51829-6713

Martin O'Malley
Governor

Anthony G. Brown



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/

July 23, 2007

Ms. Jennifer Rhodes Queen Anne's County Department of Planning and Zoning 160 Coursevall Drive Centerville, MD 21617

Re: 04-07-04-0012-C, 208 Barren Ridge Rd, Chester

Henrietta Brown

Dear Ms. Rhodes:

Thank you for providing resubmitted information on the above referenced project. The applicant proposes to subdivide an existing lot located in the Limited Developed Area (LDA) into two lots. In response to my previous comments, the applicant has shown the 100-foot Buffer on the plat plan, included the appropriate comments from DNR Wildlife and Heritage and shown that the afforestation will be provided as required. This office has no further comments on the proposal. Please contact me if you have any questions at (410) 260-3479.

Sincerely,

Marshall Johnson

Natural Resources Planner

cc: QC 240-07



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 7, 2007

Ms. Jennifer Rhodes Queen Anne's County Department of Planning and Zoning 160 Coursevall Drive Centerville, MD 21617

Re: 04-07-04-0012-C, 208 Barren Ridge Rd, Chester

Henrietta Brown

Dear Ms. Rhodes:

Thank you for providing information on the above referenced project. The applicant proposes to subdivide an existing lot located in the Limited Developed Area (LDA) into two lots. Please see my comments below.

- 1. Queen Anne's County Title 14:53.C (Specific Provisions for Buffer Exempted Areas. Applicability) states: "This section applies only to new development or redevelopment within 100 feet of tidal waters, tidal wetlands and tributary streams on lots of record as of December 1, 1985, and located in mapped Buffer Exemption Areas as shown on the critical area maps." The proposed subdivision will create new lots of record as of the date the plat is recorded and will no longer comply with the date for grandfathered lots of record. Under the current County Critical Area Program, the Buffer Exemption section will no longer apply to these lots. As a result, any proposed development on the lots will be required to meet all applicable requirements of the Critical Area LDA, including the 100' Buffer.
- 2. Queen Anne's County Code §14:1-38.D(2) (Site Development Standards) states that site development shall be designed to assure that Habitat Protection Areas are not adversely affected. The site is within the Protection Zone of a Great Blue Heron waterbird colony. The area surrounding this protected colony is a Habitat Protection Area, as designated on State maps. The applicant should meet the requirements of the DNR Wildlife and Heritage Service concerning any development activity on the subject site. In addition, the permanent disturbance of extending another pier from this site, and the associated ongoing human activity out into the creek would likely adversely affect this Habitat

Jennifer Rhodes May 7, 2007 Page 2 of 2

Protection Area. To meet §14:1-38.D(2), the plat could include an access easement and statement on the plat allowing joint use of the existing pier by both lots, and restricting this subdivision to a single shared pier.

3. Queen Anne's County Code § 14:1-38.D (6)(a) states that the location of the afforested area shall be designed to protect habitats or to provide continuity with forested areas on adjacent sites. The plantings shown on the landscaping plan should be relocated to provide continuity between planted areas on the two new lots. In this case the habitats to be protected are located in the creek and wetland. In order to comply with this regulation, the afforestation plantings must be located across the width of the lots to promote a vegetated buffer between the development envelopes and the wetland. It is acceptable to locate the new trees near the outer property lines, and the other plantings across the center of the lots, as long as the plantings meet in the center to provide continuity.

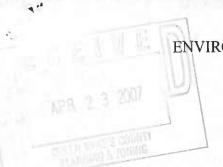
Thank you for the opportunity to comment. Please contact me if you have any questions at (410) 260-3479.

Sincerely,

Marshall Johnson

Natural Resources Planner

cc: QC 240-07



ENVIRONMENTAL REGULATIONS CONSULTANT, INC.

Jan Reese, P.O. Box 298 St. Michaels, Maryland 21663 410-745-2875

17 April 2007

CHESAPEAKE BAY CRITICAL AREA ENVIRONMENTAL ASSESSMENT PROPERTY OF HENRIETTA BROWN

0.86 ACRE ± ON BARREN RIDGE ROAD NEAR CHESTER, KENT ISLAND QUEEN ANNE'S COUNTY, FOURTH ELECTION DISTRICT TAX MAP 57, BLOCK 13, PARCEL 28

INTRODUCTION

The property is located on the west side of Barren Ridge Road about 500 feet north of its intersection with Brown Road just off Cox Neck Road near Chester, Kent Island, Queen Anne's County. The property location and configuration are depicted in Figure 1, while its location can be found on Queen Anne's County ADC Map 23, B5.

Narrow ends of the rectangle-shaped property bound the west side of Barren Ridge Road and east side of Cox Creek with an existing one-story wooden house and concrete pad for parking vehicles adjacent to Barren Ridge Road, and a 100-feet long pier jutting into Cox Creek from the southwest corner of the property. Remainder of the property is mowed lawn interspersed with about seven trees and shrubs. Developed residential properties bound the parcel on the north and south.

The property is entirely within the Chesapeake Bay Critical Area, designated Limited Development Area (LDA), and is a mapped Buffer Exemption area. The property is zoned Neighborhood Conservation (NC-8) by the Queen Anne's County, Department of Planning and Zoning. I visited the property at 0945-1045 with overcast sky on 14 April 2007 to collect information for this Chesapeake Bay Critical Area Environmental Assessment.

PROPOSED DEVELOPMENT

The property is proposed for removal of all existing impervious surfaces including the existing house and concrete vehicle parking area with subsequent subdivision into two approximately 0.4 acre building lots. Construction on newly created lots cannot exceed 15 percent of the individual lot area (about 2,812 sq. ft. per lot) as required within the Critical Area designated Limited Development Area (LDA). The new lots will be accessed directly from Barren Ridge Road, and provided sewage effluent disposal into an existing public system. Potable water will be provided by individual on-site wells.

EXISTING NATURAL FEATURES

AQUATIC RESOURCES

Shoreline Erosion Rate

The west side of the property has about 130 feet of unprotected shoreline with tidewater of Cox Creek, although gravel plus remnant riprap of concrete, brick and stone are scattered on mud along the north portion. Clod fragments of herbaceous rhizomes from a historic tidal marsh substrate characterized the waters edge while landward there is a narrow contiguous margin of herbaceous and woody shrub marsh plants adjoining lawn. Cox Creek is about 500 feet wide at the property. The narrow tributary of shallow water with a short fetch appears to minimize any turbidity erosion from flooding, wind and tides, however waves from boat traffic in the narrow waterway may be at least partially responsible for existing marsh erosion. The Queen Anne's County, Department of Planning and Zoning modified U.S. Department of the Interior, FWS, 1982 National Wetland Inventory, Kent Island, MD Map suggests shoreline erosion is not appreciable in this narrow, protected portion of Cox Creek.

