

CE 270-07 Elk River Park
Site Plan

57829-6521

Martin O'Malley
Governor



Anthony G. Brown
Lt. Governor

Margaret G. McHale
Chair

Ren Serey
Executive Director

STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401
(410) 260-3460 Fax: (410) 974-5338
www.dnr.state.md.us/criticalarea/

February 12, 2008

Mr. Ed Slicer, Manager
Cecil County Department of Parks and Recreation
17 Wilson Road
Rising Sun, Maryland 21911

Re: Elk River Park Redevelopment Project – Planting Plan
Project Subcommittee Approval

Dear Mr. Slicer:

As you are aware, the Critical Area Commission (CAC) approved the County's proposal to redevelop Elk River Park on December 5, 2007 with the condition that the County submit a revised planting plan to the CAC Project Subcommittee for approval. The revised planting plan was required to achieve a minimum 1:1 ratio of plantings within the Buffer for the buffer disturbance. The revised planting plan and agreement from Cecil County to allow the grassed "pocket area" of 0.62 acres to naturally reforest was reviewed by the Project Subcommittee on February 6, 2008 and was unanimously approved.

Enclosed please find a Planting Agreement form. Please complete the form with an expected planting timeframe and return a signed copy to me. Also, in fulfillment of the mitigation requirements, please notify the Commission once the mitigation plantings have been implemented. Should you have any questions, please feel free to contact me at 410-260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt".

Kate Schmidt
Natural Resources Planner

cc: Deborah Herr, Herr Landscape Architecture
Kelly Wright, Andrews Miller & Associates

**CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS
1804 West Street, Suite 100
Annapolis, Maryland 21401**

MEMORANDUM

To: Project Subcommittee
From: Kate Schmidt
Date: February 6, 2008
Subject: Elk River Park Mitigation Planting Plan – Cecil County

On December 5, 2007 Cecil County Department of Parks and Recreation presented the Elk River Park Redevelopment project for Conditional Approval. It was approved by the Commission with the condition that the applicant submit a new mitigation planting plan to the Project Subcommittee. The new mitigation planting plan was to evaluate the site and provide at a minimum 1:1 mitigation for impacts to the 110-foot Buffer. On January 24, 2008 staff received a revised planting plan that achieves this goal.

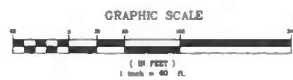
Impacts to the 110-foot Buffer for the Elk River Park project totals 36,218 square feet, for 33,706 square feet of disturbance for the boat ramp, and 2,512 square feet of disturbance for creation of a wetland mitigation project. Previously the County showed only 30,650 square feet of mitigation in the Buffer. The Elk River Park site has limited area available within the 110-foot Buffer for planting and the selected sites were two existing cleared areas adjacent to the new boatramp. During project review, the Project Subcommittee determined that a minimum of 1:1 mitigation for impacts to the Buffer (33,706 sq ft) must be provided in the Buffer.

The Subcommittee also requested the County to determine whether an area of the property that currently forms a break between two riparian forests was located in the 110-foot Buffer. Upon review of aerial information the County determined this gap was located outside the Buffer (see attached).

In order to compensate for the increased mitigation, the County chose to enlarge the plantings at the previously selected Buffer sites. The new planting plan provides 36,875 square feet of mitigation which meets the requirement of 36,218 square feet. The County also intends to allow the gap area identified by the Project Subcommittee to naturally regenerate. This will connect both the existing forest areas and Planting Area C, which will be located at the base of the parking lot.



**ELK RIVER PARK
CRITICAL AREA MAP**



***** Area of natural regeneration

RECEIVED

JAN 23 2008

CRITICAL AREA COMMISSION

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2
02178



Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor



Margaret G. McHale
Chair

Ren Serey
Executive Director

STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401
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www.dnr.state.md.us/criticalarea/

December 10, 2007

Mr. Ed Slicer, Manager
Cecil County Department of Parks and Recreation
17 Wilson Road
Rising Sun, Maryland 21911

Re: Elk River Park Redevelopment Project
Critical Area Commission Conditional Approval

Dear Mr. Slicer:

The purpose of this letter is to officially notify you of the Critical Area Commission's action on the above referenced project. On December 5, 2007, the Critical Area Commission unanimously approved the County's proposal and site plan to redevelop Elk River Park. This approval included the following condition:

Cecil County Department of Parks and Recreation shall revise the proposed planting plan to achieve a minimum 1:1 ratio for buffer disturbance, with the remaining mitigation to be achieved onsite and contiguous to existing forested areas, for review and approval by the Project Subcommittee.

In fulfillment of the above conditions, please also notify the Commission once the mitigation plantings have been implemented. Please note that should any changes to the site plan be proposed in the future, additional review and approval by the full Commission will be required. Should you have any questions, please feel free to contact me at 410-260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt".

Kate Schmidt
Natural Resources Planner

Cc: Deborah Herr

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor



Margaret G. McHale
Chair

Ren Serey
Executive Director

STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401
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August 23, 2007

Ms. Deborah Herr Cornwell
Herr Landscape Architecture &
Environmental Design
601 Locust Street, Suite 402
Cambridge, MD 21613

Re: Elk River Park Boat Ramp, Cecil County, Maryland
Critical Area Mitigation Requirements

Dear Ms. Cornwell:

Thank you for submitting the additional required information for the above referenced project. The Cecil County Department of Parks and Recreation is proposing to develop a waterfront park at Elk River Park. Approximately 38.41 acres of the park are located within the Resource Conservation Area (RCA). The work proposed consists of the following; (1) extension of River Bend Parkway, (2) construction of stormwater sediment ponds (3) construction of new parking areas, (4) construction of a new dual lane public boat ramp with floating pier, (5) construction of a fixed courtesy pier along the creek, and (6) installation of new bulkhead with stone dust walkway and stone revetment. Additionally, the County is proposing to construct a wetland mitigation area in the 100-foot Buffer for impacts to tidal and nontidal wetlands.

Therefore, due to the increase intensity of use in the Resource Conservation Area and grading in the 100-foot Buffer for the construction of the wetland mitigation area, Conditional Approval by the Critical Area Commission under COMAR 27.02.06 is required.

The following mitigation should be provided for impacts to the 110-foot Buffer and to woodland vegetation:

1. 2:1 Mitigation in the 100-foot Buffer for the Area of Disturbance to install the Boat Ramp (for Shoreline Access)
2. 1:1 Mitigation in the 100-foot Buffer for the Area of Disturbance to construct the wetland mitigation
3. 1:1 Mitigation in the Critical Area for removal of 7 trees and 6,500 square feet of woodland scrub/shrub vegetation

Additionally, the County Department of Public Works is proposing 2,700 square feet of mitigation in the 100-foot Buffer at Elk River Park for impacts to the 100-foot Buffer associated with sewer line improvements in the Carpenters Point Road neighborhood.

The Critical Area Commission meets the first Wednesday of every month. In order to be scheduled for the agenda, please provide a summary of mitigation requirements and planting plan if available, copies of all applicable state and local permits including any tidal and nontidal wetland permits, stormwater permits, and sediment and erosion control permits, and responses to the following six items listed below:

In order to qualify for consideration by the Commission for conditional approval, it shall be shown by the proposing or sponsoring agency that the project or program has the following characteristics:

B.(1) That there exist special features of the site or there are other special circumstances such that the literal enforcement of these regulations would prevent a project or program from being implemented;

B.(2) That the project or program otherwise provides substantial public benefits to the Chesapeake Bay Critical Area Program;

B.(3) That the project or program is otherwise in conformance with this subtitle;

The conditional approval request shall, at a minimum, contain the following:

C.(1) A showing that the literal enforcement of the provisions of this subtitle would prevent the conduct of an authorized State or local agency program or project;

C.(2) A proposed process by which the program or project could be so conducted as to conform, insofar as possible, with the approved local Critical Area program or if the development is to occur on State-owned lands, with the criteria set forth in COMAR 27.02.05;

C.(3) Measures proposed to mitigate adverse effects of the project or program or an approved local Critical Area program or, if on State-owned lands, on the criteria set forth in COMAR 27.02.05.

If there are any questions, I would be happy to meet with the appropriate persons regarding the above items and scheduling with the Commission. I may be contacted at (410) 260-3475.

Sincerely,



Kate Schmidt
Natural Resource Planner
CE270-07

Cc: Mr. Ed Slicer, Parks and Recreation
Kelly Wright, Andrews Miller & Associates



STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401
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May 30, 2007

Mr. Ed Slicer, Manager
Cecil County Department of Parks and Recreation
17 Wilson Road
Rising Sun, Maryland 21911

Re: Elk River Park
Roadway and Boat Launch Expansion

Dear Mr. Slicer:

Thank you for submitting the above referenced project for review by the Critical Area Commission. The Cecil County Department of Parks and Recreation is proposing to develop a waterfront park at Elk River Park. The majority of the work proposed is within the Resource Conservation Area (RCA) of the Cecil County Critical Area.

Based on the information provided the work proposed consists of the following; (1) extension of River Bend Parkway, (2) construction of stormwater sediment ponds (3) construction of new parking areas, (4) construction of a new dual lane public boat ramp with floating pier, (5) construction of a fixed courtesy pier along the creek, and (6) installation of new bulkhead with stone dust walkway and stone revetment. Additionally, the County is proposing to construct a wetland mitigation area in the 100-foot Buffer for impacts to tidal and nontidal wetlands.

I have reviewed the proposal for consistency and have determined the project must obtain conditional approval from the Critical Area Commission under COMAR 27.02.06 'Conditional Approval of State or Local Agency Programs in the Critical Area' due to the proposed construction of the wetland mitigation project within the 100-foot Buffer.

In order for the Critical Area Commission to review the proposed wetland mitigation portion of the project, the County must provide responses for the following six elements regarding the wetland proposal:

In order to qualify for consideration by the Commission for conditional approval, it shall be shown by the proposing or sponsoring agency that the project or program has the following characteristics:

B.(1) That there exist special features of the site or there are other special circumstances such that the literal enforcement of these regulations would prevent a project or program from being implemented;

B.(2) That the project or program otherwise provides substantial public benefits to the Chesapeake Bay Critical Area Program;

B.(3) That the project or program is otherwise in conformance with this subtitle;

The conditional approval request shall, at a minimum, contain the following:

C.(1) A showing that the literal enforcement of the provisions of this subtitle would prevent the conduct of an authorized State or local agency program or project;

C.(2) A proposed process by which the program or project could be so conducted as to conform, insofar as possible, with the approved local Critical Area program or if the development is to occur on State-owned lands, with the criteria set forth in COMAR 27.02.05;

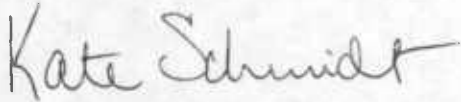
C.(3) Measures proposed to mitigate adverse effects of the project or program or an approved local Critical Area program or, if on State-owned lands, on the criteria set forth in COMAR 27.02.05.

Lastly, I have the following comments to offer regarding the information provided at this time:

- (1) Additional detail regarding the proposed project and its impacts should be provided to the Commission including;
 - a. Site area within the Critical Area
 - b. Existing impervious surface within the Critical Area
 - c. Total area of impervious surface after work is completed within the Critical Area
 - d. Area of limit of disturbance within the 100-foot Buffer, including the wetland mitigation area and basin excavation area
 - e. Total area of impervious surface within the 100-foot Buffer
- (2) Typically, when trees or vegetation are removed in the 100-foot Buffer, the Commission requests mitigation of 3:1 and expects replanting to occur in the Buffer. Additionally, while the proposed boat ramp and revetment work qualifies as water-dependent activities, the Commission also expects mitigation of 1:1 for new impervious surface and all areas of disturbance within the 100-foot Buffer for those activities.
- (3) Under COMAR 27.02.05, all applicable state and local permits must be obtained including any tidal and nontidal wetland permits, stormwater permits, and sediment and erosion control permits, prior to approval by the Critical Area Commission.

Once this information has been received and reviewed for completion, we may schedule this project for the Critical Area Commission agenda. The Critical Area Commission meets the first Wednesday of every month. Projects must be submitted one month prior to be scheduled on the agenda. I would be happy to meet with you and the Division of Planning and Zoning should you care to discuss these matters further. Please contact me if you have any questions or comments at 410-260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt". The signature is written in dark ink and is positioned above the typed name.

Kate Schmidt
Natural Resource Planner

Cc: Eric Sennstrom, Planning and Zoning



STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401

(410) 260-3460 Fax: (410) 974-5338

www.dnr.state.md.us/criticalarea/

May 18, 2007

Ms. Carla Fleming
Waterway Improvement Program
Maryland Department of Natural Resources
580 Taylor Avenue
Annapolis, Maryland 21401

Re: Elk River Park Boating Access Facility
Cecil County Department of Parks and Recreation

Dear Ms. Fleming:

Thank you for your letter of May 10, 2007 regarding proposed improvements at the above referenced site near Elkton, Maryland. It is our understanding that Cecil County Parks and Recreation is proposing a number of improvements at the park to be funded in partly through State Waterway grants and possibly USFWS Federal Assistance in Sportfish Recreation funding. Additionally, the project has obtained a reauthorized Board of Public Works permit for the work proposed.

