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/

July 10, 2008

Ms. Lori Allen Anne Arundel County Office of Planning and Zoning 2664 Riva Road, MS 6305 Annapolis, Maryland 21401

Re: Holly Beach Farm, CBF, Parks C 08-005200NC, G 02013508

Dear Ms. Allen:

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I have received information regarding the above mentioned site plan for review. It appears from the plans that the applicant proposes to construct an approximately 1,250 square foot garage and an approximately 9,600 square foot gravel parking lot on an undeveloped 4.98 acre property. The property is within the Critical Area and is designated as a Resource Conservation Area (RCA). I have provided my comments below:

- 1. The applicant states in the submitted narrative, "the Chesapeake Bay Foundation has development on other parts of the residue and it is considered a commercial use." It does not appear that the proposed development or the existing commercial development fit under any of the permitted uses in the RCA listed in the County's Code. Therefore, please have the applicant provide information that illustrates under which of the County's permitted uses of the RCA the proposed and existing development are permitted.
- 2. It is unclear why such an extensive area is proposed to be cleared and developed as lot coverage with the proposed parking area surrounding the garage. Please have the applicant either demonstrate the necessity of the large parking area surrounding the garage, or reduce the proposed clearing and impervious surface area.
- 3. Our records indicate that there is a federally protected species located in the vicinity of the project area. Therefore, the applicant must obtain a letter from the Maryland Department of Natural Resources' Wildlife and Heritage Service (WHS) that indicates whether any protected species are on the property or in the vicinity. The applicant should incorporate into the plans any WHS recommendations for protection of the species from the proposed development impacts.
- 4. The "Forestation Required/Provided" table on page two of the applicant's plans indicates that one ¹/₂-inch caliper tree equals 100 square feet of mitigation planting credit, and two ¹/₂-inch

Ms. Allen July 10, 2008 Page 2 of 2

caliper trees equal 400 square feet of planting credit. This is not correct. This office recognizes 100 square feet of planting credit per 2-inch caliper tree and 50 square feet of planting credit per seedling or shrub. If a large tree is planted in a cluster with either two smaller trees or three shrubs in a 3-5 gallon container, this office will recognize 400 square feet of planting credit for each cluster. Please have the applicant revise the planting plan accordingly.

- 5. It appears that there are three reforestation areas proposed. Please provide the acreage of these areas, and show that they will be placed in a conservation easement. Also, COMAR 27.01.02.04(C)(2) and 27.01.02.05(C)(8) provide that no more than 20% of any forest or developed woodland may be removed from forest use for development activities in the RCA, and that the remaining 80% shall be maintained through recorded, restrictive covenants or similar instruments. Therefore, the applicant should show at least 80% of the existing 4.98 acres of existing forested area in an easement on the plat and plans.
- 6. The applicant indicates that the proposed clearing and grading will be permitted under what seems to be described as an existing Vegetative Management Plan that was previously granted for removing 28 dead or dying trees. This is incorrect and the applicant must obtain a grading permit for the newly proposed clearing and grading.
- 7. Please clarify who is the applicant for the grading permit and who will be responsible for providing the required mitigation plantings. It seems that the Chesapeake Bay Foundation is the responsible party based on its ownership of the land.

Thank you for the opportunity to comment. Please telephone me if you have any questions at (410) 260-3481.

Sincerely,

Amber Widmayer Natural Resources Planner

cc: AA 273-08

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/

June 11, 2009

Ms. Kelly Krinetz Anne Arundel County Office of Planning and Zoning 2664 Riva Road, MS 6305 Annapolis, Maryland 21401

Re: Holly Beach Farm, CBF, Parks C 08-005200NC, G 02013508

Dear Ms. Krinetz:

I have received information regarding the above mentioned site plan for review. The property is within the Critical Area and is designated as a Resource Conservation Area (RCA). Upon this office's last receipt of application materials for this site development plan, the applicant proposed to construct a 1,250 square foot garage and an approximately 9,600 square foot gravel parking lot on an undeveloped 4.98 acre property, and this office provided a July 10, 2008 comment letter.

