

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 9, 2007

Ms. Pam Cotter Anne Arundel County Office of Planning and Zoning 2664 Riva Road, MS 6301 Annapolis, Maryland 21401

Re: Lance Johnson, Lot 1R, Mulberry Hill 2007-0131-V

Dear Ms. Cotter:

This office has received the above-referenced variance request for review and comment. The site is located in a Limited Development Area (LDA). The applicant proposes to construct a single-family dwelling that will impact steep slopes. Provided this lot is properly grandfathered, this office does not oppose the placement of a reasonably-sized single family dwelling on this lot; however, based on the site plan submitted, I have the following concerns.

- The size of the proposed dwelling does not appear to be the minimum disturbance necessary to develop this lot. While it is our understanding these are man-made slopes, neither the County Ordinance language nor the Critical Area regulations differentiate between natural versus man-made slopes, and any impacts to slopes can create negative environmental impacts.
- The applicant has the burden to demonstrate unwarranted hardship. The lot already enjoys a single family dwelling. While we do not oppose expansions of dwellings, those expansions must show minimization. It does not appear the current plan demonstrates minimization to the steep slopes on this lot.
- We recommend the applicant find alternative and creative ways to redevelop the site with less impacts to the steep slopes. We understand the slopes bisect the lot, however, it does not appear an effort was made to minimize disturbance. For example, if the existing dwelling will remain and there needs to be a connection to it, perhaps a narrower connection could be made. Alternatively, a new dwelling could be located on the northern side of the lot to avoid the slopes.

Ms. Cotter July 9, 2007 Page Two

- If a variance is granted, mitigation at a 3:1 ratio shall be provided for all new disturbance to the steep slope area. Disturbance includes grading, footprint and clearing.
- Since the site is in the LDA, and there is currently not 15% forest cover, afforestation is required. The planting plan provided shows the appropriate amount of afforestation, however, it appears the planting proposed will address both the afforestation requirement and the stormwater management planting. These two plantings cannot be combined. Therefore, the planting plan must be amended to show plantings that address the afforestation requirement and the stormwater plantings requirement. Any required mitigation plantings for impacts to steep slopes may be combined with the afforestation plantings.

In summary, this office cannot support the proposed dwelling as currently shown on the site plan; however, an alternative that shows less impacts to the slopes might be acceptable.

Thank you and the Office of Administrative Hearings for keeping the record open to allow this office the opportunity to comment on this request. Please include this letter as part of the record for variance. Please notify this office of the decision made in this case.

Sincerely,

Sura A Doceger

Lisa A. Hoerger, Chief Project Evaluation Division

cc: Mr. Stephen LeGendre, Esquire – Administrative Hearing Officer AA 383-07

383-07 EH

IN THE OFFICE OF ADMINISTRATIVE HEARINGS

CASE NUMBER 2007-0131-V

IN RE: LANCE JOHNSON

THIRD ASSESSMENT DISTRICT	AUG 1 2007
DATE HEARD: JUNE 19, 2007	CRITICAL AREA COMMISSION
LAST EVIDENCE: JULY 19, 2007	Chesapeake & Atlantic Coastal Bays

ORDERED BY: STEPHEN M. LeGENDRE, ADMINISTRATIVE HEARING OFFICER

PLANNER: PATRICIA A. COTTER

DATE FILED JULY 30, 2007

PLEADINGS

Lance Johnson, the applicant, seeks a variance (2007-0131-V) to allow a dwelling addition with disturbance to steep slopes on property located along the east side of Mulberry Hill Road, east of Providence Road, Annapolis.