Currently, this project is under review by Critical Area Commission staff to determine consistency with the Cecil County Critical Area Program. Nearly all of this property is within the Critical Area of Cecil County and designated as Resource Conservation Area (RCA). Therefore, prior to start of construction by Cecil County, the proposed project requires review by the Commission to determine consistency. At a minimum, the project must demonstrate that it can meet the following guidelines:

- Demonstrate all impacts to any Habitat Protection Areas are avoided, or in the case of access, minimized
- Provide stormwater management measures
- Provide sediment and erosion control measures
- Provide mitigation for any required clearing
- Demonstrate the proposed impervious area will not exceed the 15% threshold

Thank you for the opportunity to comment. If you have any questions, please contact me at (410) 260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt".

Kate Schmidt
Natural Resource Planner



MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Eric Schwaab, Deputy Secretary

May 10, 2007

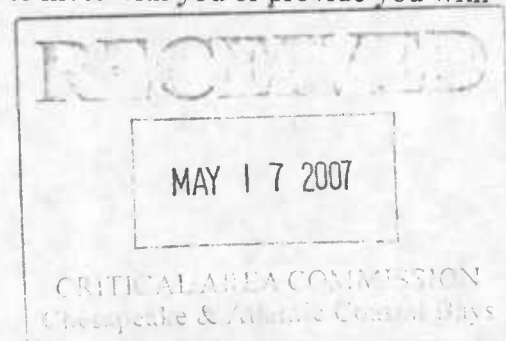
State of Maryland
Critical Area Commission
Chesapeake and Atlantic Coastal Bays
1804 West Street, Suite 100
Annapolis, MD 21401

RE: DNR CLEARINGHOUSE REVIEW – Project Proposal Enclosed for Review
“Elk River Park Boating Access Facility – Elkton, Maryland”

To Whom It May Concern:

The Maryland Department of Natural Resources was contacted a number of years ago by the Cecil County Government regarding their interest in redeveloping their property at the Elk River Park located less than two miles south of Elkton, Maryland on the Elk River. Over the years, the MD DNR Waterway Improvement Program has secured a number of State Waterway grants for the project and is in the process of submitting documentation requesting USFWS Federal Assistance in Sportfish Restoration funding for the project. The actions proposed will take place between July 1, 2007 and June 30, 2010. The actions proposed are described in the attached Wetlands License no. 98-1187. As part of the federal grant process, an Environmental Assessment (EA) was required for the project. The EA has been approved by the USFWS Federal Assistance office and was advertised in the Cecil Whig for a 30 day comment period. No comments were received from the public.

Please submit any comments you may have concerning this project within two weeks of the date of this letter. If no comments are received within two weeks, it will be understood that this project does not conflict with the programs, plans, or objectives of your Agency. If you require additional information before you can complete your review, please contact me and I'd be glad to meet with you or provide you with additional information.



Tawes State Office Building • 580 Taylor Avenue • Annapolis, Maryland 21401

410.260.8DNR or toll free in Maryland 877.620.8DNR • www.dnr.maryland.gov • TTY users call via Maryland Relay

CHECK ONE AND INITIAL

CHECK

INITIAL

1. The project does not conflict with the plans, programs or objectives of this Agency. _____
2. The project does not conflict with this Agency's plans, programs or objectives, but the attached comments are submitted for consideration. ✓ KLS
3. The project conflicts with this Agency's plans, programs or objectives for the reasons indicated on the attachment. _____

Upon completion of review, please return to my attention at DNR Waterway Improvement Program Division, Tawes State Office Building (E-4) Annapolis, MD 21401. Please call me at 410-260-8452 or e-mail me at cflaming@dnr.state.md.us if you should have any questions.

Sincerely,



Carla Fleming
Federal Project Coordinator
Waterway Improvement Program



STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS
1804 West Street, Suite 100, Annapolis, Maryland 21401
(410) 260-3460 Fax: (410) 974-5338
www.dnr.state.md.us/criticalarea

April 10, 2007

Mr. James Price, Director
Program Open Space
Tawes State Office Building
580 Taylor Avenue (E-4)
Annapolis, MD 21401

Re: POS#5116-7-221
Elk River Park Phase II, Cecil County

Dear Mr. Prince:

We are in receipt of the above referenced project to provide funding to construct a stone entrance road and multi-purpose athletic field at Elk River Park. Nearly all of this property is within the Critical Area of Cecil County and designated as Resource Conservation Area (RCA). Therefore, prior to start of construction by Cecil County, the proposed project will require review by the Critical Area Commission to determine if it is consistent with Cecil County Critical Area Program.

Cecil County has not yet provided us with a copy of a site plan for the proposed project and will need to submit a consistency determination to Commission staff for review and concurrence. If our office disagrees with a consistency determination, then the project will require Commission review and approval. In any case, the project must meet the following requirements:

- Demonstrate all impacts to any Habitat Protection Areas are avoided, or in the case of access, minimized
- Provide stormwater management measures
- Provide sediment and erosion control measures
- Provide mitigation for any required clearing
- Demonstrate the proposed impervious area will not exceed the 15% threshold

Thank you for the opportunity to comment. If you have any questions, please contact me at (410) 260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt".

Kate Schmidt
Natural Resource Planner

Cc: Mr. Eric Sennstrom, Cecil County Planning & Zoning Department

President William C. Manlove, District 1
Vice President Mark H. Guns, District 5
Commissioner Rebecca J. Demmler, District 2
Commissioner Brian Lockhart, District 3
Commissioner Wayne L. Tome, Sr., District 4



Alfred C. Wein, Jr.
County Administrator

Clyde VanDyke, Director
410.996.8102

County Information
410.996.5200
410.658.4041

CECIL COUNTY GOVERNMENT
Department of Parks and Recreation
200 Chesapeake Boulevard, Suite 1200, Elkton, MD 21921

February 20, 2008

Ms. Kate Schmidt
Natural Resources Planner
Critical Area Commission
1804 West Street, Suite 100
Annapolis, Maryland 21401

Re: Elk River Park – Planting Plan

Dear Ms. Schmidt:

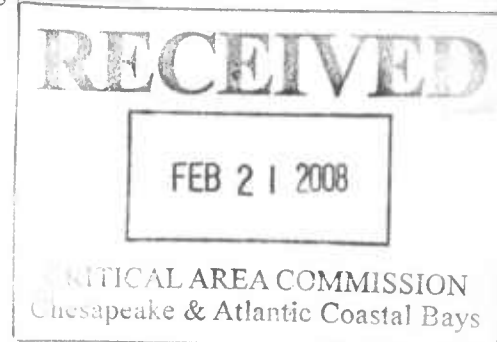
We are collecting proposals for contract management of the park's development, following this I hope we can bid the work. At this time I can only project a general time period when the required planting will be accomplished; however as soon as the general contractor is hired I will be in a better position to establish a more precise schedule.

Thank you and the Commission for your patience and understanding.

Sincerely,

A handwritten signature in cursive script that reads "Ed Slicer".

Edward W. Slicer, Jr.
Grants Administrator



*Reply to Cecil County Department of Parks and Recreation, County Administration
Building, 200 Chesapeake Blvd., Suite 1200, Elkton, Maryland 21921, Telephone: 410-
996-8104, Fax: 410-996-8105, E-mail: eslicer@ccgov.org*

Planting Agreement for State/Local Projects

State/Local Agency

Cecil County Department of Parks and Recreation

Project Number

CE270-07

Agency Contact

Ed Slicer

Phone Number

Commission Approval Date

December 5, 2007

CAC Planner

Kate Schmidt

Project Name

Elk River Park - Boat Ramp Redevelopment

Project Location

Elk River Park, Elkton, Maryland

Square Feet Cleared Outside 100ft Buffer

6,500 sq ft

Mitigation Ratio for Clearing Outside Buffer

1:1

Mitigation Calculation Outside Buffer

6,700

Square Feet Disturbed/Cleared Within Buffer*

33,706 sq ft / 2,512 sq ft

Mitigation Ratio for Disturbance/Clearing Within Buffer*

2:1 / 1:1

15% Afforestation Requirement Met?

Yes

Mitigation Calculation Within Buffer

69,927 sq ft

Total Mitigation Requirement

76,427 sq ft

Planting and Natural Regeneration Plan (attach additional sheets if necessary)

All required mitigation to be provided on site within the Critical Area. Approximately 36,218 sq ft to be located within the Buffer at Planting Area A and B, and remaining 49,321 square feet to be located at Planting Area C. Pocket Area of 0.62 acres to naturally regenerate. Mitigation Planting Plan on file dated 11/2/2007, revised 1/10/2008.

Planting Date

August - December

Year

2008

First Site Visit Date

Completed by

Second Site Visit Date

Completed By

Date Mitigation Complete

Edward W. Slicer, Jr.

Responsible Contact for Mitigation (Print)

Edward W. Slicer, Jr.
Signature

3/20/08
Date

270-07

President William C. Manlove, District 1
Vice President Mark H. Guns, District 5
Commissioner Rebecca J. Demmler, District 2
Commissioner Brian Lockhart, District 3
Commissioner Wayne L. Tome, Sr., District 4



Alfred C. Wein, Jr.
County Administrator

Administrator's Office
410.996.5203

County Information
410.996.5200
410.658.4041

CECIL COUNTY GOVERNMENT

Administrator's Office
200 Chesapeake Boulevard, Suite 2100, Elkton, MD 21921

February 1, 2008

Kate Schmidt, Natural Resource Planner
State of Maryland, Critical Area Commission
1804 West Street, Suite 100
Annapolis, MD. 21401

Re: Elk River Park Boat Ramp, Cecil County, Maryland, Buffer Mitigation

Dear Ms. Schmidt:


Pursuant to the request of the Maryland Critical Area Commission (CAC), Cecil County is submitting this letter to your office regarding the proposed use of a "pocket area" located in the proposed Elk River Park project. As you are aware, the County is proposing to construct a dual lane boat ramp on the Big Elk River. Along with the boat ramp, the project proposes a paved parking area, a paved overflow parking area, and a paved access road from River Bend Parkway.

Our engineering consultants, Andrews, Miller & Associates (AMA) and Herr Landscape Architecture and Environment Design have developed a Buffer Mitigation Plan for this project showing three areas that are to receive landscaping as mitigation for the boat ramp project. The three planting areas are situated adjacent the proposed development.

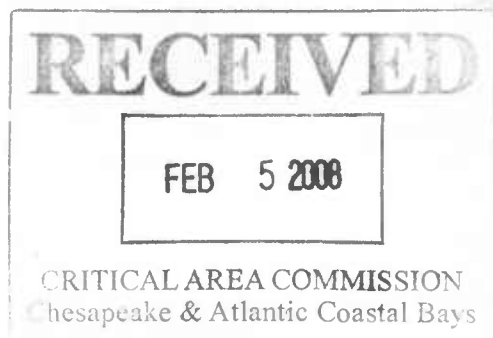
An open meadow area exists on the property just southeast of the proposed development. This open meadow area, or "pocket area", is shown in blue on the Critical Area Map Aerial Photograph Exhibit developed by AMA and previously forwarded to your office. At the request of CAC, the Board of County Commissioners of Cecil County (owner of property) agree to let this "pocket area" re-vegetate on its own. No mowing or maintenance plan will be performed thereby allowing the area to grow in naturally and connect the adjacent woodland areas.

Should you have any questions regarding this "pocket area" and/or this agreement, please contact our Department of Parks and Recreation at (410) 996-8104, attention Edward W. Slicer, Jr., Grants Administrator for the Department.

Sincerely,


Alfred C. Wein, Jr.
County Administrator

cc: Mr. Kelly Wright, Andrews, Miller & Associates





Herr Landscape Architecture &
Environmental Design
601 Locust Street, Suite 402
Cambridge, MD 21613
(410) 228-7468
(410) 228-1116 fax
herr@dmv.com

November 5, 2007

HAND DELIVERED

Ms. Kate Schmidt, Natural Resource Planner
State of Maryland, Critical Area Commission
1804 West Street, Suite 100
Annapolis, MD 21401

Re: Elk River Park Boat Ramp, Cecil County, Maryland
Critical Area Conditional Approval

Dear Kate:

Pursuant to our telephone conversation and your correspondence dated August 23, 2007, the enclosed materials are being provided for your review of the project for Conditional Approval.

The following permits and approvals have been received for the project:

- Cecil County Department of Public Works – Stormwater Management, Grading, Boat Ramp and Shoreline Improvements
- Cecil County Department of Public Works – Road and Storm Drain Plans
- Cecil Soil Conservation District – Erosion and Sediment Control
- MDE – Letter of Authorization – Tidal/Nontidal Wetlands
- State of Maryland – Board of Public Works – Wetlands License #98-1187

One set of the Buffer Mitigation Planting Plans – Sheets 1 through 4, dated November 2, 2007 is provided.