The most recently submitted application materials indicate that a clearing violation occurred on the property, that the originally proposed permit application has been withdrawn, and only a planting plan has been submitted at this time for review. The planting plan shows proposed plantings to address the clearing violation at a 3:1 ratio for the 23,000 square foot area that was cleared. I have reviewed the planting plan and find that the proposed number and type of plantings are sufficient to address the violation. This office recommends that some of the plantings be located in the area that was cleared to spur the regeneration of that area in vegetative cover.

Thank you for the opportunity to comment. Please telephone me if you have any questions at (410) 260-3481.

Sincerely,

Amber Widmayer Natural Resources Planner

cc: AA 273-08





VICINITY MAP SITE opyright ADC the Mop People Permitting Use #203011635 SCALE: 1'' = 2000

*THE PURPOSE OF THIS CRITICAL AREA REFORESTATION PLAN IS TO TO COMPLY WITH THE MITIGATION REQUIREMENTS ISSUED UNDER A STOP WORK ORDER BY ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTION AND PERMITS DATED JUNE 6, 2008. FOR 23,000 SQ. FT OF UNAUTHORIZED CLEARING WITHIN THE CHESAPEAKE BAY CRITICAL AREA. A TOTAL OF 69,000 SQ.FT. OF REFORESTATION AREA (173 PLANTING UNITS @ 400 SQ. FT. EACH) SHALL BE PLANTED WITHIN THE HATCHED AREAS SHOWN ON THIS PLAN.

ATER MANAGEMENT STATEMENT	
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L5	15.34	S73'24'07"E
L6	119.84	S02'37'15"W
L7	58.88	S73'24'07"E
L8	138.46	\$39'23'16"E
L9	38.35	S54'08'14"E
L10	35.32	S09'04'42"E
L11	115.36	S60'29'06"E
L12	54.24	N67'44'34"E
L13	31.33	N38'09'08"W
L14	49.65	S46'05'18"E
L15	60.25	S44'25'42"E
L16	12.59	S29'16'17"E
L17	40.04	S24'24'26"E
L18	57.11	S11'22'41"E
L19	59.06	S12'45'26"E
L20	45.22	S46'17'55"E
L21	13.33	N77'21'37"E
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L24	50.58	S50'50'05"E
L25	62.22	S64'27'58"E
L26	62.77	S73'27'52"E
L27	65.13	S64'45'10"E
L28	64.24	S32'52'31"E
L29	56.36	S25'45'24"E
L30	14.85	S19'30'18"E
L31	50.73	S19'30'17"E
L32	54.57	S13'46'54"E
L33	41.01	S01"23"50"W
L34	25.58	S16'04'27"E
L35	42.84	S14'45'58"E
L36	24.87	S21'26'49"E
L37	42.37	S29'34'00"E
L38	42.28	S36'02'26"E
L39	1.92	N07'47'01"E

REFORESTATION PLAN

CRITICAL AREA REFORESTATION PLAN*

DRAWN BY L.K.B.	SCALE	AS SHOWN	PARKS PROPERTY
CHECKED BY S.R.K.	SHEET	1 OF 1	HOLLY BEACH FARM ROAD ANNAPOLIS, MD 21401
DATE SEPTEMBER 2005	PROJ. NO.	1915.A	TAX MAP 47, BLOCK 7 PARCEL 47
		G02011698	PLAT BOOK 206 PAGE 31-33 "LOT P.56R
			3RD TAX DISTRICTA. A. CO., MDSCALE: AS SHOWNSEPTEMBER, 2005

RECEIVED

JUL 08 2008

CRITICAL AREA COMMISSION

RESIDUE R - PT 3 OF 4 @ HOLLY BEACH FARM GRADING, SEDIMENT AND EROSION CONTROL AND SITE DEVELOPMENT PLANS AND BUILDING PERMIT SITE PLAN FOR BARN/CAR GARAGE **GENERAL NOTES CONSTRUCTION & MATERIAL SPECIFICATIONS:** I (WE) CERTIFY THAT