PUBLIC NOTIFICATION

The hearing notice was posted on the County's web site in accordance with the County Code. The file contains the certification of mailing to community associations and interested persons. Each person designated in the application as owning land that is located within 175 feet of the property was notified by mail. sent to the address furnished with the application. Mr. Johnson testified that the property was posted for more than 14 days prior to the hearing. However, protestants Wanda Stansbury and Marilyn Harris Davis disputed the effectiveness of the posting because the property is accessed across a graveled easement approximately 200 feet in length and the sign was placed approximately 50 feet inside the western boundary. Anne Arundel County Code, Article 18, Section 18-16-203(d)(2) provides in pertinent part: "(i)f the property does not abut a public road, one or more signs shall be posted in locations that can be readily seen by the public." It would have been preferable for the applicant to post an additional sign in the access easement near Mulberry Hill Road. Nevertheless, the hearing was well attended. In the circumstances, I find and conclude that there has been substantial compliance with the notice requirements.

1

FINDINGS AND CONCLUSIONS

The applicant owns a single-family residence with a street address of 2213 Mulberry Hill Road, also identified on Tax Map 46, Block 16, Parcel 298. The property comprises 27,878 square feet and is zoned R2 residential with a Chesapeake Bay Critical Area designation as Limited Development Area (LDA). This is a waterfront lot on Mill Creek. The request is to construct an irregularly configured (16 to 48 by 63 feet) north side addition with disturbance to steep slopes.

Anne Arundel County Code, Article 17, Section 17-8-201 proscribes the disturbance of steep slopes in the LDA. Accordingly, the proposal requires a variance to disturb steep slopes.

Patricia A. Cotter, a planner with the Office of Planning and Zoning, testified that steep slopes characterize the center portion of the property. The septic system in the rear yard (street side) is a further constraint on development. The applicant is proposing a large addition. On the other hand, the dwelling cannot be expanded absent impact to the slopes and the request is consistent with other development in the neighborhood. The witness summarized the agency comments. The Department of Health requested plan approval. The County's Development Division indicated that the impervious coverage limitation is 15 percent. The record was left open for the submission of the written comments of

2

the Chesapeake Bay Critical Area Commission (Attachment A)¹. By way of ultimate conclusion, Ms. Cotter supported the request.

Ed Brown, a land surveyor employed by the applicant, testified that the project disturbs 850 square feet of manmade slopes. The existing two-story dwelling has a footprint of 470 square feet. The addition has a footprint of 2,280 square feet, inclusive of garage. The approved septic design allows up to 3,500 square feet of finished living space. The applicant is proposing 3,400 square feet of living space, with the new construction partially one story, partially one and one-half stories and partially two stories. Mr. Brown indicated that the project includes stormwater management in the form of roof disconnects and plantings. He opined that the variance standards are satisfied.

Eric See, an environmental consultant to the applicant, submitted a Critical Area Report. The property is predominately a mowed lawn. A portion of the driveway would be removed to conform to the 15 percent impervious coverage limitation. The buffer and stormwater plantings included as part of the grading plan represent an improvement to habitat and water quality. The witness also opined that the variance standards are satisfied.

Mr. Johnson testified that he purchased the property in April 2000. He submitted several site and neighborhood photographs, including photographs of recently constructed and reconstructed two and three story dwellings in the

¹ This office provided a copy of the Commission's letter dated July 9, 2007 to the applicant's counsel and to Ms. Stansbury for review and comment by July 20, 2007. Counsel to the applicant's response dated July 18, 2007 is appended as Attachment B. Ms. Stansbury did not respond.

neighborhood.² The witness believes that the denial of the application is a denial of reasonable use because there is no other opportunity to expand the dwelling.

Ms. Stansbury summarized her written statement in opposition to the application. In brief, the project will have an adverse impact to water quality and fish and wildlife habitat; the site plan does not accurately depict the proximity to tidal wetlands; the proposal for stormwater management may be ineffective; the project represents a special privilege; the applicant's right of access to the driveway serving the Stansbury dwelling is disputed; and the proposal will block her view to water.

On questioning by counsel to the applicant, Ms. Stansbury acknowledged that her home has a partially finished walkout basement with two-car garage, a main living level and a partial attic (plumbed). The estimated living space is 4,000 square feet.