The following addresses the six points required for the project to be considered by the Critical Area Commission for conditional approval:

B. (1) The proposed site will provide water access that is unavailable in other areas of the County. While the entire site has over 38 acres within the Critical Area, a small portion lies within the 110' buffer. Due to the water dependent use of the proposed project, it can only occur within the buffer.

B. (2) The proposed project will provide a stabilized public boat launch area with minimal impact to the Critical Area buffer. The existing open grass area is being used for the project, with a minimal amount of woody vegetation being disturbed.

B. (3) The proposed boat launch project is a water dependent facility.

C. (1) Due to the existing vegetation onsite and the layout of the property, it is not possible to provide the 2:1 mitigation requirement within the 110' buffer area. There are open areas onsite that have been utilized for the mitigation area, thereby recreating woodland habitat within the Critical Area.

RECEIVED

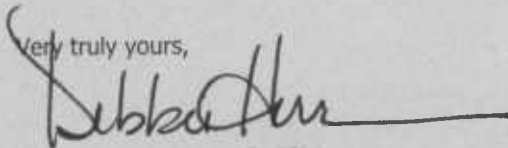
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CRITICAL AREA COMMISSION

C. (2) The project has been designed so as to conform with the Critical Area program to the maximum extent possible. The eroding shoreline will be stabilized and the boat launch area will be constructed within the buffer. A wetland mitigation area is being created within the 110' buffer to mitigate onsite the disturbance caused by the project. A minimum amount of pavement is being installed within the buffer area – the majority of paving for parking and accessibility is located outside of the buffer.

C. (3) As state previously, the project is being constructed within open or previously disturbed areas of the site, minimizing any disturbances to woody vegetation. Those same disturbed/open areas are being used to create woodland habitat areas, improving the quality of the Critical Area.

As you review the project, please contact me if you require any additional materials or if I may answer any questions.

Very truly yours,


Deborah Herr Cornwell, ASLA, RLA

enclosures

cc: Kelly Wright, AMA



CE 270-07

Herr Landscape Architecture &
Environmental Design

601 Locust Street, Suite 402

Cambridge, MD 21613

(410) 228-7468

(410) 228-1116 fax

herr@dmv.com

4533

August 14, 2007

Ms. Kate Schmidt, Natural Resource Planner
State of Maryland, Critical Area Commission
1804 West Street, Suite 100
Annapolis, MD 21401

Re: Elk River Park Boat Ramp, Cecil County, Maryland
Additional Information

Dear Kate:

Pursuant to our telephone conversation on Monday, August 13, 2007, I am providing the additional information requested to determine the mitigation requirements for the Elk River Park Boat Ramp Project.

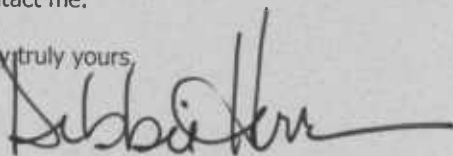
Enclosed please find a set of plans for Elk River Park – Sheets G-1 to G-5. A total of 10 trees are being removed as part of this project and are highlighted on Sheet G-5. Three trees are within the 110' buffer and seven are located in the Critical Area, outside of the buffer. On the plans you will note that three open areas have been designated as mitigation planting areas. No planting designs have been completed for these areas yet.

As requested in your correspondence dated May 30, 2007 and addressed to Mr. Ed Slicer, we are providing the following calculations for your review:

- The portion of the site lying within the Critical Area is 38.41 Acres
- The existing impervious areas within the Critical Area are 21,914 SF
- The total impervious area within the Critical Area at completion of the project will be 99,905 SF
- The total disturbed area within the 110' buffer (including the wetland mitigation and basin excavation areas) is 43,202 SF
- The total impervious area within the 110' buffer at the completion of the project will be 8,374 SF

I look forward to working with you to determine the mitigation requirements for this project and preparing an acceptable mitigation plan. If you have any questions, please do not hesitate to contact me.

Very truly yours,



Deborah Herr Cornwell, ASLA, RLA

enclosures

cc: Kelly Wright, AMA

STORMWATER MANAGEMENT, GRADING, BOAT RAMP & SHORELINE IMPROVEMENTS

for Elk River Park for Commissioners of Cecil County 3rd Election District Cecil County, Maryland

RECEIVED

NOV 5 2007

CRITICAL AREA COMMISSION

CECIL COUNTY DIVISION OF PUBLIC WORKS
Submitted and Approved For: _____
Date: _____
Approved: _____
Title: _____

GENERAL NOTES

- VERTICAL CONTROL BASED UPON PLANS PREPARED BY ANDREWS, MILLER & ASSOCIATES, INC. ENTITLED "DREDGING AND GREGGED MATERIAL PLACEMENT SITE AT ELK RIVER" DATED NOVEMBER 2005. DATUM SHOWN IS MVD 74.
- THE HORIZONTAL DATUM HEREON SHOWN IS BASED UPON THE PROPERTY LINES SHOWN ON A SURVEY PLAT ENTITLED "MORON SUBDIVISION, TOWNSHIP CORNER EAST, LOTS 1-4 AND ON-DAY DATED 1986. THIS DRAWING IS NOT INTENDED TO BE USED AS A PROPERTY LINE SURVEY.
- PUBLISHED MEAN TIDE RANGE IS APPROXIMATELY 1.7.
- TOPOGRAPHIC AND HYDROGRAPHIC DATA WAS OBTAINED BY ANDREWS, MILLER & ASSOCIATES, INC. FROM FIELD SURVEYS PERFORMED ON SEPTEMBER 27, NOVEMBER 2, 23 AND DECEMBER 11, 2005.
- ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBERING, THE 100 YEAR FLOOD ELEVATION IS 12' MVD 1929 DATUM. THE FLOOD LINE SHOWN ON THESE DRAWINGS WAS DERIVED FROM THE ABOVE MENTIONED FLOOD MAP.
- THE EXISTING UTILITIES SHOWN WERE TAKEN FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL CONTACT MISS UTILITY (1-800-387-7777) TO VERIFY THEIR EXACT LOCATION PRIOR TO THE START OF ANY CONSTRUCTION. ANY DAMAGE INCURRED TO ANY UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR RELIES ON THE UTILITY LOCATIONS SHOWN HEREON HE GOES SO AT HIS OWN RISK AND WILL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR REPAIR OF DAMAGED UTILITIES OR EXISTING SERVICES RESULTING FROM BAD RELIANCE.

- PUBLIC RIGHTS AND ALL OTHER RIGHT OF OWNERS SHALL BE KEPT FREE OF OBSTRUCTION EXCEPT FOR HEAVY TRUCK TRAFFIC DURING THE CONSTRUCTION PERIOD.
- IT SHALL BE INSTRUCTIVELY UNDERSTOOD THAT THIS PLAN TO REMAIN SPECIFICALLY FOR WORK WHICH HAS BEEN DESIGNED TO BE COMPLETED BY THE PROJECT AND WILL RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.

MINIMUM DESIGN & CONSTRUCTION CRITERIA FOR SWM PONDS EXEMPT FROM MD-378 POND CODE

- DESIGN FOR A STABLE OUTFALL USING THE 10 YEAR DESIGN STORM
- DAMPS SHALL MEET CLASS 4 DAM SAFETY HAZARD CLASSIFICATION
- PRINCIPAL SPILLWAY / DAMPS SHALL PROVIDE SATISFACTORY AUTOMATIC AND TRUCK-ROCK DESIGN
- THE 1% FLOOD OF PREVIOUS YEAR SHALL BE PROVIDED WITH THE DESIGN HIGH WATER FOR THE 10-YEAR STORM
- MATERIAL AND CONSTRUCTION SPECIFICATIONS FOR THE PRINCIPAL SPILLWAY SHALL BE IN ACCORDANCE WITH MD-078 CODE
- MATERIAL AND CONSTRUCTION SPECIFICATIONS FOR THE EMBRASMENT SHALL BE IN ACCORDANCE WITH MD-078 CODE. VERIFY THAT ALL MATERIALS FOR THE EMBRASMENT SHALL conform TO LIMITED SOIL CLASSIFICATION (SL, CL, IL, ML, CL, OH, SH, CL, MH, OH) AND NO CUTTING TREES IS REQUIRED.
- WEEDY VEGETATION IS PROHIBITED ON THE EMBRASMENT.

STATEMENT OF DETERMINATION OF MD 378

- STATEMENT OF DETERMINATION OF MD 378 EXEMPT FROM THE BARFOOT POND CODE
- PONDS ARE EXEMPTED
 - EMBRASMENT HEIGHT LESS THAN 4' POND 2 SWM EMBRASMENT HEIGHT 4-8' POND 1 SWM EMBRASMENT HEIGHT 4-8'
 - THE SPILLWAY AT TOP OF EMBRASMENT AT LEAST THREE FEET (3') POND 1 + FOUR FEET (4') AT BUTT. POND 2 FROM BOTTOM ELEV.

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS
REVIEWED AND APPROVAL RECOMMENDED:
Douglas G. Sipes
Deborah H. Wynn
DATE: _____

STORMWATER MANAGEMENT FACILITIES AS-BUILT CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN AND WORK DESCRIBED IN ACCORDANCE WITH THE 10 YEAR DESIGN AND SPECIFICATIONS FOR SWM PONDS UNDER THE BARFOOT POND CODE, OR CURRENT RECORD OR THEREON. I ALSO CERTIFY THAT ANY OTHER CONSTRUCTION REQUIREMENTS BASED ON THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SOIL CONSTRUCTION FROM PENNSYLVANIA AND MICHIGAN STATES.

DESIGNER: Andrew Miller & Assoc., Inc.
DATE: August 2007

SIGNATURE: _____ DATE: _____
NAME PRINTED: PROFESSIONAL ENGINEER
LICENSE TYPE: _____ LICENSE NO.: _____
PROFESSIONAL SEAL:



PROJECT: P&R 08-01



STORMWATER MANAGEMENT FACILITIES DEVELOPER / LANDOWNER'S CERTIFICATION

I, THE DEVELOPER, HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR OBSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THESE PLANS. I AM ALSO UNDERSTANDING THAT IT IS MY SOLE RESPONSIBILITY TO OBTAIN THE NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES, INCLUDING THE SUBMITTAL OF AS-BUILT PLANS BY A REGISTERED PROFESSIONAL ENGINEER WITHIN 90 DAYS OF COMPLETION OF WORK.

[Signature]
DATE: _____
Name: _____
Title: _____
Address: _____
Phone: _____

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN AND WORK DESCRIBED IN ACCORDANCE WITH THE 10 YEAR DESIGN AND SPECIFICATIONS FOR SWM PONDS UNDER THE BARFOOT POND CODE, OR CURRENT RECORD OR THEREON. I ALSO CERTIFY THAT ANY OTHER CONSTRUCTION REQUIREMENTS BASED ON THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SOIL CONSTRUCTION FROM PENNSYLVANIA AND MICHIGAN STATES.

[Signature]
DATE: _____
Name: _____
Title: _____
Address: _____
Phone: _____

SITE DATA
OWNER/DEVELOPER: _____
COMMISSIONER OF CECIL COUNTY DEPARTMENT OF PUBLIC WORKS AND RECREATION: _____
17 UNION ROAD
MORON, MD 21101
PROPOSED LAND USE: _____
100 SQ. FT. _____
OFFICIAL SEAL/REGISTRATION: _____

CONSTRUCTED MANAGEMENT FACILITIES - GENERAL NOTES FOR CONSTRUCTION PLANS

ALL STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SOIL CONSTRUCTION FROM PENNSYLVANIA AND MICHIGAN STATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATES, INCLUDING THE SUBMITTAL OF AS-BUILT PLANS BY A REGISTERED PROFESSIONAL ENGINEER WITHIN 90 DAYS OF COMPLETION OF WORK.

GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATES, INCLUDING THE SUBMITTAL OF AS-BUILT PLANS BY A REGISTERED PROFESSIONAL ENGINEER WITHIN 90 DAYS OF COMPLETION OF WORK.

- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
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- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

CONSULTING ENGINEERS AND SURVEYORS
Andrews, Miller & Assoc., Inc.
Main Office: 407 Academy Street, Suite 1
Cannonsville, Maryland 21022
Tel: 410-228-7777 Fax: 410-228-2732
Western Annapolis Office: 15 Old Stadiums Island Road, Suite 104
Annapolis, Maryland 21401
Tel: 410-297-1000 Fax: 410-297-1000
AAA JOB No. 040811-400 August 2007

INSPECTION SCHEDULE AND REPORTS

- THE DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT LEAST SEVEN DAYS BEFORE COMMENCEMENT OF WORK. THE DEPARTMENT SHALL BE NOTIFIED OF THE PROJECT'S LOCATION AND SPECIFICATIONS OF THE PROJECT WORK TO BE CONSTRUCTED.
- INSPECTIONS SHALL BE CONDUCTED BY THE DEPARTMENT OF PUBLIC WORKS ON THE APPROVED CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE PRESENT AT ALL INSPECTIONS TO PROVIDE NECESSARY INFORMATION AND TO ANSWER ANY QUESTIONS. INSPECTIONS SHALL BE CONDUCTED AT THE PROJECT'S LOCATION ON THE APPROVED WORK.
- INSPECTION SCHEDULE SHALL BE AS FOLLOWS:
a. THE DATE AND LOCATION OF THE PROJECT.
b. INSPECTION CONSTRUCTION AND STOPPAGE WITH THE APPROVED CONSTRUCTION PLAN.
c. ANY STOPPAGE FROM THE APPROVED CONSTRUCTION SCHEDULE.
d. ANY MATERIAL NOT LISTED.
- THE CONTRACTOR SHALL PROVIDE A REPORT TO THE DEPARTMENT OF PUBLIC WORKS AT THE END OF EACH INSPECTION. THE REPORT SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS OF THE END OF THE INSPECTION.
- THE CONTRACTOR SHALL PROVIDE A REPORT TO THE DEPARTMENT OF PUBLIC WORKS AT THE END OF EACH INSPECTION. THE REPORT SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS OF THE END OF THE INSPECTION.

FINAL LIST SHEETS:
1. LIST SHEET SHALL BE AS BUILT APPROVED BY THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS FOR THE WORK SHOWN THEREON. A LIST SHEET SHALL BE SUBMITTED TO THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS AT THE END OF EACH INSPECTION. THE LIST SHEET SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS OF THE END OF THE INSPECTION.

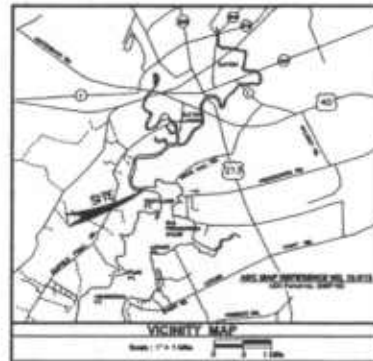


DATUM COMPARISONS

- DATUM INFORMATION WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TIDES FROM THE (CHESAPEAKE BAY) STATION (14-4-N-H-1-1970). TOTAL ADJUSTMENTS TO MEAN TIDE WERE CALCULATED FOR THE PROJECT SITE USING THE PUBLISHED TOTAL RANGE AT OLD FREIGHTWAY MARVEY.
- INDEX OF SHEETS**
 0-1 = COVER SHEET
 0-2 = FINAL GRADING PLAN - ENTRANCE ACCESS ROAD
 0-3 = STORMWATER MNGT. & FINAL GRADING PLAN - BOAT RAMP AREA
 0-4 = STORMWATER MNGT. & FINAL GRADING PLAN - OVERFLOW PARKING AREA
 0-5 = STORMWATER MNGT. NOTES & MISC. DETAILS
 0-6 = WALLHEAD AND RETENTION DETAILS
 0-7 = BOAT RAMP AND WINDY WALL DETAILS
 0-8 = PILE LAYOUT, PIER AND WINDY WALL DETAILS

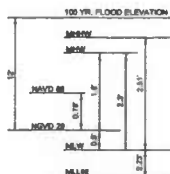
ROAD AND STORM DRAIN PLANS

for
Elk River Park
for
**Commissioners of Cecil County
3rd Election District
Cecil County, Maryland**



GENERAL NOTES

1. CONTRACTOR SHALL CONSULT A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE. THE FOLLOWING AGENCIES SHALL BE CONTACTED AT LEAST 48 HOURS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING:
 - THE APPROPRIATE DEPARTMENT OF THE GOVERNMENT: (P&R 08-01)
 - THE CECEL COUNTY DEPARTMENT OF PUBLIC WORKS INSPECTION DEPARTMENT. (P&R 08-01)
2. PRIOR TO ANY INSURE LAND DISTURBANCE, FORTY-EIGHT HOURS MINIMUM NOTICE SHALL BE GIVEN TO THE S.P.W. INSPECTION SECTION BY CONTACTING THE SHOP SUPERVISOR AT WHICH JOB APPROVED CONSTRUCTION METHODS WILL BE DEMONSTRATED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING COMPANIES TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION AND SHALL COORDINATE ALL CONSTRUCTION PHASES WITH THE UTILITY COMPANIES INVOLVED:
 - CECIL COUNTY P&R: (410) 303-2820
 - DELMARVA POWER: (410) 255-4500
 - M&E: (410) 346-5400
 - MS&L: (410) 303-2777
 - INDUSTRIAL TELEPHONE COMPANY: (410) 400-4511
4. FAILURE TO NOTIFY THE ABOVE AGENCIES PARTIAL MAY BEFORE THE OWNER, DEVELOPER AND/OR CONTRACTOR TO ANY OTHER WORK.
5. VERTICAL CURVES, BASED UPON PLANS PREPARED BY ANDREW MILLER & ASSOCIATES, INC. (A.M.I.) DRAWINGS AND SPECIFICATIONS, SHOWN ON THESE PLANS SHALL BE CONSIDERED TO BE CORRECT AND SHALL BE CONSIDERED TO BE USED AS A PROPERTY LINE SURVEY.
6. THE HORIZONTAL CURVES SHOWN ON THESE PLANS ARE BASED UPON A SURVEY PLAN ENTITLED "ROAD SURVEY, NORTH FROM LANDS EAST, LOTS 14 & 15 OF DIV. 2746, AND DRAWING IS NOT INTENDED TO BE USED AS A PROPERTY LINE SURVEY.
7. TOPOGRAPHIC AND HYDROGRAPHIC DATA WAS OBTAINED BY ANDREW MILLER & ASSOCIATES, INC. PROFESSED SURVEYER REGISTERED ON SEPTEMBER 27, NOVEMBER 2, IN AND SUSSEX, DE.
8. ALL WORK PERFORMED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH CECIL COUNTY ROAD CODE AND STANDARD SPECIFICATIONS CONSTRUCTION OF THIS PROJECT SHALL COVER THE FULL LENGTH OF THESE PLANS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
10. THE EXISTING UTILITIES SHOWN HEREIN SHALL BE THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL CONTACT MS&L (410) 303-2777 TO VERIFY THE EXACT LOCATION PRIOR TO THE START OF ANY CONSTRUCTION. ANY CHANGES REQUIRED TO ANY UTILITIES SHALL BE RECORDED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR FAILS TO VERIFY THE EXACT LOCATION BEFORE BEGINNING WORK, HE SHALL BE RESPONSIBLE TO DO SO AT HIS OWN RISK AND SHALL BE ENTITLED TO ADDITIONAL COMPENSATION FOR REMEDIATION COSTS INCURRED AS A RESULT OF SUCH WORK.
11. IT SHALL BE STRICTLY UNDERSTOOD THAT THIS PLAN IS INTENTIONAL AND WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
12. THE DESIGN REVISIONS WILL BE LISTED AT THE PRE-CONSTRUCTION MEETING.
13. THE CONTRACTOR IS TO CLEAN AND AREA WORK BY HAND.
14. WIDTHS REQUIRED BY SPECIFICATIONS, ORDINANCES OR OTHER SPECIFIC CONDITIONS, UNLESS OTHERWISE SHOWN SHALL BE MINIMUM WIDTHS. A BATCH NUMBER IDENTIFIED UNDERNEATH PIPE MEETS CECIL COUNTY STANDARD SPECIFICATIONS ROAD CODE SECTION 4.8.1.1.
15. STORM DRAIN PIPES, MANHOLES, AND BROADCASTS ARE NOT TO BE CONSTRUCTED UNTIL, EXISTENT AND EXISTING CONTROL ELEVATIONS ARE SURVEYED AND APPROVED BY THE CECEL COUNTY P&R, CONSTRUCTION DIVISION.
16. EXISTING SURFACE GRADE SHALL BE SURVEYED AT EACH P&R. A TACK SHALL BE REQUIRED BEFORE PAVEMENT COURSE IS LAIN.
17. ALL STORM DRAIN AREAS AS A RESULT OF ROADWAY AND STORM DRAIN CONSTRUCTION SHALL BE SEEDING AND MULCHING WITHIN FOURTEEN (14) DAYS AFTER COMPLETION.
18. PUBLIC ROADS AND ALL OTHER RIGHT-OF-WAYS SHALL BE KEPT FREE OF SEDIMENT DEPOSITS LEFT FROM HEAVY TRUCK TRAFFIC LEAVING THE CONSTRUCTION SITE.
19. GRADES TO ACCOMMODATE BY THE COUNTY ARE SHOWN. ALL GRADES AND ELEVATIONS SHALL BE SHOWN AND MARKED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL, REVISED EDITION, SECTION 4.10. AS REQUIRED BY THE COUNTY OR TRAFFIC ENGINEER.
20. ALL INLETS AND MANHOLES SHALL BE BACKFILLED WITH A 20% STABILIZED GRAVEL OR OTHER APPROPRIATE MATERIAL. THE SPECIFICATION OF THE MATERIAL SHALL BE DETERMINED BY THE COUNTY. THE CONTRACTOR SHALL VERIFY THE STABILITY OF THE MATERIAL. CECIL COUNTY RECORDS OFFICE SHALL BE CONTACTED TO VERIFY THE STABILITY OF THE MATERIAL. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL GEOTECHNICAL INFORMATION CONCERNING THE STABILITY OF THE MATERIAL TO THE COUNTY RECORDS OFFICE.
21. ALL STORM DRAIN PIPE JOINTS SHALL BE WRAPPED IN FELT CLOTH TO SEAL THESE JOINTS. TENSURE
22. ALL SPECIAL REVISIONS SHALL BE MAINTAINED BY AN ACCEPTABLE CONTRACTOR BY AND BY THE EXPENSE OF THE CONTRACTOR FOR A PERIOD OF 12 MONTHS FOLLOWING THE DATE OF CONSTRUCTION ACCEPTANCE OF THE STORM DRAIN CODE (S.D.C.).
23. THE CONTRACTOR SHALL VERIFY MANUFACTURERS (SHOP DRAWINGS) FOR ALL COMPONENTS OF THE STORM DRAIN SYSTEM. EXISTING SHOWN HEREON. THE SHOP DRAWINGS MUST REFLECT INFORMATION AS FOLLOWS: JOB NAME, COMPANY IDENTIFICATION, PROJECT NUMBER, ADDRESS NUMBER AND APPROVAL, AND SIGNATURE OF EACH FIRM APPLICABLE TO COMPONENT IDENTIFICATION. PROVIDE DRAWING CALCULATIONS FOR EACH COMPONENT. THE DRAWINGS OF RECORD APPROVED DRAWINGS MUST BE SENT TO CECIL COUNTY DEPARTMENT OF PUBLIC WORKS, ATTN: CONSTRUCTION INSPECTION DIVISION, AT LEAST 100 HOURS PRIOR TO THE PROJECT START DATE OF ANY COMPONENT. APPROVED SHOP DRAWINGS MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO START OF COMPONENTS.



DATUM COMPARISONS

SCALE: NONE
 DATUM INFORMATION WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TAKEN FROM THE CHESAPEAKE CITY STATION (STATION ID 887382). Tidal Adjustments to MLLW and MHHW WERE CALCULATED FOR THE PROJECT SITE USING THE PUBLISHED TIDAL NUMBER AT OLD FRESHWATER WHARF.

PROJECT: P&R 08-01

INDEX OF SHEETS

- RD-1 = COVER SHEET
- RD-2 = PLAN AND PROFILE - ENTRANCE ACCESS ROAD
- RD-3 = PARKING, LINE PAINTING, AND STAKEOUT PLAN
- RD-4 = ROAD AND PARKING DETAILS
- RD-5 = STORM DRAIN PROFILES AND DETAILS

AS-BUILT CERTIFICATION	
I HEREBY CERTIFY THAT WORK SHOWN ON THESE PLANS HAS BEEN CONSTRUCTED AS SHOWN IN RED HEREON. I ALSO CERTIFY THAT THIS WORK, AS CONSTRUCTED, IS IN COMPLIANCE WITH THE PLANS AND MEETS THE REQUIREMENTS OF THE CECIL COUNTY ROAD CODE AND STANDARD SPECIFICATIONS. I CANNOT CERTIFY TO THE MATERIALS USED OR THE CONSTRUCTION METHODS AND SPECIFICATIONS UTILIZED DURING CONSTRUCTION WHICH WERE INSPECTED BY THE GEOTECHNICAL ENGINEER.	
DESIGNED BY	NAME
DRAWN BY	PROFESSIONAL LICENSE NO.
ADDRESS	LICENSE TYPE
FORM NUMBER	
CECIL COUNTY DEPARTMENT OF PUBLIC WORKS	
REVIEWED AND APPROVAL RECOMMENDED:	
<i>Debra McMillan</i>	8/28/07
PLAN REVIEWER	DATE
<i>Matthew White</i>	9/24/07
APP. PLAN REVIEWER	DATE
OWNER/DEVELOPER CERTIFICATION	
I HEREBY CERTIFY THAT ALL NECESSARY GRADING, CONSTRUCTION AND/OR DEMOLITION HAS BEEN COMPLETED TO THESE PLANS AND ALSO UNDERTAKEN THAT IT IS MY RESPONSIBILITY TO HAVE THE CONSTRUCTION INSPECTED AND CERTIFIED, INCLUDING THE SUBMITTAL OF AS-BUILT PLANS, BY A REGISTERED PROFESSIONAL ENGINEER WITHIN 30 DAYS OF COMPLETION OF WORK.	
<i>Matthew White</i>	DATE
CHECKED BY	SIGNATURE
DATE	DATE
Commissioner of Cecil County and Cecil County Department of Public Works	
17 Wilson Road, P.O. Box 21911, Fiskeville, MD 21030-2191	
ADDRESS	
SITE DATA	
OWNER:	COMMISSIONERS OF CECIL COUNTY
DEVELOPER:	CECIL COUNTY DEPARTMENT OF PAVES AND RECREATION 17 WILSON ROAD FISKEVILLE, MD 21911
ENGINEER:	ANDREW MILLER & ASSOC., INC. 461 ACADEMY STREET CAMBRIDGE, MD 21613 410-228-7117
PREPARED LAND USE:	PARK AND BOAT RAMP
TAX MAP REF.:	MAP 322, GRID T3, PARCEL 161
CRITICAL AREA DESIGNATION:	CA
COVER SHEET	
RD-1	

CONSULTING ENGINEERS AND SURVEYORS

Andrews, Miller & Assoc., Inc.