ANNE ARUNDEL SOIL CONSERVATION DISTRICT DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT:

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE. PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); ii) FOURTEEN DAYS AS TO ALL DTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE; III) THE ABOVE REQUIREMENTS DO NOT APPLY TO THOSE AREAS WHICH ARE SHOWN ON THE PLAN AND ARE CURRENTLY BEING USED FOR MATERIAL STORAGE OR FOR THOSE AREAS ON WHICH ACTUAL CONSTRUCTION ACTIVITIES ARE CURRENTLY BEING PERFORMED OR TO INTERIOR AREAS OF A SURFACE MINE SITE WHERE THE STABILIZATION MATERIAL WOULD CONTAMINATE THE RECOVERABLE RESDURCE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT THE STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE '1983 MARYLAND

1. PERMANENT SEEDING: A. SOIL TESTS:

SEEDING:

2

LIME AND FERTILIZER WILL BE APPLIED PER SOIL TESTS RESULTS FOR SITES GREATER THAN 5 ACRES. SOIL TESTS WILL BE DONE AT COMPLETION OF INITIAL ROUGH GRADING OR AS RECOMMENDED BY THE SEDIMENT CONTROL INSPECTOR. RATES AND ANALYSES WILL BE PROVIDED TO HE GRADING INSPECTOR AS WELL AS THE CONTRACTOR.

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL'.

- 1. OCCURRENCE OF ACID SULFATE SOILS (GRAYISH BLACK COLOR) WILL REQUIRE COVERING WITH A MINIMUM OF 12 INCHES OF CLEAN SOIL WITH 6 INCHES MINIMUM CAPPING OF TOP SOIL. NO STOCKPILING OF MATERIAL IS ALLOWED. IF NEEDED. SOIL TESTS SHOULD BE DONE BEFORE AND AFTER A 6 WEEK INCUBATION PERIOD TD ALLOW OXIDATION OF SULFATES.
- THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: a. Soil pH shall be less than 6.0 and 7.D. b. Soluble salts shall be less than 500 parts per million (ppm)
- c. The soil shall contain less than 40% day but enough fine grained material (>30% sit plus day) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegross or serecia lespedeza is to be planted, then a sandy soil (<30% silt plus day) would be acceptable.
- d. Soil shall contain 1.5% minimum organic matter by weight. . Soil must contain sufficient pore space to permit adequate root penetration. f. If these conditions cannot be met by soils on site, adding top soil is required in accordance with Section 21 Standard and Specification for Top Soil or amendments made as recommended by certified agronomist.

SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TD A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-10-10 FERTUIZER PER 1,000 SQUARE FEET, HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER

- APPLY 5-6 POUNDS PER 1,000 SQUARE FEET OF TALL FESCUE BETWEEN FEBRUARY 1 AND APRIL 30 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDED DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE WHERE NECESSARY TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. IF DTHER SEED MIXES ARE TO BE USED, SELECT FROM TABLE 25, ENTITLED "PERMANENT SEEDING FOR LOW MAINTENANCE AREAS" FROM THE CURRENT STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MIXES SUITABLE FOR THIS ARE 1, 3 AND 5-7. MIXES 5-7 ARE SUITABLE IN NON-MOWABLE SITUATIONS.
- MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED. MULCH SHALL BE APPLIED IMMEDIATELY AFTER MULCH SHALL BE UNROTTED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE
- OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND, TO A DEPTH OF 1-2 INCHES. E. SECURING STRAW MULCH:
- STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE
- MOVEMENT BY WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED: i) USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR MULCH NTD THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH. HOWEVER, IT IS LIMITED TO RELATIVELY
- FLAT AREA WHERE EQUIPMENT CAN OPERATE SAFELY. (ii) WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. iii) LIQUID BINDERS MAY BE USED. APPLY AT HIGHER RATES AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER O THE AREA SHOULD APPEAR UNFORM AFTER RINDER APPLICATION RINDERS LISTED IN THE 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OF APPRIVED EQUAL SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURERS.
- (iv) LIGHTWEIGHT PLASTIC NETTING MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS
- 2. TEMPORARY SEEDING:
- LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SQUARE FEET. FERTILIZER: 15 POUNDS OF 10-10-1D PER 1,000 SQUARE FEET.
- SEED: PERENNIAL RYE D.92 POUNDS PER 1,000 SQUARE FEET (FEBRUARY THROUGH APRIL 3D OR AUGUST 15 THROUGH NOVEMBER 1). MILLET - 0.92 POUNDS PER 1,00D SQUARE FEET (MAY 1 THROUGH AUGUST 15).
- MULCH: SAME AS 1 D AND E ABDVE.

3. NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL, TO BE PLACED IN APPRDXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN RDADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 AS PER ANNE ARUNDEL COUNTY CODE - ARTICLE 16, SECTION 2-307, AND COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR), ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTED TO A MINIMUM OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER MD-378 CONSTRUCTION SPECIFICATIONS. ALL DTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE. 4. PERMANENT SOL

INSTALLATION OF SOD SHOULD FOLLOW PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE TALL FESCUE, STATE APPRDVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN RDWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOLL ALL SLOPES STEEPER THAN 3-1. AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH AN APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.

5. MINING OPERATIONS: SEDIMENT CONTROL PLANS FOR MINING OPERATIONS MUST INCLUDE THE FOLLOWING SEEDING DATES AND MIXTURES: FOR SEEDING DATES OF:

- FEBRUARY 1 THROUGH APRIL 3D AND AUGUST 15 THROUGH DCTOBER 31, USE SEED MIXTURE OF TALL FESCUE AT THE RATE OF 2 POUNDS PER 1.000 SOUARE FEET AND SERICEA LESPEDEZA AT THE RATE OF 0.5 POUNDS PER 1,000 SQUARE FEET.
- 6. TOPSOIL SHALL BE APPLIED AS PER THE STANDARD AND SPECIFICATION FOR TOPSOIL FROM THE CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
- NDTE: USE OF THIS INFORMATION DOES NDT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

NOTE: PROJECTS WITHIN 4 MILES OF THE BWI AIRPORT WILL NEED TO ADHERE TO MARYLAND AVIATION ADMINISTRATION SEEDING SPECIFCATION RESTRICTION.



- I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH
- MARYLAND AGRICULTURAL EXPERIMENTAL STATION. II. TOPSOILS SPECIFICATIONS - SOIL TO BE USED AS "OPSOIL MUST MEET THE FOLLOWING:
- I. TOPSOIL SHALL BE A LOAM, SANDY LDAM, CLAY LOAM, SILT LDAM, SANDY CLAY LDAM LOAMY SAND. DTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONE, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH DR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
- II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSONGRASS, NUTSEDGE, POISON IV .. THISTLE OR OTHERS, AS SPECIFIED.
- III. WHERE THE SUBSOIL IS EITHER HIGHLY ERODIBLE OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONED SHALL BE SPREAD AT THE RATE OF 4-B TONS/ACRE (200-40D POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
- I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABLIZATION - SECTION I - VEGETATION STABILIZATION METHODS AND MATERIALS.
- IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
- I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
- a. ph for topsoil shall be between 6.D and 7.5. If the tested soil demonstrates A pH OF LESS THAN 6.D, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TD 6.5 OR HIGHER.
- b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
- c. TOPSOIL HAVING SOLUMBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
- d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
- NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPRDVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN PLACE OF NATURAL TOPSOIL
- ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABLIZATION - SECTION I - VEGETATION STABILIZATION METHODS AND MATERIALS
- V. TOPSOIL APPLICATION I. WHEN TOPSOILING, MAINTAIN NEEDED ERDSION AND SEDIMENT CONTROL PRACTICES, SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT
- FENCE, AND SEDIMENT TRAPS AND BASINS. II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED, ALBEIT 4" TO 8" HIGHER IN ELEVATION.
- III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING THALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN FROZEN OR MUDDY CONDITION WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY BE OTHERWISE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- VI. ALTERNATIVE FOR PERMANENT SEEDING INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERICAL FERTILIZER, COMPDSTED SLUDGE, AND AMENDMENTS MAY BE APPLIED AS SPECIFIED
- I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS
- a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
- b. COMPDSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT PDTASSIUM AND HAVE A pH OF 7.D TO B.D. IF THE COMPDST DOES NOT MEET THESE REQUIREMENTS, THE APPRORPIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
- C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1.000 SQUARE FEET.
- d. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICAITONS, SOIL PREPARATION AND SODDING. MD-VA, PUB#1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED, 1973.