Submerged Aquatic Vegetation

Environmental Protection Agency (EPA). Chesapeake Program The U.S. Bay (http://www.vims.edu/bio/sav/sav01/quads/qe032.ht), 2001 Distribution of Submerged Aquatic Vegetation in the Chesapeake Bay and Tributaries and the Coastal Bays SAV aerial and ground census plots no SAVs in this upper portion of Cox Creek, however reports previously conducted by EPA in various years during the 1980s and 1990s, and the Chesapeake Bay Program, Living Resources Subcommittee, 1991 Habitat Requirements of Chesapeake Bay Living Resources plot Widgeon Grass, Sago Pondweed, and Redhead Grass (Ruppia maritima, Potamogeton pectinatus, and Potamogeton perfoliatus) growing in portions of upper Cox Creek. It should be noted these censuses sometimes do not include the upper reaches of tributaries. Sprouting SAV species observed on exposed mud along the shoreline the day of the site visit suggest a good stand may exist offshore from the property. The growing plants appear to be Widgeon Grass or Horned Pondweed (Zannichellia palustris). Additionally, Blue-green Algae (Cladophora spp.) are frequent in tidewater along the property shoreline.

Fish Spawning

The Queen Anne's County, Department of Planning & Zoning, 1995 Queen Anne's County, Natural Resources Map, the Chesapeake Bay Living Resources Subcommittee, 1991 Habitat Requirements for Chesapeake Bay Living Resources, and the University of Maryland, Natural Resources Institute, 1973 The Chesapeake Bay in Maryland: An Atlas of Natural Resources all indicate most anadromous species of fish do not spawn in upper Cox Creek, but the latter two sources suggest the possibility of Bay Anchovy (*Anchoa mitchilli*) spawning in Cox Creek.

Shellfish

The Queen Anne's County, Department of Planning & Zoning, 1995 Queen Anne's County, Natural Resources Map, the Chesapeake Bay Living Resources Subcommittee, 1991 Habitat Requirements for Chesapeake Bay Living Resources, and the University of Maryland, Natural Resources Institute, 1973 The Chesapeake Bay in Maryland: An Atlas of Natural Resources all depict beds of the American Oyster (Crassostrea virginica) in upper Cox Creek, while the Living Resources study plots high-density of Soft-shelled Clam (Mya arenaria) may occur in tidewater offshore from the property. A few shells of American Oyster were noted on exposed

mud along the property shoreline, while an excellent community of live Atlantic Ribbed Mussel (Geukensia demissa) grows in the fragmented portion of the property marsh. Additionally, noted on pilings and rocks along the shoreline are good populations of Bay Barnacle (Balanus improvisus), while a Blue Crab (Callinectes sapidus) clung to a pier piling.

Fin Fish

The University of Maryland, Natural Resources Institute, 1973 The Chesapeake Bay in Maryland: An Atlas of Natural Resources, and the Chesapeake Bay Program, Living Resources Subcommittee, 1991 Habitat Requirements for Chesapeake Bay Living Resources show American Shad, Menhaden, Alewife, Blue-backed Herring, American Eel, White Perch, Atlantic Silverside, and Bay Anchovy (Alosa sapidissima, Brevoortia, Alosa pseudoharengus, Alosa aestivalis, Anguilla rostrata, Morone americana, Menidia menidia, Anchoa mitchilli) may occur in open water of Cox Creek offshore from the property.

Waterfowl Concentration Areas

The Queen Anne's County, Department of Planning & Zoning, 1995 Queen Anne's County, Natural Resources Map, and the University of Maryland, Natural Resources Institute, 1973 The Chesapeake Bay in Maryland: An Atlas of Natural Resources indicate historically hundreds of geese and/or surface-feeding ducks wintered in upper portion of Cox Creek south of the property. A pair of Mallard (Anas platyrhynchos) flushed along the property shoreline, while a flock of over 30 Ruddy Duck (Oxyura jamaicensis) gathered offshore during the site visit.

TERRESTRIAL RESOURCES

Topography

The U.S. Geological Survey, 1973 (Photo-revised) <u>Kent Island, MD Topographic Quadrangle Map</u> (Figure 1) plots no topographic contours anywhere on the Cox Neck peninsula suggesting the entire area is level. The map does give a spot elevation of 13 feet above sea level along Cox Neck Road, about 1,500 feet north of its intersection with Barren Ridge Road. The site visit found the property subtly decreases in elevation from Barren Ridge Road west to Cox Creek, but is void of defined slopes.

Property topography and elevations are best realized by the elevation survey plotted on the McCrone, Inc., 2007 <u>Minor Subdivision on the lands of Henrietta Brown</u> that shows property elevations range 3–9 feet above sea level with the lowest elevation at tidewater along the west property boundary.

Soils

Figure 2A is taken from the U.S. Department of Agriculture, SCS/NRCS, 2002 <u>Soil Survey of Queen Anne's County, MD, Sheet 31</u> and maps the entire property as non-hydric Mattapex-Butlertown silt loam soil (MtB). Seasonally near-surface groundwater, slow permeability, and poor structural strength in Mattapex-Butlertown soils may create severe limitations for disposal of sewage effluent and vehicle roadways, but limitations are only modest for home sites. Soil configurations from the Soil Survey are plotted on the McCrone, Inc., 2007 <u>Minor Subdivision on the lands of Henrietta Brown.</u>

100-Year Flood Plain

The Federal Emergency Management Agency, 1984 Queen Anne's County, MD, Unincorporated Areas, Flood Insurance Rate Map 240054, Panel 0046C indicates nearly the entire property is in Flood Hazard Zone "A", within limits of the 100-year tidal flood. An exception occurs in a linear 30-40-feet wide area adjoining Barren Ridge Road that is in Flood Hazard Zone "B," between limits of the 100-year and 500-year floods. Flood Zones from the FEMA Map are plotted on the McCrone, Inc., 2007 Minor Subdivision on the lands of Henrietta Brown.

Wetlands

Figure 2B is taken from the U.S. Department of the Interior, FWS 1982 <u>National Wetland Inventory, Kent Island, MD Map</u> and plots Estuarine, sub-tidal, open water wetlands (E10WL) of tidewater Cox Creek adjoining the west side of the property. The tidal wetland margin and landward non-tidal wetland margin are field delineated on the property by Environmental Concern, Inc. in January 2007, and subsequently field survey located and plotted on the McCrone, Inc., 2007 <u>Minor Subdivision on the lands of Henrietta Brown.</u>

Hydrology and Streams

The U.S. Geological Survey, 1973 (Photo-revised) <u>Kent Island, MD Topographic Quadrangle Map</u> (Figure 1) plots no bodies of surface hydrology (pond, impoundment) or streams on the property landward of Cox Creek, and this is confirmed by the site visit and noted on the McCrone, Inc., 2007 <u>Minor Subdivision on the lands of Henrietta Brown</u>.

Vegetative Cover

Mowed lawn covers all the property outside impervious surfaces, while five small cultivars of holly and rose-mallow grow on lawn adjacent to Barren Ridge Road and two large, multiple-trunk, Silver Maple (Acer saccharinum) shade trees are located on the lawn midway of the property. A narrow, linear area dominated by Saltmarsh Cordgrass, Salt Grass, and High Tide Bush (Spartina alternifolia, Distichlis spicata, Iva frutesence) grows on the property adjoining tidewater.