John D. Hughes & Assoc., Inc.
 Consulting Engineer
 22189 Belton-Randolph
 Scalesby, Maryland 21801
 410-545-6622

Main Office:
 401 Academy Street, Suite 1
 Cambridge, Maryland 21613
 Tel. 410-228-7117 * Fax 410-228-2735

Western Area Office:
 15 Old Solomons Island Road, Suite 104
 Annapolis, Maryland 21401 Tel.
 410-991-1004 * Fax 410-997-1005

Ronald D. Goltzer
 Environmental Consultants, Inc.
 20719 Wood Creek Road
 P.O. Box 626
 Trappe, Maryland 21153
 410-476-6561

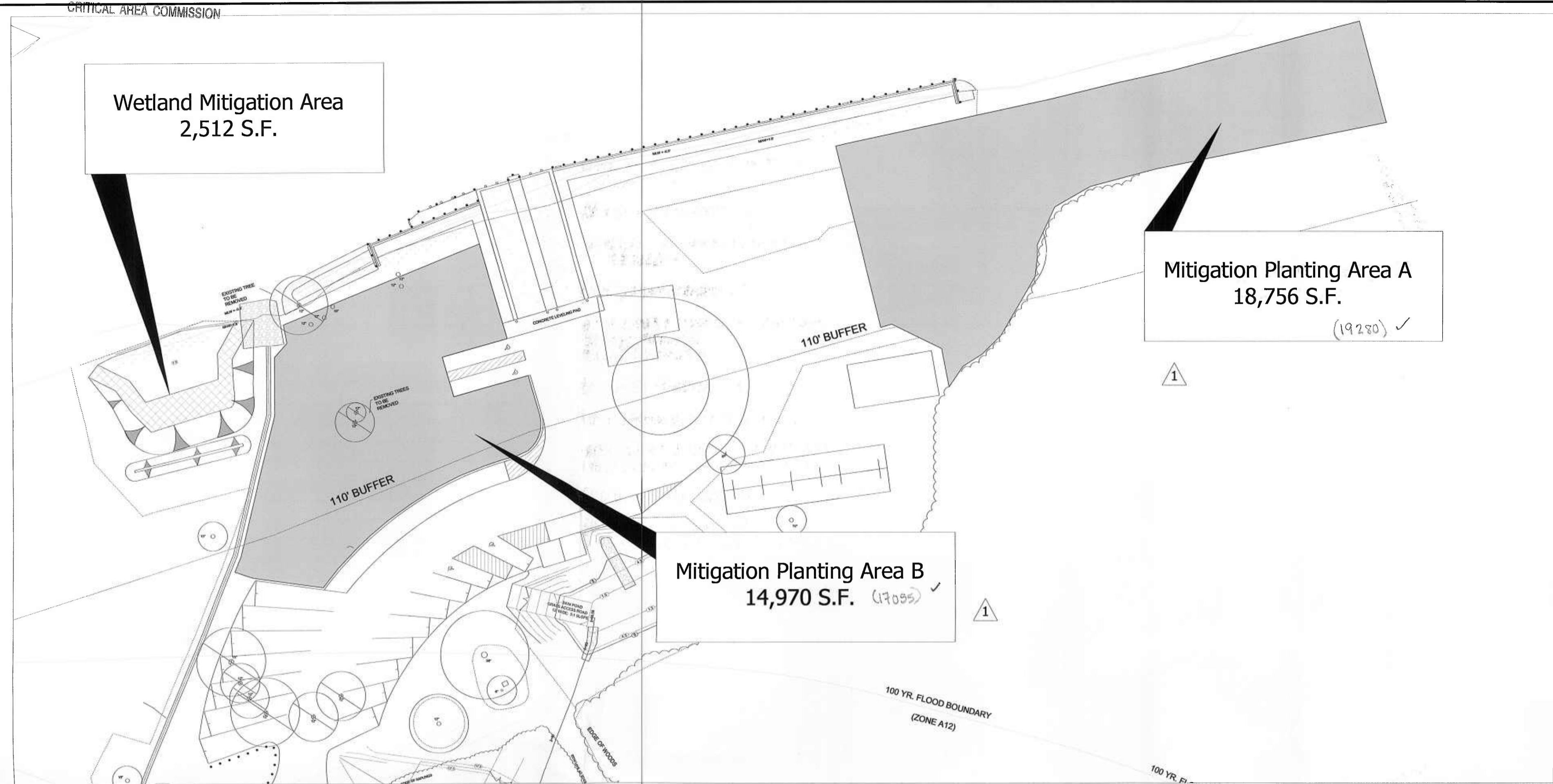
AMA JOB No. 04061.400

August 2007

RECEIVED

JAN 23 2008

CRITICAL AREA COMMISSION



Area of Disturbance within 110' Buffer for Boat Ramp Project = 33,706 S.F. $\Delta 2512 = 36218$

2:1 Mitigation Required = 67,412 S.F.

Area of Disturbance within 110' Buffer for Wetland Construction = 2,512 S.F.

1:1 Mitigation Required = 2,512 S.F.

Disturbance and Removal of 7 trees and 6,500 S.F. of woodland scrub/shrub vegetation = 7 trees + 6,500 S.F.

1:1 Mitigation Required = 6,500 S.F.

Mitigation required for Carpenter's Point Project = 2,700 S.F.

Total Mitigation required for Elk River Park Project = 76,424 S.F.
Mitigation required for Carpenter's Point Project = 2,700 S.F.

Total Mitigation Required = 79,124 S.F.

Total Mitigation Provided = 85,559 S.F. (81485) ✓
Total Mitigation Provided within buffer = 36,238 S.F. 36218 ✓

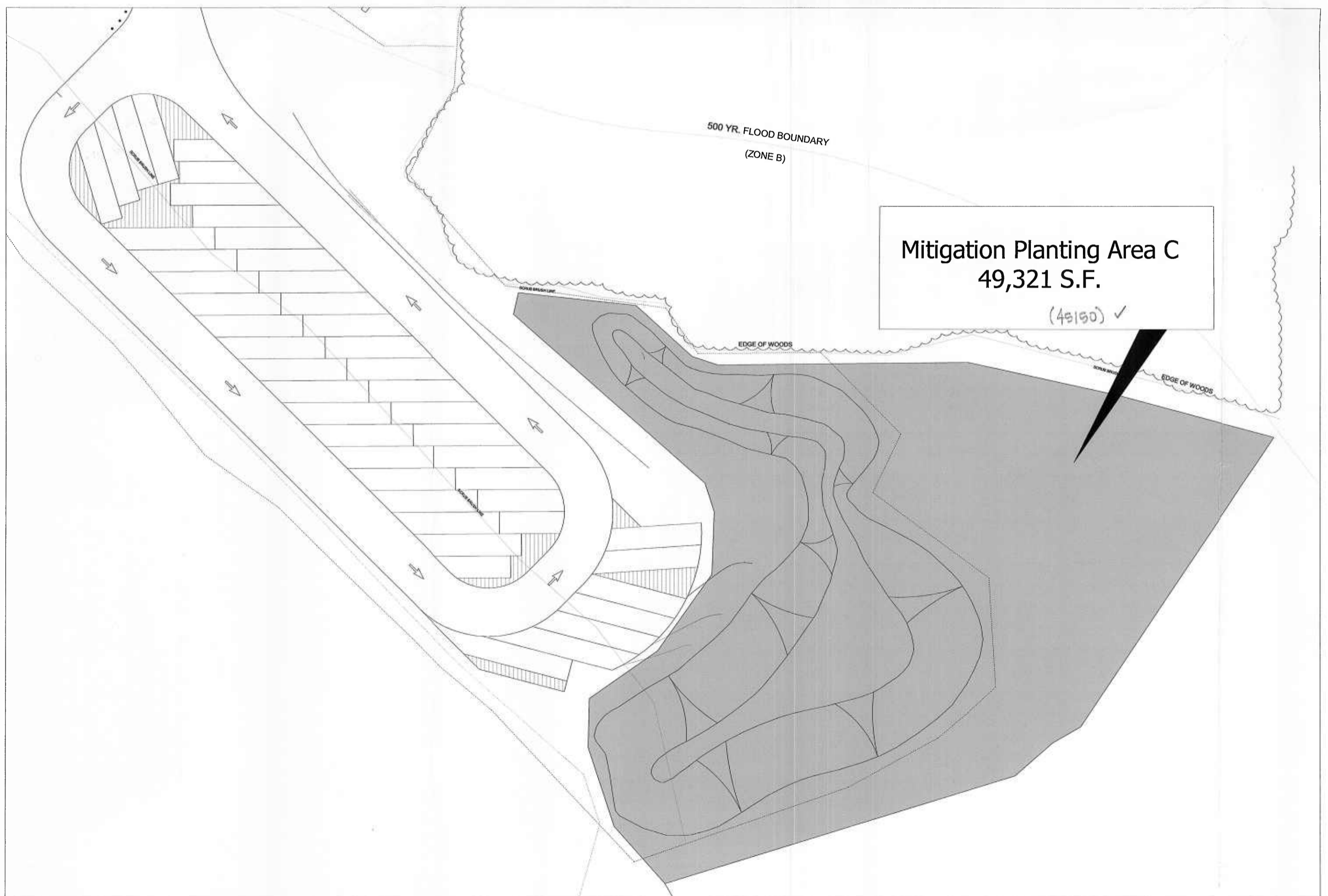
Mitigation Req'd in Buffer
 Boat Ramp Lot = 33706
 Wetland Lot = 2512
 26218

Provided: 36218 ✓

Overall Mit. Req'd:
 2:1 67412
 WL 2512
 DPW 2700
 Forest 6500
 79124
 + 7 trees
 79824

