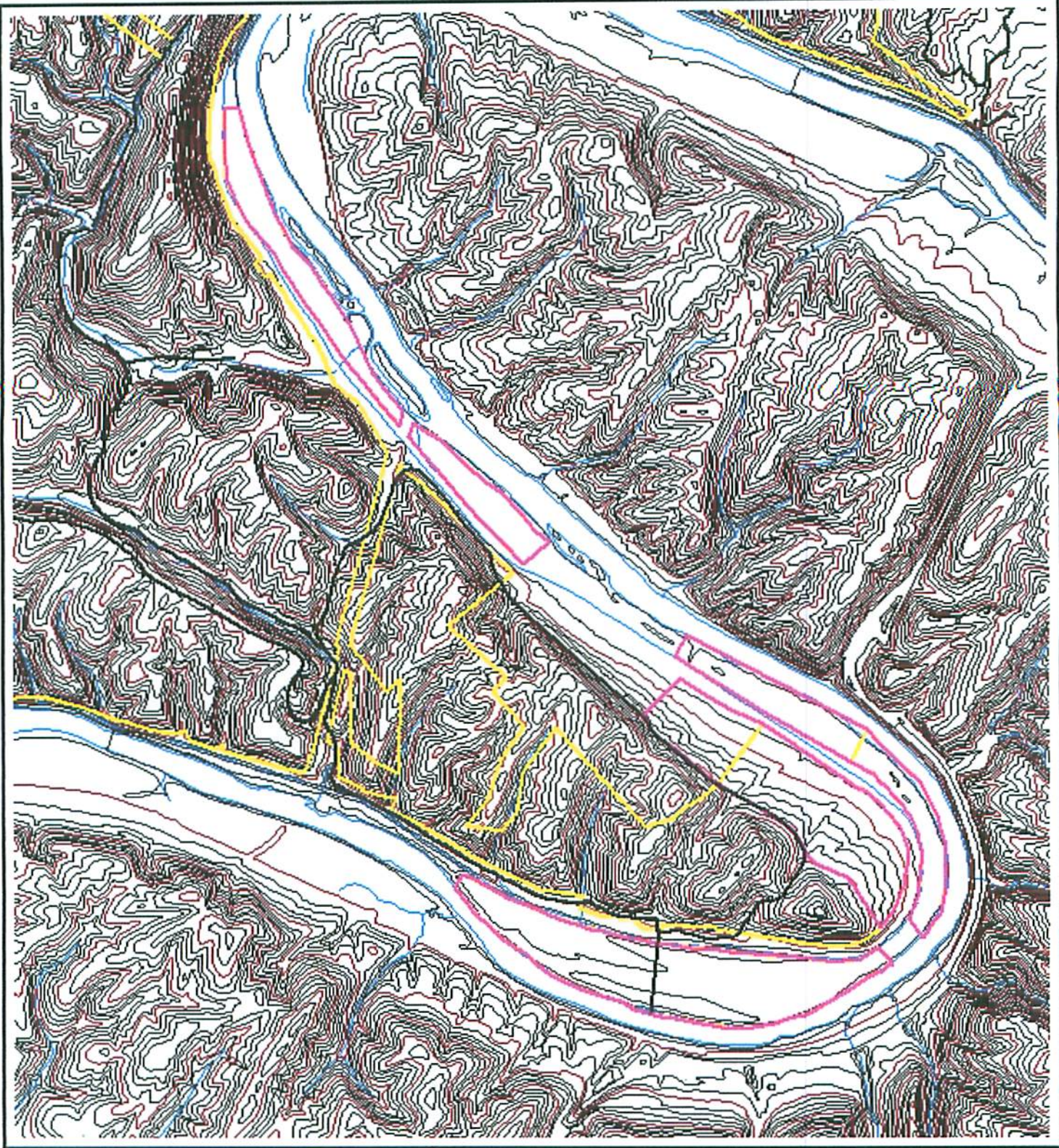
Interest has been raised and some preliminary partnership meetings have been conducted to consider the Kasecamp bottomlands for some restoration and enhancement work with a focus on American Woodcock Habitat. Maryland DNR Wildlife & Heritage Services has agreed to take the lead on preparing a draft focus management plan for the area. This plan will be drafted and then distributed among the interdisciplinary team and the stakeholders for edits and ultimately approval. Upon approval of the plan, its function will be similar to the Kirk Orchard Early Successional Area Plan completed and approved last year.