Ms. Davis, who resides three properties to the north, questioned the accuracy of the applicant's plan with respect to the location of floodplains and tidal wetlands.

I visited the site and the neighborhood. The property is assessed across a long driveway that slopes downhill from Murray Hill Road. The driveway terminates in an expansive parking area. A steep bank ascends from the south side

² Mr. Johnson also supplied decisions by this office in Case No. 2003-0068-V, In Re: Albert Johnson (May 16, 2003); and Case No. 2002-0170-V, In Re: Edwin Darwin (July 25, 2002). Case No. 2003-0068-V concerns Ms. Stansbury property to the rear (2211 Mulberry Hill Road). The Order conditionally approved a single-family dwelling with disturbance to steep slopes. Case No. 2002-0170-V concerns property with a street address of 2215 Mulberry Hill Road. The Order approved a variance to disturb steep slopes to allow a dwelling.

of the parking area to a small plateau. The dwelling is perched near the northern edge of the plateau and near the front edge of the plateau. The rear yard is a fairly level lawn. A level lawn also extends down to the water. Older cottages and some newer, larger homes characterize the neighborhood. The two-story dwelling to the north is slightly forward of the applicant's dwelling. Ms. Stansbury's dwelling is at a higher elevation and distant from the applicant's dwelling.

The standards for granting variances are contained in Section 18-16-305. Under subsection (b), for a property in the Critical Area, a variance to the Critical Arca program requirements may be granted only after determining that (1) due to unique physical conditions, peculiar to the lot, a strict implementation of the program would result in an unwarranted hardship to the applicant; (2) a literal interpretation of the program will deprive the applicant of rights commonly enjoyed by other properties in similar areas within the Critical Area; (3) the granting of the variance will not confer on the applicant any special privilege that would be denied by the program to other lands within the Critical Area; (4) the variance request is not based on circumstances resultant of actions by the applicant and does not arise from conditions relating to land use on neighboring property; and (5) the granting of the variance will not adversely affect water quality or adversely impact fish, wildlife or plant habitat within the Critical Area and will be in harmony with the general spirit and intent of the program. Under subsection (c), any variance must be the minimum necessary to afford relief; and its grant may not alter the essential character of the neighborhood, substantially impair the

5

appropriate use or development of adjacent property, or be detrimental to the public welfare. The law is settled that the applicant's burden of proof is to satisfy all of the criteria.

Upon review of the facts and circumstances, I find and conclude that the applicant is entitled to modified, conditional relief from the code. Considering first the subsection (b) criteria, for this Critical Area property, due to the location of a comparatively compact band of steep slopes proximate to the dwelling near the center of the lot, a strict application of the program would result in an unwarranted hardship. Under a literal application of the program, the applicant would be denied the right to expand the dwelling, a right commonly enjoyed by other properties in similar areas of the Critical Area. Conversely, the granting of some relief is not a special privilege that the program typically denics to other Critical Area lands. I further find that the variance is not the result of the actions of the applicant or land use on neighboring property. Finally, with mitigation and other conditions, the grant of a modified variance will not adversely impact Critical Area assets and harmonizes with the general spirit and intent of the program.

The more difficult aspect of the application is to ascertain the minimum relief under subsection (c). On the one hand, the dwelling cannot be expanded without disturbing the slopes. On the other hand, the applicant is proposing a substantial expansion that extends beyond the slopes on the north side of the existing dwelling and also encompasses the majority of the slopes in front of the

6

existing dwelling. There is no way to expand the existing dwelling while still preserving any of the slopes on the north side. But pulling back the front façade of the addition to the leading edge of the stairs projecting from the porch addition to the existing dwelling will reduce the disturbance to the slopes in the front yard. So modified, the granting of conditional relief will not alter the essential character of the residential neighborhood, substantially impair the use or development of adjacent property, or constitute a detriment to the public welfare. These findings consider the development in the surrounding neighborhood, including development under approved variances. The modified variance is subject to the conditions in the Order.³

ORDER

PURSUANT to the application of Lance Johnson, petitioning for a variance to allow a dwelling addition with disturbance to steep slopes; and

PURSUANT to the notice, posting of the property, and public hearing and in accordance with the provisions of law, it is this 20 day of July, 2007,

ORDERED, by the Administrative Hearing Officer of Anne Arundel County, that the applicant is **granted** a **modified** variance to disturb steep slopes. The approval is subject to the following conditions:

³ I have included additional conditions restricting any other new development and requiring a reduction in the limits of disturbance to five feet in the front yard.