Wildlife

Open tidewater, shoreline, two trees, and extensive lawn area in a highly developed area provides no water, and little cover, small prey, seeds, berries, insects, and other invertebrate foods for any kind of wildlife. Mallard, Ring-billed Gull, and Muskrat (*Anas platyrhynchos, Larus atricilla, Ondatra zibethicus*) flushed along the property shoreline are the only wildlife found on the property during the site visit, however the following species are identified on or over nearby tidewater of Cox Creek or adjoining properties: Great Blue Heron, Turkey Vulture, Ruddy Duck, Osprey, Fish Crow, Northern Mockingbird, American Robin, European Starling, Northern Cardinal, Song Sparrow, White-throated Sparrow, American Goldfinch, Common Grackle, European House Sparrow.

Rare and Endangered Species or Habitats

No federal or state protected species of plant, animal, or habitat was found during the site visit. An Environmental Review for rare, threatened, and endangered species and/or habitats was requested from the Maryland Department of Natural Resources, Wildlife and Heritage Service on 16 April 2007. A copy of the

request is included herein, and a copy of the MD DNR response will be made a part of this assessment when received.

A protected waterbird colony of Great Blue Heron is located on the opposite side of Cox Creek from the property only about 500 feet away. Timber harvesting, clearing, grading, and/or construction are prohibited annually from 15 February through 31 July on properties within 1,320 feet of the protected colony.

The Queen Anne's County, Department of Planning and Zoning 1995 Queen Anne's County, Natural Resources Map plots the nearest occurrence of the protected Delmarva Fox Squirrel over five miles east of the property, and nearest nest site of the protected Bald Eagle over one mile east of the property. The map plots several Colonial Nesting Water Bird sites within one mile northwest, west, and southwest of the property, with the nearest being the nesting Great Blue Heron Colony referenced above. The U.S. Department of the Interior FWS, Chesapeake Bay Field Office, 2004 Delmarva Fox Squirrel Occurrence in Queen Anne's County, MD plots the nearest squirrel occurrence over four miles east of the property.

PRECAUTIONS FOR POTENTIAL ENVIRONMENTAL IMPACTS

The McCrone, Inc., 2007 Minor Subdivision on the lands of Henrietta Brown and/or this assessment note the absence of hydric soils, steep slopes, surface hydrology, streams, natural plant communities, wildlife, rare or endangered species, and sewage effluent disposal on the property and fish spawning offshore. Conversely, denoted are property wetlands with the unprotected shoreline exhibiting marsh erosion and abundant live Ribbed Mussel, while offshore there is a protected nesting colony of waterbirds, submerged aquatic vegetation, shells of American Oyster, various species of finfish, and concentrations of wintering waterfowl that may require protective measures within the Critical Area Regulations. Indeed, construction is prohibited on the property during the 15 February-31 July nesting season of a nearby colony of Colonial Waterbirds. Plotted or noted on the subdivision map are landward limits of the Critical Area, colonial waterbird nest colony buffer, tidal and non-tidal wetlands, 100-feet shoreline buffer, and 100-year and 500-year tidal floods. An approved Sediment and Erosion Control Plan will be developed in accordance with the Queen Anne's County Soil Conservation Service standards prior to any clearing, well-drilling, excavation, grading, filling, or construction exceeding 5,000 sq. ft. on the property to decrease the quantity and improve the quality of stormwater runoff to Cox Creek. Disposal of sewage effluent will be provided by an existing public system.

SUMMARY

The entire property is within the Chesapeake Bay Critical Area designated Limited Development Area (LDA) proposed for clearing the existing house and other impervious surfaces, and subdivision into two building lots to be accessed from Barren Ridge Road and provided sewage effluent disposal by an existing system. Potable water will be obtained from on-site wells. Nearly the entire property is within limits of the 100-year tidal flood. The level property is void of hydric soil, slopes, surface hydrology, streams, natural plant communities, wildlife, rare or endangered species, and fish spawning, but does contain wetlands, shoreline erosion, shellfish, and offshore-submerged aquatic vegetation, various finfish, wintering waterfowl, and a protected colony of nesting waterbirds. All of these factors are noted in this assessment and/or plotted on the McCrone, Inc., 2007 Minor Subdivision on the lands of Henrietta Brown.

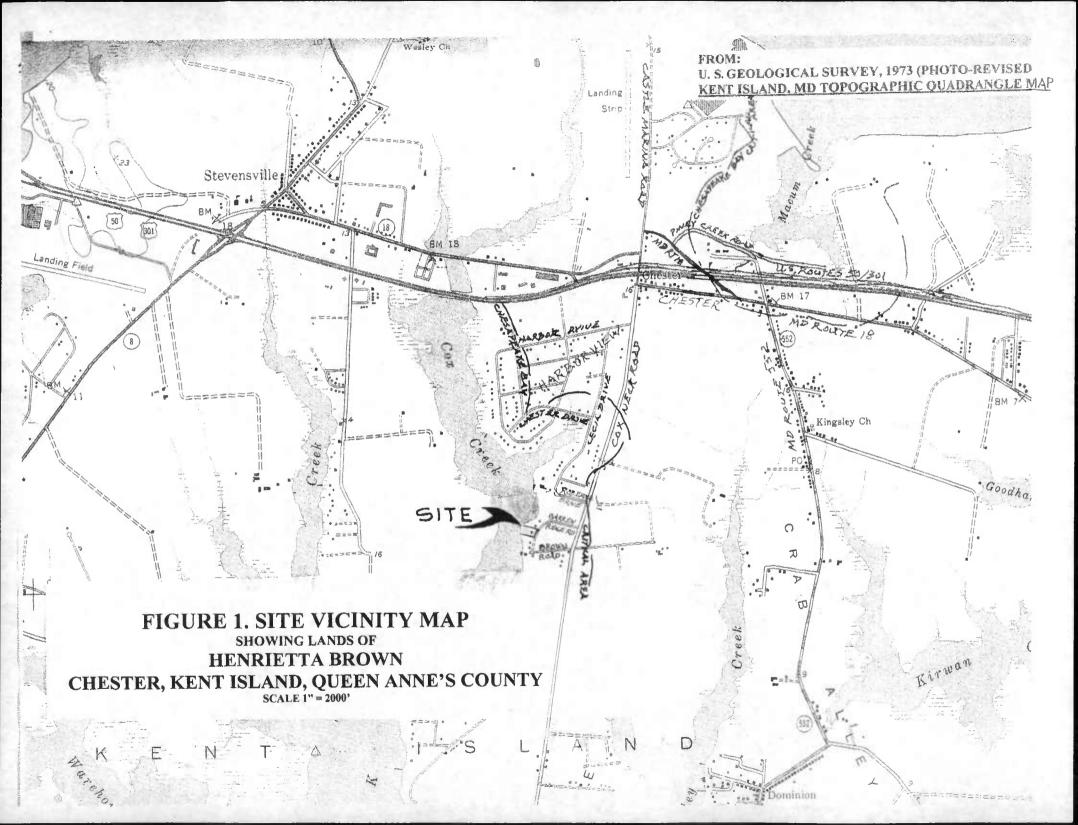


FIGURE 2. SOILS AND WETLANDS ON PROPERTY OF HENRIETTA BROWN NEAR CHESTER, KENT ISLAND, QUEEN ANNE'S COUNTY, MD

A) U.S. DEPARTMENT OF AGRICULTURE, SCS/NRCS, 2002 B) U.S. DEPARTMENT OF THE INTERIOR, FWS, 1982 SOIL SURVEY OF QUEEN ANNE'S COUNTY, MD, SHEET 31 NATIONAL WETLAND INVENTORY, KENT ISLAND, MD MAI EM5P MtB ROBERTA DRIVE BP E10WL Reaction BROWN RO BROWN MIA

ENVIRONMENTAL REGULATIONS CONSULTANT, INC.