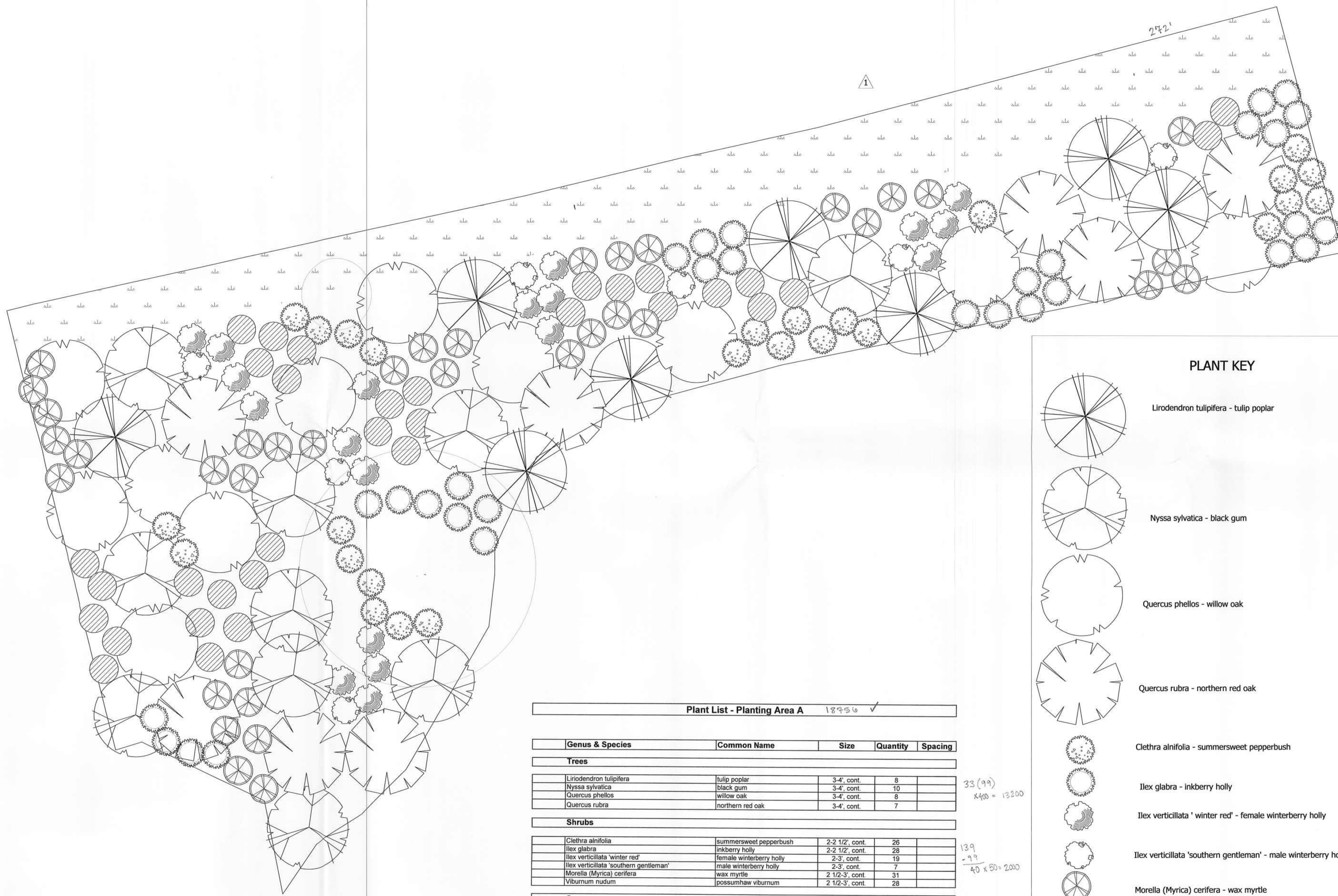
Provided: 81485 ✓

+ 0.62 ac
 Natural regeneration

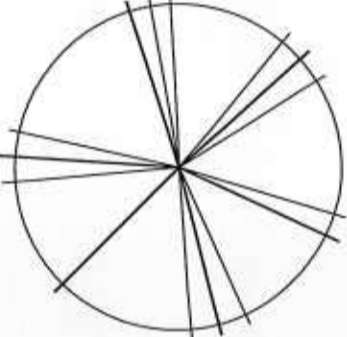
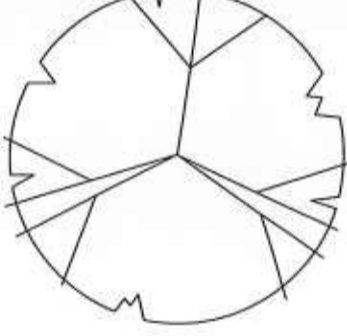
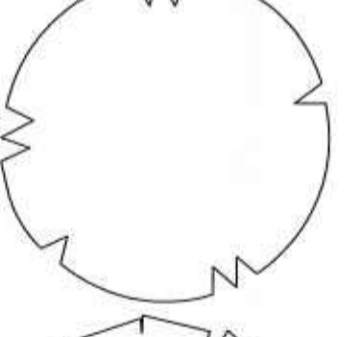
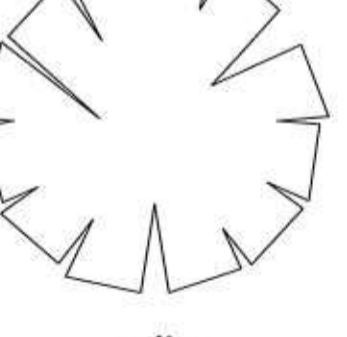


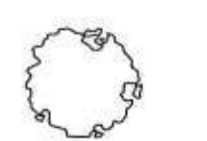






RECEIVED
JAN 23 2008
CRITICAL AREA COMMISSION

No.	Date	Revisions / Submissions
1	1.10.08	Revised planting
Design Firm Herr Landscape Architecture 601 Locust Street, Suite 402 Cambridge, MD 21613 410.228.4533 410.228.1116 fax		
Project Title Elk River Park Boat Ramp Project Cecil County, Maryland		
Drawing Title Buffer Mitigation Plan Key Map		
Project Manager	Project ID	Elk River Park
Drawn By	Scale	1" = 40'
Reviewed By	Drawn By	dsh
Date		11.2.07
CAD File Name		key
		1 of 4



PLANT KEY

-  Liriodendron tulipifera - tulip poplar
-  Nyssa sylvatica - black gum
-  Quercus phellos - willow oak
-  Quercus rubra - northern red oak
-  Clethra alnifolia - summersweet pepperbush
-  Ilex glabra - inkberry holly
-  Ilex verticillata 'winter red' - female winterberry holly
-  Ilex verticillata 'southern gentleman' - male winterberry holly
-  Morella (Myrica) cerifera - wax myrtle
-  Viburnum nudum - possumhaw viburnum
-  Mix of Andropogon virginicus (broom sedge), Panicum virgatum (switch grass) and Tripsacum dactyloides (Eastern gama grass)

Plant List - Planting Area A 18956 ✓

Genus & Species	Common Name	Size	Quantity	Spacing
Trees				
Liriodendron tulipifera	tulip poplar	3-4', cont.	8	
Nyssa sylvatica	black gum	3-4', cont.	10	
Quercus phellos	willow oak	3-4', cont.	8	
Quercus rubra	northern red oak	3-4', cont.	7	
Shrubs				
Clethra alnifolia	summersweet pepperbush	2-2 1/2', cont.	26	
Ilex glabra	inkberry holly	2-2 1/2', cont.	28	
Ilex verticillata 'winter red'	female winterberry holly	2-3', cont.	19	
Ilex verticillata 'southern gentleman'	male winterberry holly	2-3', cont.	7	
Morella (Myrica) cerifera	wax myrtle	2 1/2-3', cont.	31	
Viburnum nudum	possumhaw viburnum	2 1/2-3', cont.	28	
Grasses				
Andropogon virginicus	broom sedge	DP38 plugs	198	2.5' O.C.
Panicum virgatum	switchgrass	DP38 plugs	198	2.5' O.C.
Tripsacum dactyloides	Eastern gama grass	DP50 plugs	198	2.5' O.C.

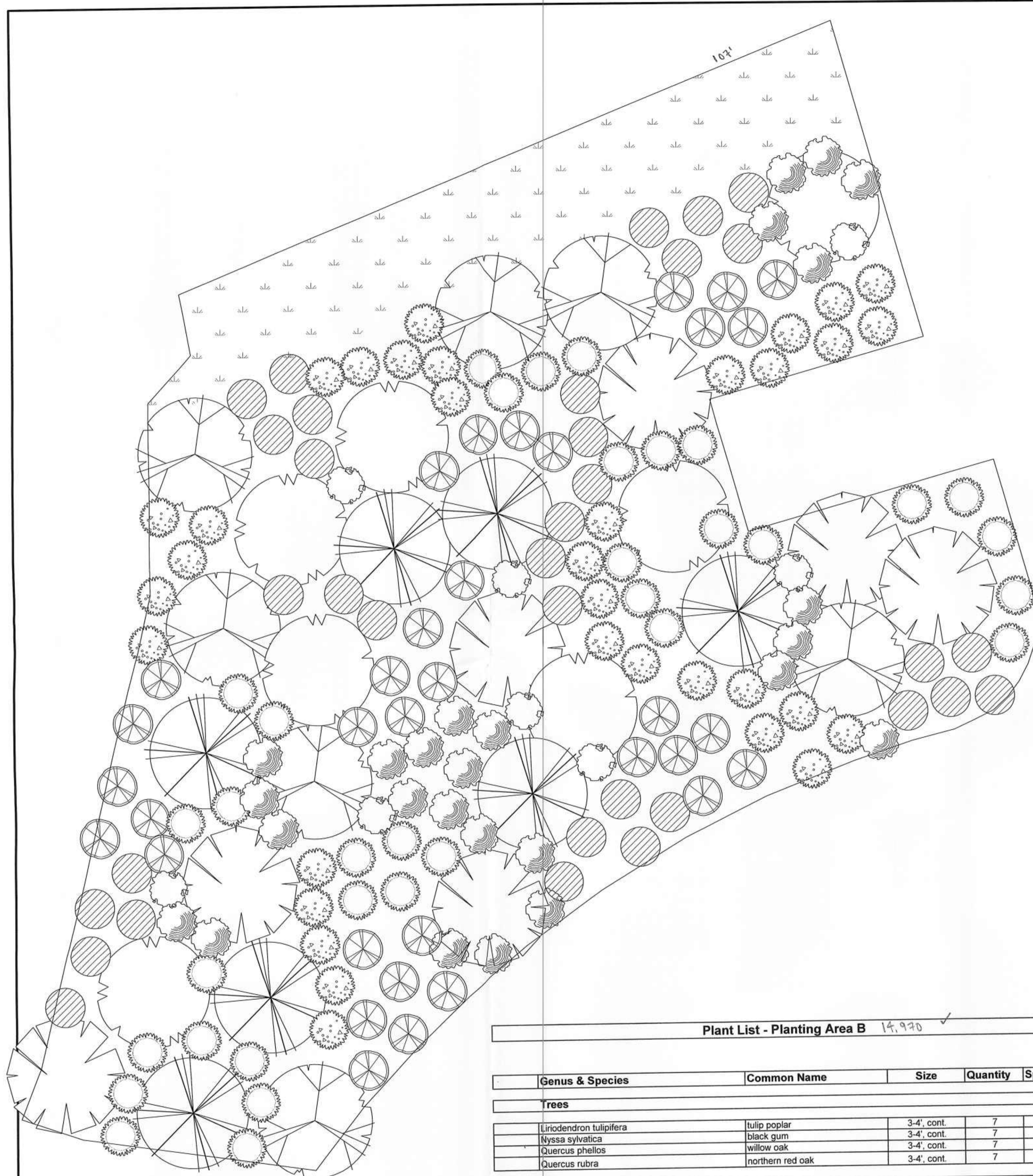
33 (99)
x400 = 13200

139
-99
40 x 50 = 2000

4080 (292 x 13)

Total: 19280

1	1.10.08	Revised planting
No.	Date	Revisions / Submissions
		
Design Firm: Herr Landscape Architecture 601 Locust Street, Suite 402 Cambridge, MD 21613 410.228.4533 410.228.1116 fax		
Project Title: Elk River Park Boat Ramp Project Cecil County, Maryland		
Drawing Title: Mitigation Planting Plan Planting Area A		
Project Manager	Project ID	Elk River Park
Drawn By	Scale	1" = 10'
Reviewed By	dsh	Drawing No. 2
Date	11.2.07	of 4
CAD File Name	areaA	



Plant List - Planting Area B 14,970

Genus & Species	Common Name	Size	Quantity	Spacing
Trees				
Liriodendron tulipifera	tulip poplar	3-4', cont.	7	
Nyssa sylvatica	black gum	3-4', cont.	7	
Quercus phellos	willow oak	3-4', cont.	7	
Quercus rubra	northern red oak	3-4', cont.	7	
Shrubs				
Clethra alnifolia	summersweet pepperbush	2-2 1/2', cont.	34	
Ilex glabra	inkberry holly	2-2 1/2', cont.	34	
Ilex verticillata 'winter red'	female winterberry holly	2-3', cont.	26	
Ilex verticillata 'southern gentleman'	male winterberry holly	2-3', cont.	7	
Morella (Myrica) cerifera	wax myrtle	2 1/2-3', cont.	34	
Viburnum nudum	possumhaw viburnum	2 1/2-3', cont.	34	
Grasses				
Andropogon virginicus	broomsedge	DP38 plugs	97	2.5' O.C.
Panicum virgatum	switchgrass	DP38 plugs	97	2.5' O.C.
Tripsacum dactyloides	Eastern gama grass	DP50 plugs	97	2.5' O.C.

PLANT KEY

- Liriodendron tulipifera - tulip poplar
- Nyssa sylvatica - black gum
- Quercus phellos - willow oak
- Quercus rubra - northern red oak
- Clethra alnifolia - summersweet pepperbush
- Ilex glabra - inkberry holly
- Ilex verticillata 'winter red' - female winterberry holly
- Ilex verticillata 'southern gentleman' - male winterberry holly
- Morella (Myrica) cerifera - wax myrtle
- Viburnum nudum - possumhaw viburnum
- Mix of Andropogon virginicus (broom sedge), Panicum virgatum (switch grass) and Tripsacum dactyloides (Eastern gama grass)

Notes:

Site Preparation

- Planting areas to be graded pursuant to Engineering plans.
- Soils shall be kept free of waste material and debris.
- Remove sticks, rubbish and other extraneous matter.