STANDARDS AND SPECIFICATIONS FOR TOPSOIL:

DEFINITION PLACEMENT OF TOPSOIL OVER A PREPAPRED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VECETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. CONDITIONS WHERE PRACTICE APPLIES:

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- C. THE DRIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN AND ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.



2661 Riva Road Building 400, Suite 420 Annapolis, MD 21401 410,841,5221 410,266,6612 Fax 410,841,5124

- ITEM PHASE I
- PHASE II

- & MULCH
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MD P.E. License 10991

1. GRID TICS AS SHOWN HEREON ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED BY THE ANNE ARUNDEL COUNTY OFFICE OF PLANNING AND ZONING. (NAD 83).

2. ELEVATIONS AND CONTOURS SHOWN ON THESE PLANS ARE TAKEN FROM A FIELD SURVEY BY RWJAI BASED ON AN ASSUMED SYSTEM DATED APRIL 2003. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND CONTOURS TO HIS OWN SATISFACTION PRIOR TO STARTING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.

3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION SEPTEMBER 1988 AND THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS CONSTRUCTION WITH THE CONSTRUCTION BY THE DTHER CONTRACTORS. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, ETC., DAMAGED OR REMOVED DURING CONSTRUCTION.

THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS DWN SATISFACTION BEFORE STARTING CONSTRUCTION. NEITHER THE OWNER NOR THE ENGINEER WARRANT OR GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE INFORMATION.

7. THE CONTRACTOR SHALL NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS, ANNAPOLIS, MARYLAND (410) 222-7780, 48 HOURS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.

8. UNLESS OTHERWISE INDICATED ON THESE PLANS, BALTIMORE GAS AND ELECTRIC COMPANY IS CUSTODIAN OF ALL UTILITY POLES AND DWNS THEM JOINTLY WITH THE CHESAPEAKE AND POTOMAC TELEPHONE COMPANY OF MARYLAND.

9. ALL POLES SHALL BE BRACED WHEN NECESSARY AT THE CONTRACTOR'S EXPENSE. THE UTILITY POLES SHALL BE RELOCATED AT THE OWNER'S EXPENSE ONLY IN CASES WHERE THEY WILL INTERFERE WITH CONSTRUCTION. 1D. EXCESS MATERIAL FROM EXCAVATION MUST BE PLACED ON AN APPROVED SITE. IF AN

APPROVED SITE IS NOT AVAILABLE THE CONTRACTOR WILL SUBMIT TO THE SOIL CONSERVATION DISTRICT, ANNAPOLIS, MARYLAND (41D) 222-7822, A PLAN FOR APPRDVAL PRIOR TO DUMPING OF EXCESS MATERIAL.

11. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROJECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 12. THE CONTRACTOR SHALL NOTIFY MISS UTILITIES (1-800-257-7777) THREE (3) DAYS

BEFORE STARTING WORK SHDWN ON THESE DRAWINGS. 3. PROPERTY SHOWN HEREON LIES WITHIN ZONE C, AN AREA OF MINIMAL FLOODING AND AREA A9(EL.9) AN AREA OF 100 YEAR FLOODING, SHOWN ON FIRM MAP 21C.

14. ALL UTILITIES INCLUDING GAS, ELECTRIC AND COMMUNICATIONS SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH THE PUBLIC SERVICE COMMISSIONS STATEWIDE. RULES OF JULY 14, 1968.