Jan Reese, P.O. Box 298 St. Michaels, Maryland 21663 410-745-2875

16 April 2007

TO: Lori Byrne, Review Specialist
MD Dept. of Natural Resources
Wildlife & Heritage Service
Tawes State Office Building E-1
580 Taylor Avenue
Annapolis, Maryland 21401

SUBJECT: ENVIRONMENTAL REVIEW REQUEST FOR PROPERTY WITHIN THE CHESAPEAKE BAY CRITICAL AREA

PROPERTY OF HENRIETTA BROWN NEAR CHESTER, QUEEN ANNE'S COUNTY, FOURTH ELECTION DISTRICT, TAX MAP 57, BLOCK 13, PARCEL 28

The property is located on the west side of Barren Ridge Road about 500 feet north of its intersection with Brown Road just off Cox Neck Road near Chester, Kent Island, Queen Anne's County. The property location and configuration are shown in Figure 1, while its location can be found on Queen Anne's County ADC Map B5.

Narrow ends of the rectangle-shaped property bound the west side of Barren Ridge Road and the east side of Cox Creek with an existing one-story wooden house and concrete pad for parking vehicles adjacent to Barren Ridge Road, and a 100-feet long pier jutting into Cox Creek from the southwest corner of the property. Remainder of the property is mowed lawn interspersed with about seven trees and shrubs. Developed residential properties bound the parcel on the north and south.

The entire property is zoned Neighborhood Conservation (NC-8) by the Queen Anne's County, Department of Planning & Zoning, within the Chesapeake Bay Critical Area designated Limited Development Area (LDA), and proposed for clearing and subdivision into two building lots. Additionally, the property is directly across Cox Creek about 500 feet from a protected waterbird nesting colony of Great Blue Heron.

I would appreciate a review of the MD Department of Natural Resources and MD Historical Trust databases for the presence/absence of state or federally listed, threatened or endangered species of plants and animals, historic sites, or cultural features requiring preservation as defined in the Chesapeake Bay Critical Area Law and Regulations. The information provided is to be submitted as part of the property's Critical Area Environmental Assessment required by the county where the subdivision or construction is proposed.

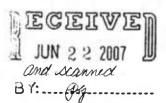
Enclosure: Site Vicinity Map



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

June 8, 2007

Mr. Jan Reese Environmental Regulations Consultant, Inc. P.O. Box 298; St. Michaels, MD 21663



RE: Environmental Review for Property of Henrietta Brown near Chester, Tax Map 57, Parcel 28, Barren Ridge Road and Cox Creek, Queen Anne's County, Maryland.

Dear Mr. Reese:

The Wildlife and Heritage Service's database indicates that there is an active Great Blue Heron colony just across the creek from this project site. A recent site visit to the colony has determined that the colony is currently active, however, it was also determined that this colony would not likely be disturbed by most normal construction activities on this property across the creek, including pier construction.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,

Loui a. Bym

Environmental Review Coordinator Wildlife and Heritage Service MD Dept. of Natural Resources

ER #2007.0968.qa cc: G. Therres, DNR

L. Hoerger, CAC

S.A. Smith, DNR



MINOR SUBDIVISION OF THE LANDS OF HENRIETTA BROWN

OWNER'S CERTIFICATE

HENRIETTA BROWN

UNIFORM ACKNOWLEDGMENT ACT

STATE OF _____

ON THIS ___DAY OF _____, 20___, BEFORE ME, THE UNDERSIGNED
OFFICER, PERSONALLY APPEARED

KNOWN TO ME (OR SATISFACTORILY PROVEN) TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED THAT HE EXECUTED THE SAME FOR THE PURPOSES THEREIN CONTAINED. IN WITNESS WHEREOF I HEREUNTO SET MY HAND AND OFFICIAL SEAL.

NOTARY PUBLIC

SURVEYOR'S CERTIFICATE

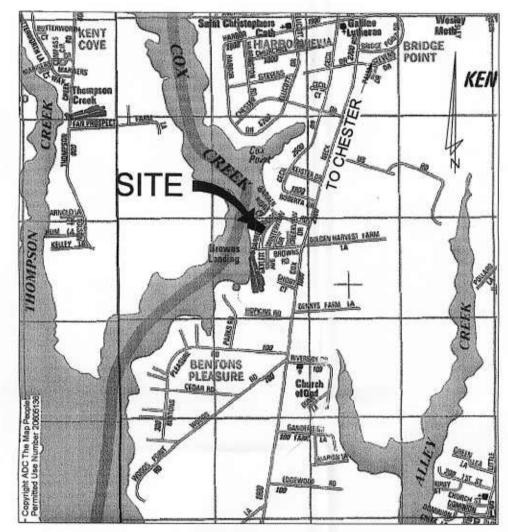
THIS IS TO CERTIFY THAT THE UNDERSIGNED, REGISTERED MARYLAND SURVEYOR NO. 414, HAS SURVEYED AND SUBDIVIDED THE PROPERTY AS DESCRIBED AND SHOWN ON THE ANNEXED PLAT AND THAT SUCH PLAT IS A CORRECT REPRESENTATION OF THAT SURVEY AND SUBDIVISION. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF. ALL LOTS MEET THE REQUIREMENTS OF THE QUEEN ANNE'S COUNTY ZONING ORDINANCE IN REGARD TO LOT AREA, WIDTH, AND BUILDABLE AREA.

I FURTHER CERTIFY THAT THIS SUBDIVISION IS SITUATED WITHIN FIVE HUNDRED (500) FEET OF A SURFACE DRAIN OR WATER COURSE SERVING AS A TRIBUTARY AREA OF 640 ACRES OR MORE.

I FURTHER CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THE MAJOR SUBDIVISION SHOWN HEREON WAS PREPARED BY McCRONE, INC. AT WHICH TIME THE UNDERSIGNED REGISTERED SURVEYOR WAS IN RESPONSIBLE CHARGE OF ITS PREPARATION AND THE SURVEYING WORK REFLECTED IN IT IS IN COMPLIANCE WITH THE REQUIREMENTS STATED IN COMAR 09.13.06.12 OF THE MINIMUM STATED SOR SURVEYORS.