General Requirements

- All plants shall be true to type and name, have normal well developed branch structure with a vigorous root system and be healthy vigorous plants free from defects, injuries and all forms of infestations.
- All plant material shall be consistent with the guidelines published by the American Association of Nurserymen Standards for Nursery Stock.
- The Contractor shall provide container grown plants as specified in the plant list. Do not bend or bind-tie trees or plants in such a manner as to damage bark, break branches or destroy natural shape. Provide protective covering during delivery, and insure that all materials are handled properly and are not dropped.
- All plant materials shall be protected from drying out and from wind damage during delivery.
- The Contractor shall deliver trees and plant after preparations for planting have been completed and plant immediately. If planting is delayed after delivery, set trees and plants in shade, protect from weather and mechanical damage, and keep roots moist by covering with mulch, burlap or other acceptable means of retaining moisture. Water as necessary.
- The Contractor shall not remove container grown stock from container until planting time.
- All materials shall be stored in upland areas that are protected from weather.
- The Contractor shall proceed with and complete landscape work as rapidly as portions of site become available, working within seasonal limitations for each kind of landscape work required.
- The Contractor shall determine location of any underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required.

Installation - Planting

- Layout - All trees, shrubs and herbaceous materials shall be laid out in random and naturalistic arrangements as shown on the landscape plans.
- Remove any rock, rubble or other underground obstructions to the depth necessary to permit proper planting.
- Remove and dispose of all excess excavations and unsuitable materials. Dispose in accordance with all local laws and regulations at Contractor's cost.
- Plant all plants to the same depth as their place of growth, unless otherwise directed. Center the plants in their planting pits. Set in the natural upright position at such a level that, after settlement, a normal or natural relationship of the crown of the plant with the ground surface shall be established. Be careful not to exert any pressure that will damage any portion of the plant.
- Avoid compacting the soil. As clay soils are particularly prone to compaction - especially if worked wet - transplant into clay soils when they are not saturated to the greatest extent possible. Do not leave plants exposed to sun or wind prior to planting. Take special care to avoid desiccation of fibrous-rooted plants.

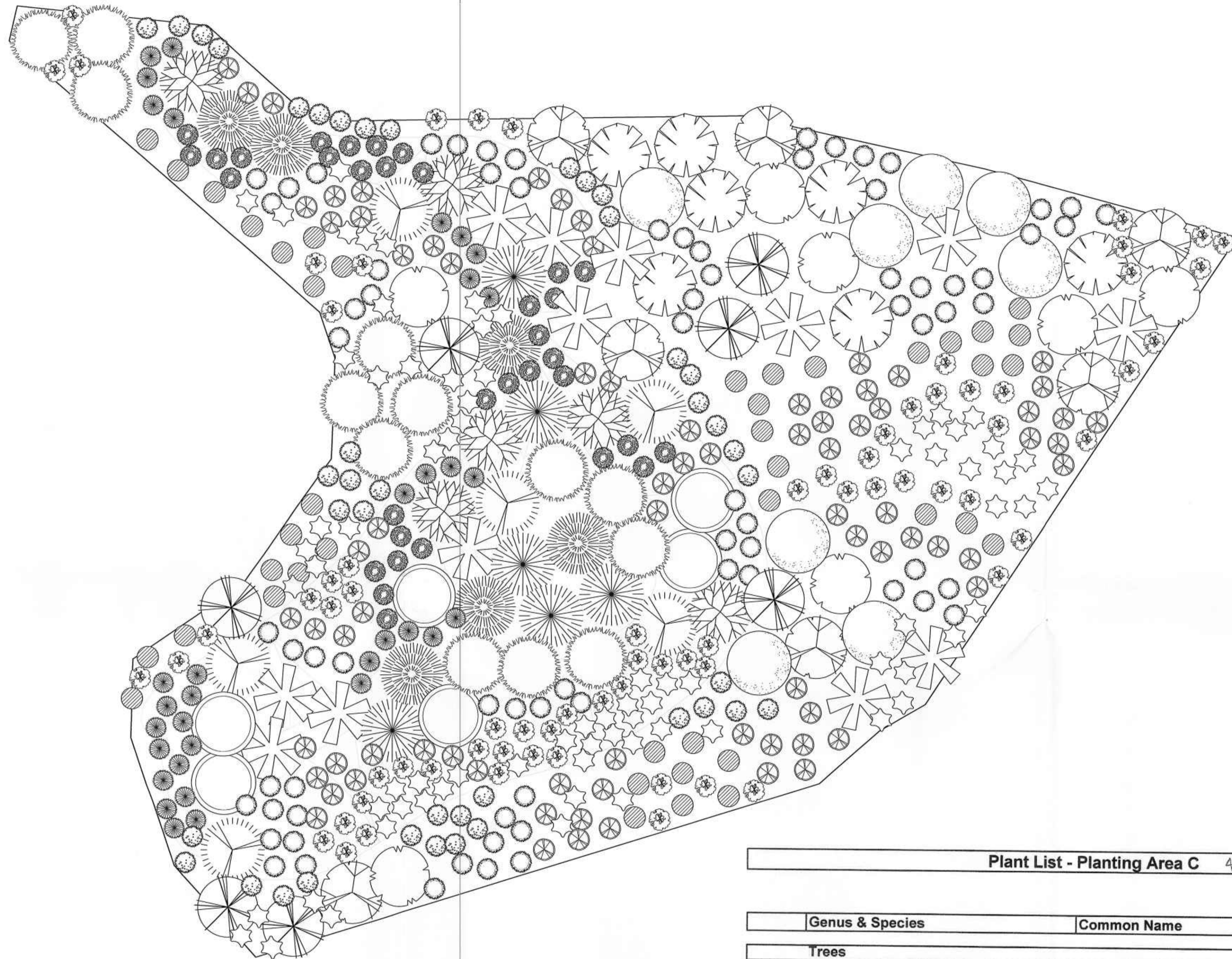
Planting Trees and Shrubs

- Container - Cut containers on 2 sides with an approved can cutter and remove plant from container. Set container grown stock as specified. If container grown plant is root-bound or can be easily pulled from container, plant shall be rejected. Place plant and carefully work soil mix around roots by hand.
- Provide a 2" layer of shredded hardwood mulch for all plants. Do not place mulch within 6" of trunks, nor should the base of shrubs and other plants be covered by mulch.
- Prune, thin out and shape trees in accordance with standard horticultural practice. Do not cut tree leaders and remove only injured or dead branches, if any. Prune plant material to retain natural character. The top of the root ball of the plant shall be level with the substrate surface. Excess substrate shall be distributed around the planting sites. No saucers shall be constructed around the planting sites with the excess substrate.

Grass Plug Planting

- Plugs shall be installed at 2.5' O.C. spacings, randomly grouping the species within the grass areas. Provide a 2" layer of shredded hardwood mulch for each plug.

1.10.08		Revised planting/planting notes
No.	Date	Revisions / Submissions
Design Firm: Herr Landscape Architecture 601 Locust Street, Suite 402 Cambridge, MD 21613 410.228.4533 410.228.1116 fax		
Project Title: Elk River Park Boat Ramp Project Cecil County, Maryland		
Drawing Title: Mitigation Planting Plan Planting Area B		
Project Manager	Project ID: Elk River Park	
Drawn By: DSH	Scale: 1" = 10'	
Reviewed By: dsh	Drawing No. 3	
Date: 11.2.07	of 4	
CAD File Name: areaB		



Plant List - Planting Area C 49321

Genus & Species	Common Name	Size	Quantity
Trees			
<i>Carya glabra</i>	pignut hickory	3-4', cont.	6
<i>Crataegus crusgalli</i>	cockspur hawthorne	3-4', cont.	6
<i>Juniperus virginiana</i>	eastern red cedar	3-4', cont.	13
<i>Liriodendron tulipifera</i>	tulip poplar	3-4', cont.	7
<i>Liquidambar styraciflua</i>	sweetgum	3-4', cont.	8
<i>Nyssa sylvatica</i>	black gum	3-4', cont.	6
<i>Pinus virginiana</i>	Virginia pine	3-4', cont.	6
<i>Quercus coccinea</i>	scarlet oak	3-4', cont.	6
<i>Quercus phellos</i>	willow oak	3-4', cont.	7
<i>Quercus rubra</i>	northern red oak	3-4', cont.	6
<i>Quercus velutina</i>	black oak	3-4', cont.	6
<i>Sassafras albidum</i>	sassafras	3-4', cont.	13



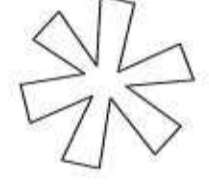
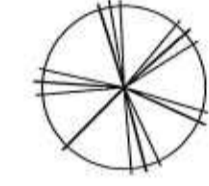
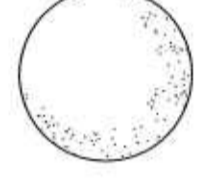

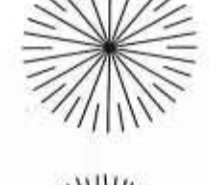
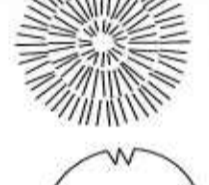


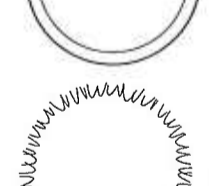









Shrubs			
Genus & Species	Common Name	Size	Quantity
<i>Aralia spinosa</i>	devil's walking stick	2-3', cont.	34
<i>Clethra alnifolia</i>	summersweet pepperbush	2-2 1/2', cont.	42
<i>Ceanothus americanus</i>	New Jersey tea	2-2 1/2', cont.	34
<i>Ilex glabra</i>	inkberry holly	2-2 1/2', cont.	76
<i>Morella (Myrica) cerifera</i>	wax myrtle	2 1/2-3', cont.	79
<i>Photinia (Aronia) melanocarpa</i>	black chokeberry	2-3', cont.	72
<i>Rhus copallina</i>	winged sumac	2-3', cont.	74
<i>Viburnum nudum</i>	possumhaw viburnum	2 1/2-3', cont.	42

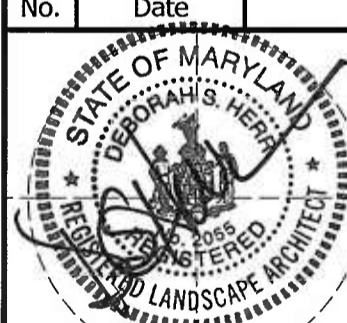
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x 400 =
36,000

453
-230
123 x 50 =
9150

49150

PLANT KEY

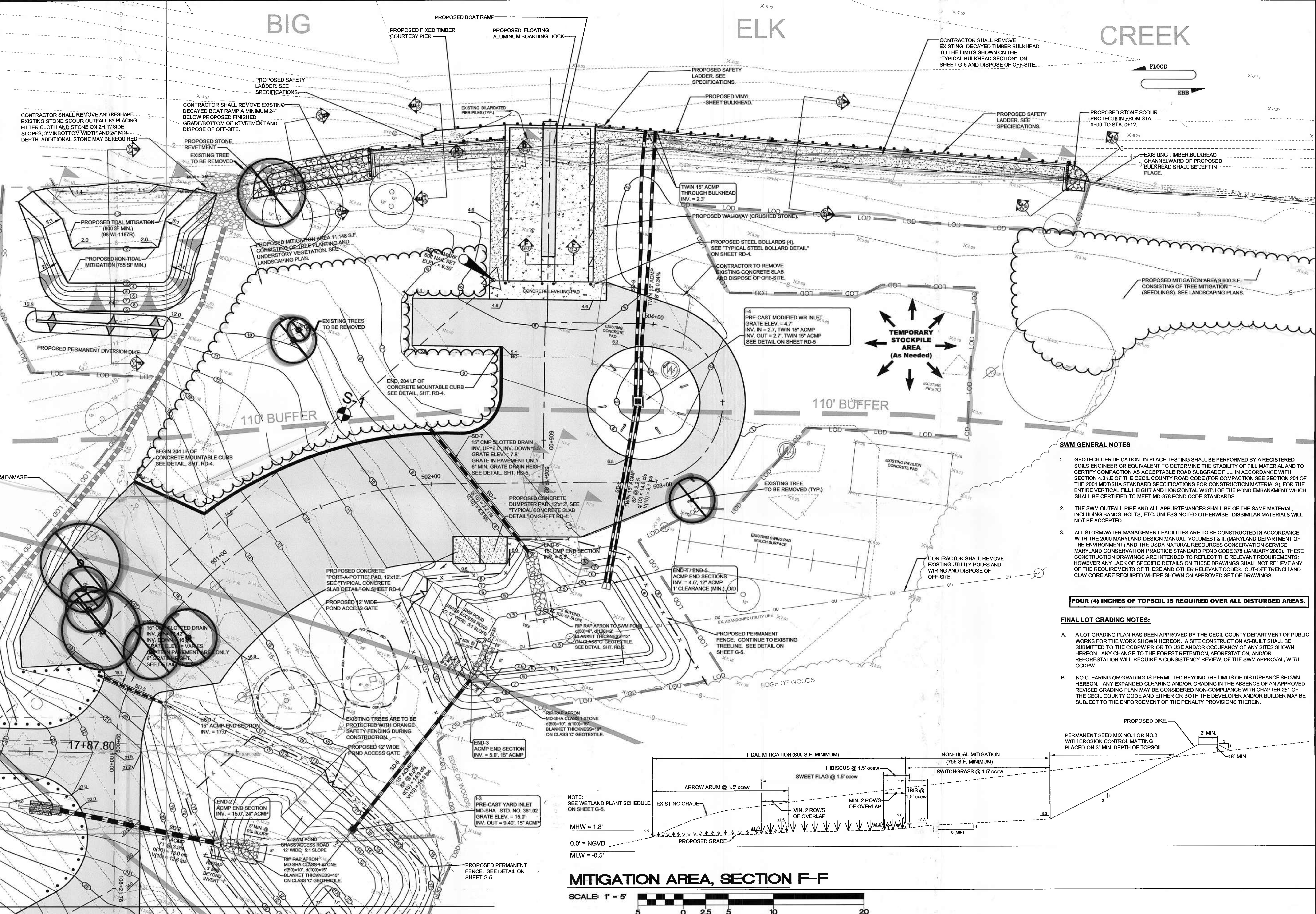
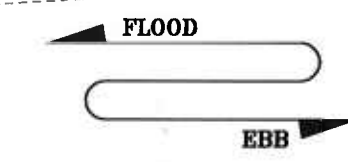
-  *Carya glabra* - pignut hickory
-  *Crataegus crusgalli* - cockspur hawthorne
-  *Juniperus virginiana* - Eastern red cedar
-  *Liriodendron tulipifera* - tulip poplar
-  *Liquidambar styraciflua* - sweetgum
-  *Nyssa sylvatica* - black gum
-  *Pinus virginiana* - Virginia pine
-  *Quercus coccinea* - scarlet oak
-  *Quercus phellos* - willow oak
-  *Quercus rubra* - northern red oak
-  *Quercus velutina* - black oak
-  *Sassafras albidum* - sassafras
-  *Aralia spinosa* - devil's walking stick
-  *Clethra alnifolia* - summersweet pepperbush
-  *Ceanothus americanus* - New Jersey tea
-  *Ilex glabra* - inkberry holly
-  *Morella (Myrica) cerifera* - wax myrtle
-  *Photinia (Aronia) melanocarpa* - black chokeberry
-  *Rhus copallina* - winged sumac
-  *Viburnum nudum* - possumhaw viburnum