This management plan will include cover type proposals, habitat management prescriptions, invasive plant management, provisions for reptile and amphibian habitats, and creation, restoration and/or enhancement of wetlands.

Partners in this project will include GRSF, Wildlife & Heritage Services, MDE, and Wildlife Institute.



# Kasecamp Bottomlands Enhancement Project



1:24,000



**Legend**

- Proposed Management Area
- GLOF Boundary

## **MONITORING PROJECTS**

- 1. MD DNR Fisheries will continue to monitor aquatic populations in Town Creek and the Potomac River. Furthermore, the University of Maryland Center for Environmental Science (UMCES) Appalachian Laboratory will continue to conduct biological stream surveys in GRSF waterways. The Ridge and Valley Stream Keepers will also continue to monitor water quality in the streams within the region.**
- 2. GRSF staff will monitor regeneration of stands by completing post harvest regeneration inventories on all final rotation harvests during 2<sup>nd</sup> growing season.**
- 3. MD DNR Wildlife & Heritage Division will continue to monitor 2 GRSF resident black bear sows and cubs that are collared and gps equipped.**
- 4. MD DNR Wildlife & Heritage Service will continue to research and monitor T&E species on the forest including wood turtle, timber rattlesnake, and several lepidoptra species.**
- 5. MD DNR Wildlife & Heritage Service will continue to monitor big game harvest on the State Forest via required hunter harvest check in system.**
- 6. Wildlife Institute will monitor American Woodcock population in Kirk Orchard area with annual spring singing ground surveys.**
- 7. GRSF staff will continue to monitor and document all timber operations within the forest on a weekly basis.**
- 8. GRSF staff will monitor turkey reproduction by tracking observations per mileage driven from June 15 to September 15.**
- 9. GRSF staff will work with Wildlife & Heritage Division to develop a bird monitoring program for the Kirk Orchard Early Successional Area to observe responses to habitat work.**
- 10. Maryland Department of Agriculture (MDA) will continue to monitor gypsy moth and hemlock woolly adelgid populations on the forest.**

## Operational Management

### 1. Introduction

This section of the plan is designed to cover the annual cost and revenues associated with the operational management of Green Ridge State Forest (GRSF). It is the Department's intent that all revenues generated from GRSF will be used to pay for the management and operation of the Forest. The numbers expressed in this section are only estimates and averages of annual expenses and revenues. These numbers will fluctuate each year based on management prescriptions, economic conditions and public use of the forest.

The following information is a breakdown of Revenues and Operational costs associated with GRSF. These figures are only estimates that are based on projected revenues and operational expenses. Yearly changes in timber markets and weather conditions can severely affect revenues. Operational expenses will vary from year to year and the numbers below are based on the budget request submitted for fy-2010

### 2. GRSF FUNDING SOURCES: Estimated - \$545,197

State Forests in Maryland are funded from several sources. The first is the **general fund**. This is money generated from taxes. It is used in state forests primarily to fund classified (permanent) employee salaries and benefits. \$184,985

The second source is **revenue generated by the forests**. These funds are deposited in the Department of Natural Resources' Forest or Park Reserve Fund (FPRF) and must be appropriated by the General Assembly through the annual budgeting process before being spent. The state forest budget is prepared approximately one year before the beginning of the fiscal year in which it will be spent. The budget then goes through the legislative approval/review process along with all other state operating budgets. Once adopted, the budget goes into effect the first day of the fiscal year (July 1<sup>st</sup>). Revenue generated by the state forests is designated special fund revenue. \$240,483

In addition, GRSF is included in the Maryland Forest Service's Off Road Vehicle (ORV) Budget. This separate budget is based on **revenue generated from ORV permit sales** statewide and is allocated back to the state forests through the budgeting process. ORV funds generated as permit sales at GRSF do not necessarily reflect funds allocated back to the GRSF operating budget. These funds, as expenditures from all fund sources must be appropriated before being spent. ORV funds are a restricted special fund and can only be spent for ORV Trail related expenditures. \$59,729