AS WITNESS MY HAND AND SEAL THIS 🧻

PROPERTY LINE SURVEYOR DAVID R. JOINER McCRONE INC. 207 N. LIBERTY STREET CENTREVILLE, MD 21617



VICINITY MAP

SCALE: 1" = 2000'

PURPOSE AND INTENT:

THE PURPOSE OF THIS PLAT IS TO RECEIVE MINOR SUBDIVISION APPROVAL FROM THE QUEEN ANNE'S COUNTY PLANNING DEPARTMENT FOR ONE ADDITIONAL RESIDENTIAL LOT HAVING ACCESS TO BARREN RIDGE ROAD, A PUBLIC RIGHT OF WAY.

OWNER ENDIETTA BROW

HENRIETTA BROWN 208 BARREN RIDGE ROAD CHESTER, MD. 21619

SURVEYOR/ENGINEER

McCRONE, INC. 207 N. LIBERTY STREET CENTREVILLE, MD 21617

INDEX OF DRAWINGS				
SHEET 1	COVER SHEET			
SHEET 2	EXISTING CONDITIONS / BOUNDARY SURVEY			
SHEET 3	MINOR SUBDIVISION PLAT			
SHEET 4	CRITICAL AREA PLANTING PLAN			

DEPARTMENT OF ENVIRONMENTAL HEALTH CERTIFICATE

THIS IS TO VERIFY THAT THE ANNEXED PLAT OF SUBDIVISION WAS APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL HEALTH OF QUEEN ANNE'S COUNTY ON THIS___DAY OF______, 20____

JOHN E. NICKERSON DIRECTOR

COUNTY FINANCE OFFICER'S CERTIFICATE

THE FINANCE OFFICER OF QUEEN ANNE'S COUNTY HEREBY CERTIFIES THAT
THERE ARE NO DELINQUENT GENERAL TAXES AND NO REDEEMABLE TAX SALES
AGAINST ANY OF THE LAND SHOWN ON THE ANNEXED PLAT AND THAT I HAVE
RECEIVED ALL FEES AND TAXES ASSESSED AGAINST SUCH LAND. AS WITNESSED
BY MY SIGNATURE THIS DAY OF , 20 .

JUDY SOLVERSEN QUEEN ANNE'S COUNTY FINANCE OFFICER

PLANNING DEPARTMENT CERTIFICATE

THIS IS TO CERTIFY THAT THE ANNEXED PLAT OF SUBDIVISION WAS APPROVED BY THE DEPARTMENT OF PLANNING OF QUEEN ANNE'S COUNTY ON THE ____ DAY OF _____, 20____.

J. STEVEN COHOON ACTING DIRECTOR, PLANNING AND ZONING

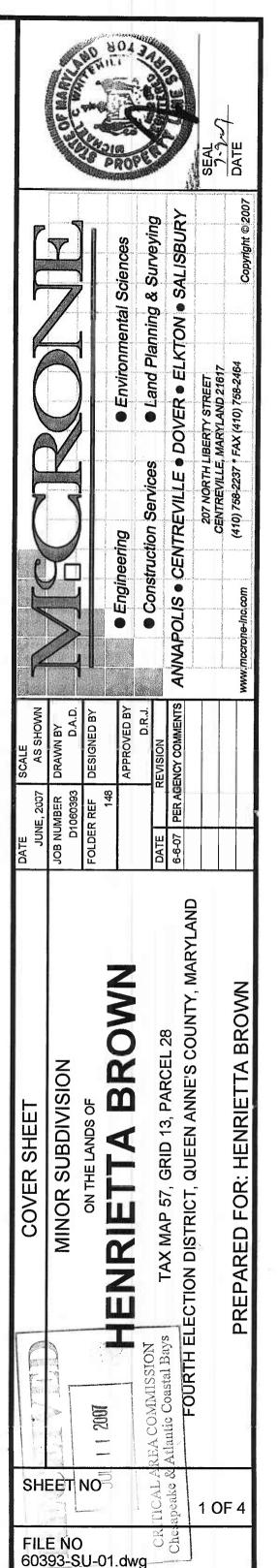
PUBLIC WORKS CERTIFICATE

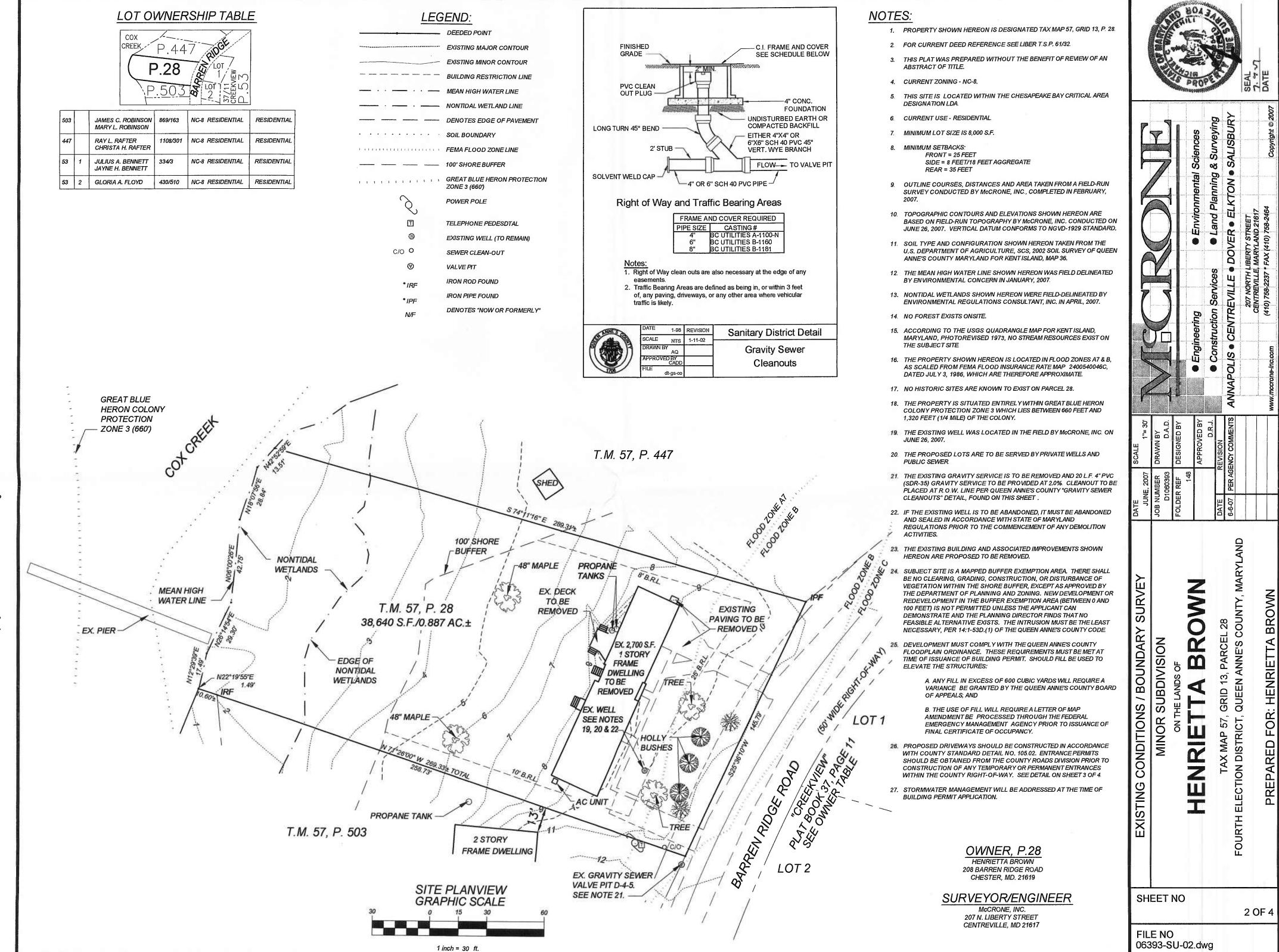
THIS IS TO VERIFY THAT THE ANNEXED PLAT OF SUBDIVISION WAS APPROVED BY THE DEPARTMENT OF PUBLIC WORKS OF QUEEN ANNE'S COUNTY ON THIS ____DAY OF_____, 20___.