- The site plan is revised to pull back the front façade of the addition to the leading edge of the stairs projecting from the porch addition to the existing dwelling.
- The site plan is revised to reduce the limits of disturbance to 5 feet in the front yard.
- No further expansion of the dwelling is allowed and no new accessory structures are allowed.
- 4. The applicant shall provide mitigation, afforestation and

stormwater management as determined by the Permit Application Center.

Stephen M. LeGendre

Stephen M. LeGendre Administrative Hearing Officer

NOTICE TO APPLICANT

Within thirty days from the date of this Decision, any person, firm, corporation, or governmental agency having an interest therein and aggrieved thereby may file a Notice of Appeal with the County Board of Appeals.

Further Section 18-16-405(a) provides that a variance expires by operation of law unless the applicant obtains a building permit within eighteen months. Thereafter, the variance shall not expire so long as construction proceeds in accordance with the permit.

If this case is not appealed, exhibits must be claimed within 60 days of the date of this Order, otherwise that will be discarded.

P. 02/03

Margaret G. McHale

Chair

Ren Serey

Executive Director

Martin O'Malley Governor

Anthony G. Brown Li. Governor



STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAXS

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

attachment A

July 9, 2007

Ms. Pant Cotter Anne Arundel County Office of Planning and Zoning 2664 Riva Road, MS 6301 Annapolis, Maryland 21401

Re: Lance Johnson, Lot IR, Mulberry Hill 2007-0131-V

Dear Ms. Cotter:

This office has received the above-referenced variance request for review and comment. The site is located in a Limited Development Area (LDA). The applicant proposes to construct a single-family dwelling that will impact steep slopes. Provided this lot is properly grandfathered, this office does not oppose the placement of a reasonably-sized single family dwelling on this lot; however, based on the site plan submitted, I have the following concerns.

- The size of the proposed dwelling does not appear to be the minimum disturbance necessary to develop this lot. While it is our understanding these are man-made slopes, neither the County Ordinance language nor the Critical Area regulations differentiate between natural versus man-made slopes, and any impacts to slopes can create negative environmental impacts.
- The applicant has the burden to demonstrate unwarranted hardship. The lot already enjoys a single family dwelling. While we do not oppose expansions of dwellings, those expansions must show minimization. It does not appear the current plan demonstrates minimization to the steep slopes on this lot.
- We recommend the applicant find alternative and creative ways to redevelop the site with less impacts to the steep slopes. We understand the slopes bisect the lot, however, it does not appear an effort was made to minimize disturbance. For example, if the existing dwelling will remain and there needs to be a connection to it, perhaps a narrower connection could be made. Alternatively, a new dwelling could be located on the northern side of the lot to avoid the slopes.

Ms. Cotter July 9, 2007 Page Two

- If a variance is granted, mitigation at a 3:1 ratio shall be provided for all new disturbance to the steep slope area. Disturbance includes grading, footprint and clearing.
- Since the site is in the LDA, and there is currently not 15% forest cover, alforestation is required. The planting plan provided shows the appropriate amount of afforestation, however, it appears the planting proposed will address both the afforestation requirement and the stormwater management planting. These two plantings cannot be combined. Therefore, the planting plan must be amended to show plantings that address the afforestation requirement and the stormwater plantings requirement. Any required mitigation plantings for impacts to steep slopes may be combined with the afforestation plantings.