No.	Date	Revisions / Submissions
		
Design Firm: Herr Landscape Architecture 601 Locust Street, Suite 402 Cambridge, MD 21613 410.228.4533 410.228.1116 fax		
Project Title: Elk River Park Boat Ramp Project Cecil County, Maryland		
Drawing Title: Mitigation Planting Plan Planting Area C		
Project Manager	Project ID: Elk River Park	
Drawn By: DSH	Scale: 1" = 20'	
Reviewed By: dsh	Drawing No.: 4	
Date: 11.2.07	Sheet: of 4	
CAD File Name: areaC		

BIG

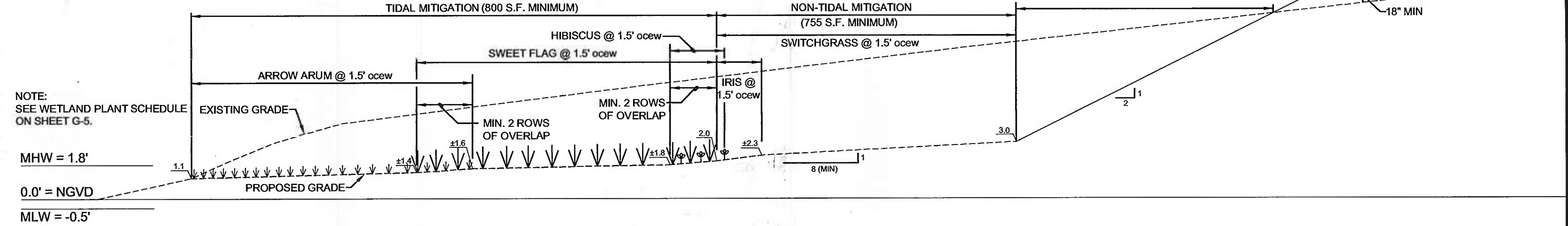
ELK

CREEK



- SWM GENERAL NOTES**
1. GEOTECH CERTIFICATION: IN PLACE TESTING SHALL BE PERFORMED BY A REGISTERED SOILS ENGINEER OR EQUIVALENT TO DETERMINE THE STABILITY OF FILL MATERIAL AND TO CERTIFY COMPACTION AS ACCEPTABLE ROAD SUBGRADE FILL. IN ACCORDANCE WITH SECTION 4.01.E OF THE CECL COUNTY ROAD CODE (FOR COMPACTION SEE SECTION 204 OF THE 2001 MD TSHA STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS). FOR THE ENTIRE VERTICAL FILL HEIGHT AND HORIZONTAL WIDTH OF THE POND EMBANKMENT WHICH SHALL BE CERTIFIED TO MEET MD-378 POND CODE STANDARDS.
 2. THE SWM OUTFALL PIPE AND ALL APPURTENANCES SHALL BE OF THE SAME MATERIAL, INCLUDING BANDS, BOLTS, ETC. UNLESS NOTED OTHERWISE. DISSIMILAR MATERIALS WILL NOT BE ACCEPTED.
 3. ALL STORMWATER MANAGEMENT FACILITIES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2000 MARYLAND DESIGN MANUAL, VOLUMES I & II, (MARYLAND DEPARTMENT OF THE ENVIRONMENT) AND THE USDA NATURAL RESOURCES CONSERVATION SERVICE MARYLAND CONSERVATION PRACTICE STANDARD POND CODE 378 (JANUARY 2000). THESE CONSTRUCTION DRAWINGS ARE INTENDED TO REFLECT THE RELEVANT REQUIREMENTS; HOWEVER ANY LACK OF SPECIFIC DETAILS ON THESE DRAWINGS SHALL NOT RELIEVE ANY OF THE REQUIREMENTS OF THESE AND OTHER RELEVANT CODES. CUT-OFF TRENCH AND CLAY CORE ARE REQUIRED WHERE SHOWN ON APPROVED SET OF DRAWINGS.

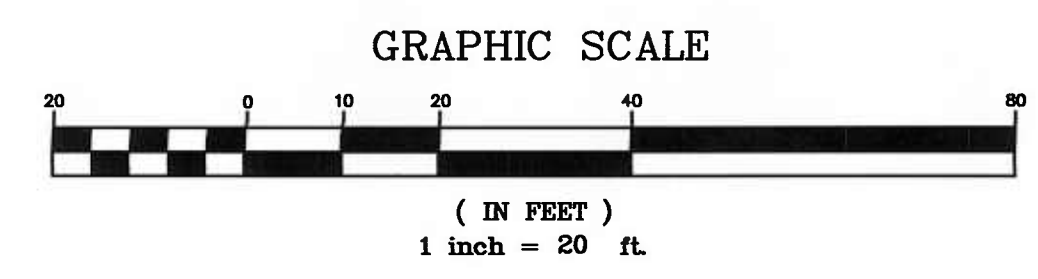
- FOUR (4) INCHES OF TOPSOIL IS REQUIRED OVER ALL DISTURBED AREAS.**
- FINAL LOT GRADING NOTES:**
- A. A LOT GRADING PLAN HAS BEEN APPROVED BY THE CECL COUNTY DEPARTMENT OF PUBLIC WORKS FOR THE WORK SHOWN HEREON. A SITE CONSTRUCTION AS-BUILT SHALL BE SUBMITTED TO THE CDDPW PRIOR TO USE AND/OR OCCUPANCY OF ANY SITES SHOWN HEREON. ANY CHANGE TO THE FOREST RETENTION, AFForestation, AND/OR REFORESTATION WILL REQUIRE A CONSISTENCY REVIEW OF THE SWM APPROVAL WITH CDDPW.
 - B. NO CLEARING OR GRADING IS PERMITTED BEYOND THE LIMITS OF DISTURBANCE SHOWN HEREON. ANY EXPANDED CLEARING AND/OR GRADING IN THE ABSENCE OF AN APPROVED REVISED GRADING PLAN MAY BE CONSIDERED NON-COMPLIANCE WITH CHAPTER 251 OF THE CECL COUNTY CODE AND EITHER BOTH THE DEVELOPER AND/OR BUILDER MAY BE SUBJECT TO THE ENFORCEMENT OF THE PENALTY PROVISIONS THEREIN.



MITIGATION AREA, SECTION F-F
SCALE: 1" = 5'

SEE SHEET G-2

SEE SHEET G-4



REVISIONS			
NO.	DATE	ITEM	BY

STORMWATER MNGT. & FINAL GRADING PLAN
BOAT RAMP AREA

for
COMMISSIONERS OF CECL COUNTY
ELK RIVER PARK

3rd Election District
Cecil County, Maryland

Andrews, Miller & Assoc., Inc.
CONSULTING ENGINEERS AND SURVEYORS

Main Office: 401 Academy Street, Suite 1, Cambridge, Maryland 21613
Western Area Office: 15 Old Solomons Island Road, Suite 104, Annapolis, Maryland 21401

Tel: 410-228-7117
Fax: 410-228-2735

DATE: **JULY 2007**
SCALE: **As Shown**
JOB NO.: **04081.000**
SHEET: **G-3**

P:\04081\Cecil Co Elk River Final\dwg\100%_SUBMIT\Stormwater\Plan\G-3.dwg, C:\3, 8/12/2007 1:26:18 PM, HP-1000.dwg, 1:1

P:\0481 Cecil Co Elk River Bldg\100% Sub\SWM\Grading Plans\G3-4.dwg, C-4, 8/13/2007 1:28:05 PM, HP-1050.cad, 1:1



- SWM GENERAL NOTES**
1. GEOTECH CERTIFICATION: IN PLACE TESTING SHALL BE PERFORMED BY A REGISTERED SOILS ENGINEER OR EQUIVALENT TO DETERMINE THE STABILITY OF FILL MATERIAL AND TO CERTIFY COMPACTION AS ACCEPTABLE ROAD SUBGRADE FILL, IN ACCORDANCE WITH SECTION 4.01.E OF THE CECIL COUNTY ROAD CODE (FOR COMPACTION SEE SECTION 204 OF THE 2001 MDT/SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS). FOR THE ENTIRE VERTICAL FILL HEIGHT AND HORIZONTAL WIDTH OF THE POND EMBANKMENT WHICH SHALL BE CERTIFIED TO MEET MD-378 POND CODE STANDARDS.
 2. THE SWM OUTFALL PIPE AND ALL APPURTENANCES SHALL BE OF THE SAME MATERIAL, INCLUDING BANDS, BOLTS, ETC. UNLESS NOTED OTHERWISE. DISSIMILAR MATERIALS WILL NOT BE ACCEPTED.
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FOUR (4) INCHES OF TOPSOIL IS REQUIRED OVER ALL DISTURBED AREAS.

- FINAL LOT GRADING NOTES:**
- A. A LOT GRADING PLAN HAS BEEN APPROVED BY THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS FOR THE WORK SHOWN HEREON. A SITE CONSTRUCTION AS-BUILT SHALL BE SUBMITTED TO THE CDDPW PRIOR TO USE AND/OR OCCUPANCY OF ANY SITES SHOWN HEREON. ANY CHANGE TO THE FOREST RETENTION, AFFORESTATION, AND/OR REFORESTATION WILL REQUIRE A CONSISTENCY REVIEW, OF THE SWM APPROVAL, WITH CDDPW.
 - B. NO CLEARING OR GRADING IS PERMITTED BEYOND THE LIMITS OF DISTURBANCE SHOWN HEREON. ANY EXPANDED CLEARING AND/OR GRADING IN THE ABSENCE OF AN APPROVED REVISED GRADING PLAN MAY BE CONSIDERED NON-COMPLIANCE WITH CHAPTER 251 OF THE CECIL COUNTY CODE AND EITHER OR BOTH THE DEVELOPER AND/OR BUILDER MAY BE SUBJECT TO THE ENFORCEMENT OF THE PENALTY PROVISIONS THEREIN.

NO.	DATE	REVISIONS	BY

Construction Documents. See Cover Sheet for Signatures

Andrews, Miller & Assoc., Inc.
CONSULTING ENGINEERS AND SURVEYORS
Western Area Office:
15 Old Baltimore Harbor Road, Suite 100
P.O. Box 1004, Elk River, MD 21828
Tel: 410-228-1117 Fax: 410-228-2735

**STORMWATER MNGT. & FINAL GRADING PLAN
OVERFLOW PARKING AREA**

for
**COMMISSIONERS OF CECIL COUNTY
ELK RIVER PARK**
2nd Election District
Cecil County, Maryland

DRAWN	DESIGNED	CHECKED
ELW	GOW	ETP

DATE
JULY 2007

SCALE
1" = 20'

JOB NO.
04081.400

SHEET
G-4