JOHN J. SCARBOROUGH



SUBDIVISION # 04-07-04-0012-C





WWNDWG\Surveying\SUBDIVISION\06393-SU-02.dwg......Tab:SU-02

8:38am Q:\D1060393 - BROWN\DWG\Sur

ED: Jul 09 , 2007 - 8:38ar

LEGEND:

 — EXISTING ROAD R.O.W. ---- PROPERTY LINE TO BE REMOVED EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR **BUILDING RESTRICTION LINE** MEAN HIGH WATER LINE

> SOIL BOUNDARY FEMA FLOOD ZONE LINE

100' SHORE BUFFER GREAT BLUE HERON PROTECTION ZONE 3 (660')

TELEPHONE PEDESDTAL EXISTING WELL TO REMAIN WEL

POWER POLE

WELL PROPOSED WELL C/O O SEWER CLEAN-OUT

IRON ROD FOUND DENOTES "NOW OR FORMERLY"

VALVE PIT

IMPERVIOUS SURFACE CALCULATIONS

EXISTING PARCEL 28 TOTAL LOT AREA (CHESAPEAKE BAY CRITICAL AREA) = 37,504 SQ.FT.± IMPERVIOUS AREA ALLOWED (15%) = 5,626 SQ.FT.± EXISTING IMPERVIOUS AREA (TO BE REMOVED) = 4,027 SQ.FT.±

PROPOSED LOT 1 = 19,475 SQ.FT.± TOTAL LOT AREA (CHESAPEAKE BAY CRITICAL AREA) IMPERVIOUS AREA ALLOWED (15%) = 2,921 SQ.FT.± EXISTING IMPERVIOUS AREA (TO BE REMOVED) = 0,000 SQ.FT.± = 0,000 SQ.FT.± IMPERVIOUS AREA PROPOSED

PROPOSED LOT 2

TOTAL LOT AREA (CHESAPEAKE BAY CRITICAL AREA) = 18,029 SQ.FT.± = 2,704 SQ.FT.± IMPERVIOUS AREA ALLOWED (15%) = 0,000 SQ.FT.± EXISTING IMPERVIOUS AREA (TO BE REMOVED) IMPERVIOUS AREA PROPOSED = 0,000 SQ.FT.±

CRITICAL AREA FOREST REQUIREMENTS

TOTAL LAND WITHIN CRITICAL AREA (LDA)	=	0.861 ACRES
15% CRITICAL AREA	=	0.129 ACRES
EXISTING FOREST WITHIN CRITICAL AREA	=	0.000 ACRES
% OF EXISTING FOREST WITHIN CRITICAL AREA	=	0%
DEFICIT OF FOREST IN CRITICAL AREA	=	0.129 ACRES
AFFORESTATION REQUIREMENT	=	0.129ACRES

BASE SITE AREA

GROSS SITE AREA, (PER SURVEY) 38,656 S.F. LESS AREA IN 50' R/W 1,152 S.F. **EQUALS BASE SITE AREA** 37,504 S.F.

RESOURCE PROTECTION AREA

= 7,505 S.F. = 0.172 AC.± AREA OF NONTIDAL WETLANDS

FLOOD ZONE AREAS

0.771 AC.± 33,599 S.F. FLOOD ZONE A7 FLOOD ZONE B 3,905 S.F. 0.090 AC.±

SITE CAPACITY CALCULATIONS

BASE SITE AREA 37,504 S.F. 0.861 AC.± DIVIDED BY MINIMUM LOT SIZE 8,000 S.F. 0.184 AC.± EQUALS MAXIMUM NUMBER OF LOTS

SITE STATISTICS

BASE SITE AREA	=	37,504 S.F.	=	0.861 AC.±
CHESAPEAKE BAY CRITICAL AREA - LDA	=	37,504 S.F.	=	0.861 AC.±
NUMBER OF EXISTING LOTS			=	1
NUMBER OF PROPOSED LOTS			=	2
NUMBER OF REMAINING LOTS			=	2
NET BUILDABLE AREA				N/A
TOTAL OPEN SPACE REQUIRED	=	0 S.F.	=	0 AC.±
TOTAL OPEN SPACE PROVIDED	=	0 S.F.	=	0 AC.±

GREAT BLUE HERON COLONY PROTECTION ZONE NOTES:

SITE IS ENTIRELY LOCATED IN A ZONE 3 PROTECTION AREA (660'-1320' ZONE) FOR A GREAT BLUE HERON COLONY LOCATED ACROSS COX CREEK. PROTECTION ZONES 1 AND 2 FALL WITHIN COX CREEK. PER THE DEPARTMENT OF NATURAL RESOURCES LETTER DATED JUNE 8, 2007, IT WAS DETERMINED THAT THE GREAT BLUE HERON COLONY WOULD NOT LIKELY BE DISTURBED BY MOST NORMAL CONSTRUCTION ACTIVITIES ON THE SUBJECT PROPERTY, INCLUDING PIER CONSTRUCTION.

N/F LANDS OF RAY L. RAFTER -- 1,152 S.F.± CHRISTA H. RAFTER SEE INSET INTENDED TO BE (RIGHT) FOR TRUSTEES CONVEYED TO AREA TO BE S.M. 1108/301 QUEEN ANNE'S CONVEYED TO ZONED: NC-8 COUNTY USE: RESIDENTIAL Q.A. COUNTY LANDS OF NONTIDAL HENRIET/TA BROWN WETLANDS 100' SHORE **MEAN HIGH** LOT 1 WATER LINE **BUFFER** 19,475 SQ.FT.± 0.447 ACRES± 48" MAPLE 100' SHORE EX. PIER PLAT BUFFER /ISION z EDGE OF - N22°19'55"E NONTIDAL MINOR SUBDIVISIC MINOR SUBDIV WETLANDS LOT 2 LOT 1 48" MAPLE 18,029 SQ.FT.± HOLLY PLAY COREKIEM.