Another source of funding at GRSF is **Recreational Trail Grants**. These grants are competitive and are generally limited to \$30,000 per year per grant. The source of this funding is the Federal Department of Transportation administered through the Maryland Department of Transportation, State Highway Administration. These funds are designated reimbursable funds. \$60,000

### **3. OPERATIONAL COST: Estimated Annual Expenses - \$545,197**

Operational expenses are those costs paid directly out of the GRSF operational budget by the State Forest Manager and vary based on approval of operational budgets. The Forest Manager prepares a proposed operational budget for the forest based on instructions provided approximately one year in advance of the fiscal year. The FY-2010 budget proposal was prepared in July of 2008.

#### ***-Classified Salaries,Wages and Benefits: \$243,315***

This cost is associated with FPRF funds and General Funds used to pay GRSF Maryland Classified Employee Salaries.

#### ***-Contractual Staffing: \$140,453***

This cost is associated with contractual staffing associated with operations of the state forest. Contractual personnel are responsible for conducting work outlined in the annual work plan, managing the daily activities on the forest, including boundary line work, maintenance of trails, forest roads, maintaining primitive campsites, a public shooting range, overlooks, wildlife habitat areas, and implementing all maintenance, recreational, silviculture, and ecosystem restoration projects.

#### ***- Land Operation Cost: \$96,929***

This includes expenses for office and field equipment, vehicles, gates, gravel, signs, boundary paint, roadwork contracts and construction, trash removal from illegal dumping, boundary line work & surveying, tree planting, site preparation, control of invasive species, non-commercial thinning and other forest management practices. These costs vary greatly from year to year based on the activities identified in the Annual Work Plan.

#### ***- County Payments: \$64,500***

These are revenue payments to local county governments which will vary every year. Payments are made on an annual basis to Allegany County based on 25% of the gross revenue generated from GRSF. These payments come out of revenue generated from timber sales and recreation. These payments are used to help the counties offset the loss in property tax revenues which are not paid on state owned lands.

### **4. Summary**

This is the general breakdown on Revenues and Operational Costs associated with the GRSF. As described, these figures will vary from year to year. A more detailed picture on revenues and operational cost will be provided quarterly as the actual picture develops within implementation of Annual Work Plan and as operating budgets are approved.

Total Revenue	\$545,197
Total Expenditure	\$545,197

**Projected Revenue and Expenses  
Green Ridge State Forest  
Fiscal Year 2011**

<u>Source of Funds</u>		General Funds	Special Funds	Reimbursible Funds	Total
<b>General Funds</b>	From Tax collections				
	Salaries and Benefits	184,985			184985
<b>Revenue</b>					
<b>Source Code</b>	<b>Description</b>				
5262	Shooting Range Permit		8,000		8000
6564	Camping		65,000		65000
7683	Forest Products other than Timber		1,600		1600
7725	Timber		150,000		150000
7896	Rights-of-way		0		0
7953	House Rent		2,535		2535
7956	Land Rent		50		50
7977	Pavilions & Shelters		0		0
9426	Special Projects		0		0
	Other		0		0
Sub Total			227185		227185
<b>Trail Grants</b>	State Highway Administration Reimbursible Fund Grants			60,000	60000
<b>ORV Fund</b>	Off Road Vehicle Restricted Use Fund		59,729		59729
<b>Total Funds From All Sources Projected</b>		<b>\$184,985</b>	<b>\$286,914</b>	<b>\$60,000</b>	<b>\$531,899</b>

**Projected Expenditures**

	Description				
01	Salaries and Benefits Classified	243,315			243315
02	Salaries - Contractual Seasonal and LT		94,259	46,194	140453
03	Postage and Telephone		3,626		3626
04	Travel		710		710
06	Electric and Heating Fuel		8,787		8787
07	Vehicle Expense		17,612		17612
08	Contractual Services		35,255	13,806	49061
09	Supplies and Materials		15,888		15888
10	Replacement Equipment		1,245		1245
11	Additional Equipment		0		0
12	County Refund		64,500		64500
13	Fixed Costs		0		0
<b>Total Projected Expenditures from All Sources</b>		<b>\$243,315</b>	<b>#####</b>	<b>\$60,000</b>	<b>\$545,197</b>