15. THIS PROPERTY IS SERVED BY A SHARED PRIVATE WELL AND INDIVIDUAL PRIVATE SEPTIC SYSTEMS. 16. THERE ARE NO WETLANDS ON SITE.

CONSULTANT'S CERTIFICATION:

"THE DEVELOPERS PLAN TO CONTROL SILT AND EROSION IS ADEQUATE TO CONTAIN THE SILT AND EROSION ON THE PROPERTY COVERED BY THE PLAN. I CERTIFY THAT THIS PLAN BASED ON MY PERSONAL KNOWLEDGE OF THIS SITE, AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT PLAN SUBMITTAL GUIDELINES AND THE CURRENT MARYLAND STANDARDS AND SEPCIFICATIONS FOR SEDIMENT AND EROSION CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

> THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS F THE STATE OF MARYLAND, LICENSE NO 0991, EXPIRATION DATE; 6-23-08."

- 1. A. ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN, AND FURTHER, AUTHORIZED THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT BOARD OF SUPERVISORS OR THEIR AUTHORIZED
- B. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF TH ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. RESPONSIBLE PERSONNEL ON SITE: JEROME PARKS
- IF APPLICABLE, THE APPROPRIATE ENCLOSURE WILL BE CONSTRUCTED AND MAINTAINED ON SEDIMENT BASIN(S) INCLUDED IN THIS PLAN. SUCH STRUCTURE(S) WILL BE IN COMPLIANCE WITH THE ANNE ARUNDEL COUNTY CODE.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACEINT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN.
- 3. INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS FOR THE SURFACE SURFACE OF ALL CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND FOURTEEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. TEMPORARY STABILIZATION OF THE SURFACE OF PERIMETER CONTROLS, DIKES, SWALES, DITCHES AND PERIMIETER SLOPES MAY BE ALLOWED AT THE
- DISCRETION OF THE SEDIMENT CONTROL INSPECTOR. 4. THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK.
- 5 THE APPROVAL OF THIS PLAN FOR SEDWENT AND FROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL, STATE OR COUNTY REQUIREMENTS APPERTAINING TO ENVIRONMENTAL ISSUES.
- 6. THE DEVELOPER MUST REQUEST THAT THE SEDIMENT CONTROL INSPECTOR APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSIDN AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
- ALL MATERIALS SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND CONTROL PLAN. 8. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES, APPROVAL OF THE SEDIMENT CONTROLS INSPECTOR SHALL BE REQUIRED ON COMPLETION OF INSTALLATION OF PERIMETER ERDSION AND SEDIMENT CONTROLS, BUT BEFOR PROCEEDING WITH ANY DTHER EARTH DISTURBANCE OR GRADING. THIS WILL REQUIRE FIRST PHASE. INSPECTIONS. GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IS GIVEN.
- 9. APPROVAL SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS. EXISTING TOPPOGRAPHY MUST BE FIELD VERIFIED BY RESPONSIBLE PERSONNEL
- TO SATISFACTION OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK

JEROME PARKS DEVELOPERS/OWNERS N/A AFFILIATION: 1764 Holly Beach Farm Road

Annapolis, MD. 21401 TELEPHONE: (410)-268-4690

ADDRESS:



BUILDING PERMIT SITE PLAN/HEALTH DEPT. NOTE THIS BUILDING PERMIT IS FOR THE CONSTRUCTION OF A BARN/CAR GARAGE. WELL AND SEPTIC ARE NOT PROPOSED WITH THIS PERMIT.





GENERAL SWM NOTE BMP#6 ENVIRONMENTALLY SENSITIVE CREDIT UTILIZED. NO STRUCTURAL DEVICES. SEE SHT. 3.