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PLAY CORE Q.414 ACRES± BUSHES BAPPEN PIDGE POAD C1 CHORD=S 25"12'30" W 61.31' R=946.00' L=61.32' CHORD=S 28°14'45" W 11.11' R=315.00' L=11.11' CHORD=S 34°57'31" W 62.60' R=315.00' L=62.70' PROPANE TANK L=12.89' S25°36'10"W N/F LANDS OF 2 STORY RS JAMES C. ROBINSON OWNER FRAME DWELLING HENRIETTA BROWN MARYL J. ROBINSON T/E 208 BARREN RIDGE ROAD S.M. 869/163 N71°26'00"W CHESTER, MD. 21619 10.34' INSET ZONED: NC-8 SITE PLANVIEW USE: RESIDENTIAL GRAPHIC SCALE GRAPHIC SCALE SURVEYOR / ENGINEER AREA TABLE McCRONE, INC. AREA 207 N. LIBERTY STREET CENTREVILLE, MD 21617 0.447 AC.± (19,475 SQ.FT.±) 0.414 AC.± (18,029 SQ.FT.±) FILE NO 1 inch = 20 ft. 1 inch = 30 ft.

0.887 AC.± 0.026 AC.± 0.861 AC.±

> Science જ Engineering

TAX MAP 57, GRID 13, FOURTH ELECTION DISTRICT, QUEEN A HENRIETTA

BROWN

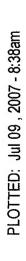
PREPARED FOR: HENR

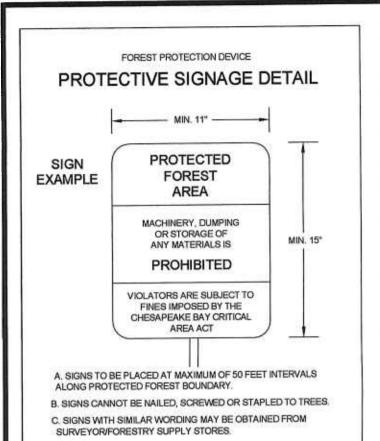
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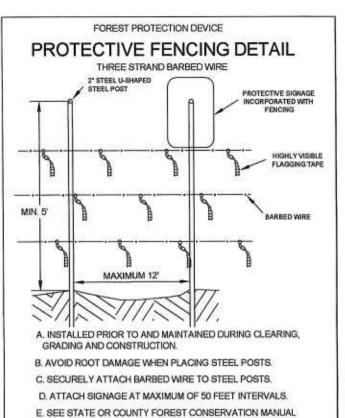
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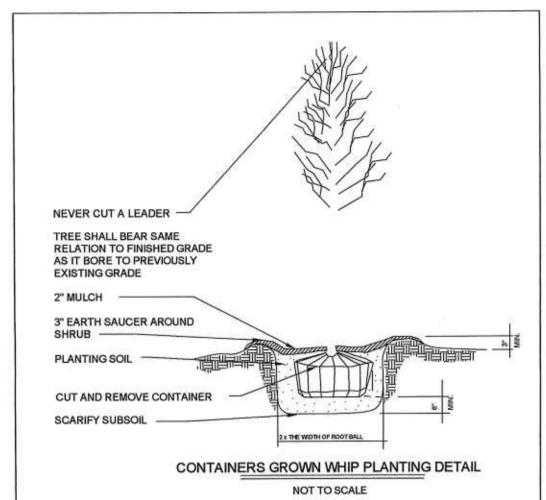
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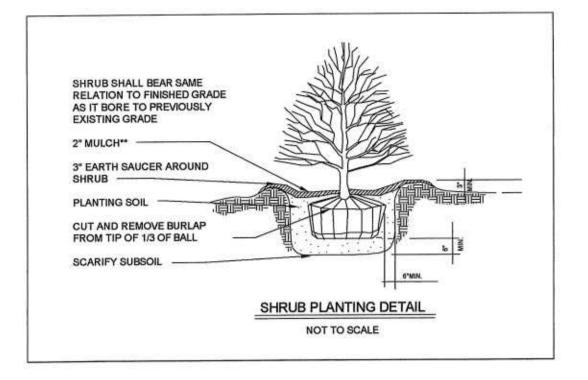
BROWN









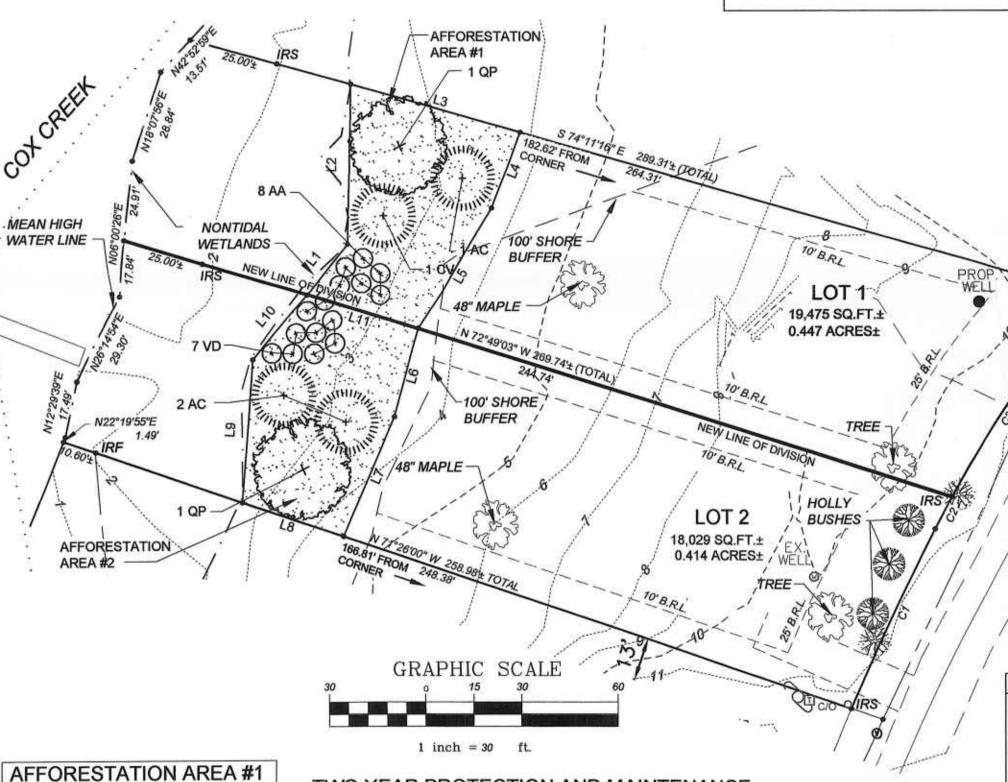


OWNER/DEVELOPER

HENRIETTA BROWN 208 BARREN RIDGE ROAD CHESTER, MD. 21619

SURVEYOR

McCRONE, INC. 207 N. LIBERTY STREET CENTREVILLE, MD 21617



CRITICAL AREA AFFORESTATION PLANTING PLAN CHAPTER 18:1-66.A., CHAPTER 14:1-D(6)(B) AND CHAPTER 14:1-54 PLANTING RESPONSIBILITY: HENRIETTA BROWN

REFORESTATION SITE LOCATION: 0.129 AC. ± WEST SIDE OF COX CREEK.