In summary, this office cannot support the proposed dwelling as currently shown on the site plan; however, an alternative that shows less impacts to the slopes might be acceptable.

Thank you and the Office of Administrative Hearings for keeping the record open to allow this office the opportunity to comment on this request. Please include this letter as part of the record for variance. Please notify this office of the decision made in this case.

Sincerely,

Suria. Placeder

Lisa A. Hoerger, Chief Project Evaluation Division

cc: Mr. Stephen LeGendre, Esquire – Administrative Hearing Officer AA 383-07

attachment B

SUSAN T. FORD

E-Mail: Ford@cbknlaw.com Telephone Extension: 3410



July 18, 2007

Stephen M. LeGendre, Esq. Office of Administrative Hearings Arundel Center P.O. Box 2700 Annapolis, Maryland 21404-2700

RE: Lance Johnson; Case NO. 2007-0131-V



Dear Mr. LeGendre:

Thank you for forwarding the Chesapeake Bay Critical Area Commission comments regarding the above-referenced matter. I have attached hereto written comments from See Environmental Services, Inc. and Ed Brown & Associates, inc. addressing the issues raised by the Commission.

I note that the Chesapeake Bay Critical Area Commission did not oppose the requested variance in case No. 2003-0068-V (a copy of the Opinion was submitted into the record) for a variance to steep slopes on the adjacent property currently owned by Protestant Wanda Stansbury to build a 3-4 story house with a house foot print of 1972 square feet (leaving a potential for 7888 square feet of living space) plus a 816 square foot garage (2788 square feet total footprint). As with the case at hand, the only requested variance was only for steep slope impact. The proposed house in the case at hand has a lesser size footprint of 2705 square feet (and less proposed living space) than Ms. Stansbury's house. even taking into account the square footage of the existing cottage structure.

In the case at hand, the testimony was clear that due to the buffer and required location for the septic system on site, there was no other place available on site to expand the existing cottage. The lot is long and narrow and the proposed addition is set back as far from the water as is possible given the need for driveway and septic system. As discussed by Mr. See, the intent of the Critical Area law in protecting steep slopes is to manage potential erosion of the slopes which could lead to siltation of the Bay. The house is set back 145 feet from the water with significant additional plantings between the proposed addition and the Bay thereby making it clear there will be no adverse impacts to water quality and fish and wildlife habitat.

The property owner is entitled to a "reasonable and significant" use of his property. Substantial unrebutted evidence including photographs of other houses was introduced at the hearing regarding many other houses of the same size and character located in the vicinity, many much closer to the water and on steep slopes than the addition proposed in the case at hand, to show what constitutes a "reasonable and significant" use of property in this vicinity. The existing cottage structure clearly does not constitute a "reasonable and significant" use of

125 West Street, 4th Floor, Post Office Box 2289, Annapolis, Maryland 21404

COUNCIL·BARADEL KN KOSMERL & NOLAN, P.A. A T T O R N E Y S A T L A W Stephen LeGendre, Esq.

Page 2 July 18, 2007

the property given the development permitted in the immediately surrounding area and indeed the Commission recognized that it does not oppose house expansions per se.

The Commission in its July 9, 2007 comments suggests that minimization could involve avoiding the steep slopes even though they bisect the lot, or that a narrower connection between the existing cottage and any addition should be considered. (It does not appear that the Commission is arguing that the existing dwelling can not be expanded.) The Commission suggests the house be located on the North side of the property to avoid the slopes. It would not be possible to do this (and impliedly leave in place the cottage and existing slopes) as the County Zoning Code would not allow two principal structures on one lot. If only one structure was built, it would have to be closer to the water and buffer outside of the steep slopes. The applicant attempted to avoid moving any closer to the water. Any addition to the existing cottage necessitates disturbing the slopes on site, a narrower addition could not produce any environmental gain because the only potential environmental issue, erosion and runoff, is already being managed through maintaining the maximum distance to the shoreline and installing significant additional plantings between the proposed addition and the shoreline. Given the realities of construction, the L.O.D. remains the same no matter how wide or narrow the connector between the addition area and the existing cottage. The site plan colored by Ed Brown & Associates, Inc. indicates the areas of steep slope in yellow with the only area of permanent impact to the steep slopes hatched. As you can see, all steep slope impact is well outside of the buffer and as far away from the water as possible. Thus the applicant has demonstrated minimization.