Permitting Use #203011635

CHESAPEAKE BAY FOUNDATION INC. 6 HERNDON AVE. ANNAPOLIS, MD 21403 APPLICANT JERRY PARKS 1764 HOLLY BEACH FARM RD ANNAPOLIS, MD 21401 410-268-4690

AREA TABULATIONS

TOTAL SITE AREA (RESIDUE PT 3 OF 4)	4.977 AC.±
DISTURBED AREA	0.60 AC.±
TO BE MECHANICALLY STABILIZED	0.28 AC.±
TO BE VEGETATIVELY STABILIZED	0.32 AC.±
TOTAL CUT	20 C.Y. ±
TOTAL FILL	20 C.Y. ±
EXISTING ZONING CRITICAL AREA DESIGNATION	RLD RCA

RLD ZONING	ULATIONS
TOTAL SITE AREA (RCA)	4.977 AC. (PER PLAT)
TOTAL ALLOWABLE IMPERMOUS	0.75 AC. (15% PER CODE)
PROP. IMPERVIOUS	0.28 AC.
TOTAL WOODLAND ON SITE:	4.977 AC.
ALLOWABLE CLEARING (20%):	0.99 AC.
PROPOSED CLEARING:	0.57 AC.
REFORESTATION REQUIRED (1:1)	0.57 AC.

RLD SETBACKS

FRONT -		100'
SIDE -	20'/50'	COMB.
CORNER SIDE -		40'
REAR -		40'
SIDE STREET -		40'
MIN. WIDTH @ B.R.L.	-	150'
MAX. HEIGHT -		45'

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	INDEX TO SHEETS
NO.	
1 of 3	GRADING, SEDIMENT AND EROSION CONTROL, NOTES & DETAILS/SITE DATA
2 of 3	40 SCALE PLANVIEW & ON/OFFSITE REFORESTATION PLAN
3 of 3	DRAINAGE AREA MAP & STORMWATER MANAGEMENT PLAN

(BUIDING PERMIT SITE PLAN 1 OF 3) GRADING. SEDIMENT AND EROSION CONTROL NOTES & DETAILS/SITE DATA

GRADING, SEDIMENT & EROSION C	ONTROL	& SITE	DEVELOPMENT PLANS
	SCALE	AS SHOWN	RESIDUE R - PT 3 OF 4
	DRAWN BY	GMLM	HOLLY BEACH FARM ROAD
	CHECKED BY: 51/	CYK@RWJW.COM	ANNAPOLIS, MD 21401 TAX MAP 47. BLOCK 14. P/O PARCEL 47
	SHEET	#1 OF #3	PARKS AND GATELY PROPERTIES P.B. 206, PG3 31 - 33
	PROJECT NO.	#2333.00	JAD 83; ZONING ALD ANNE ARUNDEL CO., MD
	- PROPOSAL NO	2.:	SCALE: AS SHOWN NOV., 2007





	SWM SUMMARY TABLE	
CRITERIA	HOW ADDDRESSED	BMP
WATER QUALITY-	WATER QUALITY HAS BEEN ADDRESSED VIA THE ENVIRONMENTALLY SENSITIVE CREDIT	#6
RECHARGE- Rev	RECHARGE HAS BEEN PROVIDED VIA THE ENVIRONMENTALLY SENSITIVE CREDIT	# 6
CHANNEL PROTECTION- Cpv	NOT REQUIRED, NO ROADS	N/A
OVERBANK FLOOD PROTECTION- Qp	NOT REQUIRED, NO ROADS NON-EROSIVE VELOCITIES; ADEQUATE OUTFALL	N/A
EXTREME FLOOD-	DEVELOPMENT OUTSIDE OF FLOODPLAIN - NOT REQUIRED.	N/A

GRADING, SEDIMENT & EROSION CO	ONTROL	& SITE	DEVELOPME	NT PLANS
	SCALE	AS SHOWN	RESIDUE R	- PT 3 OF 4
	DRAWN BY	GMLM	HOLLY BEAC	H FARM ROAD
	- CHECKED BY: ST	ACYK@RWJAI.COM	ANNAPOLI TAY HAD AT DI CO	S, MD 21401
	SHEET	#3 OF #3	PARKS AND GATELY PRO	PERTIES" P.B. 206, PG's 31 - 33
	PROJECT NO.	: #2333,00	NAD 83; Z	ONING RLD
	PROPOSAL N	0.:	SCALE: AS SHOWN	NOV., 200