208 BARREN RIDGE ROAD CHESTER, MD. 21619 QUEEN ANNE'S COUNTY, FOURTH DISTRICT TAX MAP: 57 GRID: 13 PARCEL: 28

ADC MAP: 23, BLOCK: 5B

CONSISTING OF MATTAPEX SOILS (MtB) IN THE ENTIRETY REFORESTATION AREA ASSESSMENT:

THE EXISTING YARD CAN BE PLANTED DIRECTLY WITHOUT ANY PREPARATION. PRE-PLANTING:

WITHIN ONE YEAR, OR TWO GROWING SEASONS AFTER COMPLETION OF SCHEDULE:

DEVELOPMENT AND/OR APPROVAL OF THE SUBDIVISION. CONTAINER GROWN 4'-6' TALL WHIP TREES AND 18" HIGH SHRUBS. MATERIAL:

ENVIRONMENTAL CONCERN, INC., ST. MICHAELS, MARYLAND SOURCE:

> 9 TREES: 20% SHADE TREES (2 TREES), 50% UNDERSTORY TREES (4 TREES), 30% SHRUBS (3 REMAINING TREES X 5 = 15 SHRUBS), MIX OF NATIVE SPECIES AS SHOWN. ANY RECOMMENDED SPECIES OR PORTION NOT AVAILABLE AT TIME OF NURSERY ORDER WILL BE REPLACED WITH AVAILABLE, SIMILAR, SPECIES FOUND GROWING IN

THE WILD NEARBY. PLANTED AT THE SPACING SHOWN MANUALLY.

METHOD:

POST-PLANTING:

STOCK:

"PROTECTED FOREST AREA" SIGNS BOLTED ON STEEL OR WOOD FENCE POSTS POSTING: ERECTED AT 40-50 FEET INTERVALS FACING OUTWARD ALONG THE REFORESTATION

AREA BOUNDARIES TO REMAIN IN PERPETUITY.

COURSEVALL DRIVE, CENTREVILLE, MD. 21617

REFORESTATION MUST BE INSPECTED AT 12 AND 24 MONTH INTERVALS AFTER INSPECTIONS: PLANTING, AND A WRITTEN REPORT ADDRESSING STATUS OF THE TREES AND RECOMMENDATIONS FOR CORRECTING ANY NOTABLE EXISTING MORTALITY (DAMAGE, DISEASE, DROUGHT, PESTS, ETC.) FILED WITH THE FOREST CONSERVATION COORDINATOR, QUEEN ANNE'S COUNTY, DEPARTMENT OF PLANNING & ZONING, 160

AFFORESTATION PLANTING SCHEDULE AND COST ESTIMATE

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	SPACING	UNIT COST	EXT. COST
CANOF	Y TREES			NA 22 1022	the section was	045.00	600.00
QP	Quercus phellos	Willow Oak	2	4-6', container	as shown	\$15.00	\$30.00
UNDER	RSTORY TREES						
AC	Amelanchier canadensis	Shadbush	3	4-6', container	as shown	\$15.00	\$45.00
CV	Chionanthus virginicus	Fringe Tree	1	4-6', container	as shown	\$15.00	\$15.00
SHRUE	S						000.00
AA	Aronia arbutifolia	Red Chokeberry	8	18", container	as shown	\$ 6.00	\$30.00
VD	Viburnum dentatum	Arrowwood	7	18", container	as shown	\$ 6.00	\$30.00

44.23 N31°15'53"E L11 36.71 S73°12'41"E

AFFORESTATION AREA #1 = 0.066 Ac.±

LENGTH

20.70

49.56

54.88

25.01

LINE

L3

L4

BEARING

S39°20'14"W

S01°08'45"W

N74°11'16"W

N20°38'47"E

AFF(ORESTATI	ON AREA #2
LINE	LENGTH	BEARING
L6	28.27	N15°31'21"
L7	39.70	N23°35'01"I
L8	33.29	S71°26'00"
L9	43.69	S04°29'25"V
L10	25.95	S39°20'14"V
L11	36.71	S73°12'41"

AFFORESTATION AREA #2 = 0.063 Ac.±

TWO YEAR PROTECTION AND MAINTENANCE

THE PURPOSE OF THE TWO YEAR PROTECTION AND MAINTENANCE IS TO INCREASE THE SURVIVABILITY OF THE PLANT MATERIAL BY REDUCING COMPETING VEGETATION, DISEASE, AND MECHANICAL INJURY. ONCE ESTABLISHED, CLEARING OR CUTTING OF THE REFORESTATION AREAS IS NOT PERMITTED AS THE AREAS REMAIN IN LONG TERM PROTECTION. AFTER THE COMPLETION OF ALL REFORESTATION THE OWNERS OF LOTS 1 AND 2 SHALL PERFORM ALL TASKS NECESSARY TO MAINTAIN AND PROTECT THE REFORESTATION AREAS SHOWN HEREON FOR A PERIOD OF TWO (2) YEARS. THE PROTECTION AND MAINTENANCE HEREUNDER SHALL INCLUDE, BUT IS NOT LIMITED TO:

PLANTING SPECIES OR APPROVED CULTIVARS NATIVE TO THE PHYSIOGRAPHIC REGION OF THE COUNTY AND COMPATIBLE WITH THE EXISTING SITE; WATER, FERTILIZING, MULCHING, THINNING, REPLACEMENT OF DAMAGED OR DEAD PLANT MATERIALS, CONTROLLING COMPETING VEGETATION, AND PROTECTING PLANTS FROM DISEASE, PESTS AND MECHANICAL INJURY DURING THE INITIAL PLANTING AND THROUGHOUT THE TWO YEAR MAINTENANCE PERIOD AS NECESSARY: PROVIDING PROTECTIVE DEVICES SUCH AS FENCING, RETAINER WALLS AND INTERPRETIVE SIGNS AS NECESSARY TO PREVENT THE DESTRUCTION OR DEGRADATION OF THE PLANTING SITE.

CRITICAL AREA FOREST REQUIREMENTS

TOTAL LAND WITHIN CRITICAL AREA (LDA) 15% CRITICAL AREA **EXISTING FOREST WITHIN CRITICAL AREA**

% OF EXISTING FOREST WITHIN CRITICAL AREA DEFICIT OF FOREST IN CRITICAL AREA AFFORESTATION REQUIREMENT

= 0.861 ACRES± = 0.129 ACRES±

= 0.000 ACRES±

= 0% = 0.129 ACRES± = 0.129 ACRES±

\$150.00 APPROXIMATE WHOLESALE COST OF PLANTS 3 P&Z SELECTED MULTIPLIER \$450.00 APPROXIMATE IN-PLACE COST \$495.00 LETTER OF CREDIT: \$562.25 BOND:

BROWN VISION SUBDI

FOR: HENF

PREPARED

4 OF 4

57,

TING PLAN CRITICAL AREA MINOR HENRIE

SHEET NO

FILE NO 60393-SU-04