Accordingly, the applicant respectfully requests that the variance requested be granted.

Very truly yours,

Susan T. Ford

cc: Clients

SEE ENVIRONMENTAL SERVICES, INC.

Ms. Susan T. Ford, Esq. Council, Baradel 125 West Street Annapolis, MD 21401

July 18, 2006

RE: Variance Case 2007-0131-V; Lance Johnson

Dear Ms. Ford:

At your request, I have reviewed the comments received from the State Critical Area Commission, dated July 9, 2007, in light of the current site plan and my familiarity with existing site conditions and Mr. Johnson's plans for the property.

Comments #1: Ms. Hoerger is correct that the Critical Area regulations do not specifically distinguish between natural and manmade slopes, and her concluding sentence says negative impacts "...can." occur, but we feel that they will not necessarily occur.

The extent to which impacts to an isolated section of steep slope (of either origin) may occur can be assessed to several criteria: Distance of the slope from the waterway or shoreline; the steepness slope and type of vegetation between the section of steep slope and the waterway, and the condition of the steep slope itself.

In this case, the isolated section of steep slope is well removed from the shoreline, the intervening ground has a very gentle slope and is well vegetated with grass. I would conclude that even if there were *no* sediment controls, it is unlikely that any sediment could wash across the intervening ground to reach tidal waters, but with the required super silt fence, we can conclude that there would be **no** rupoff from the house construction. Moreover, the existing isolated section of steep slope – as created by the former property owner -- is by itself not completely stable, showing areas of existing erosion and incomplete grass cover. Therefore, the

Comments #2 and #3: There was careful testimony at the hearing on the reasons why the location of the house addition cannot be moved on the lot – save for completely demolishing the existing house and building a larger house extending closer to the water. This option would not require a variance, but would not be environmental preferable, and would sacrifice an interesting older home. Considering the current tendency of waterfront reconstructions to wipe out older homes with character, the variance better keeps the overall home in better character with the neighborhood.

The Woodbridge Center 2444 Solomons Island Road, Suite 217 Annapolis, Maryland 2140) Tel: (410) 266-3828 Fax: (410) 266-3866 Response to CAC Comments Ms. Susan T. Ford July 18, 2007

Comment #5: We do not disagree with this comment, and the planting requirements will be reviewed by County staff during the Grading Permit process, based on the requested variance conditions for replanting and the County Code for stormwater plantings and afforestation.

If you have any questions on this report, please feel free to call this office at any time.

Sincercly,

Eric E. See, President See Environmental Services, Inc.

ED BROWN & ASSOCIATES, INC.

EDWARD A. BROWN L.S. President

DOUGLAS D. BOURQUIN Vice President Land Surveyors - Planners PLAZA ONE BUILDING

Phone 410-757-2002

Fax 410-757-2011

PLAZA ONE BUILDING 1511 Ritchie Hwy Suite 301 Arnold, MD 21012

July 17, 2007

Susan Ford, Esquire Council, Baradel, Kosmerl and Nolan, P.A. P.O. Box 2289 Annapolis, Maryland 21404-2289

RE: Lance Johnson 2213 Mulberry Hill CASE #: 2007-0131-V

Dear Ms. Ford:

Regarding the above-referenced case and in accordance with the attached high-lighted plan we offer the following information to respond to the July 9, 2007, Critical Area Commission Comments.

- 1. The site Area is 27, 878 square feet.
- 2. The area of the site that lies within the 100' buffer is 12,600 square feet or 45% of the Lot.
- 3. The area of steep slopes on site is 5,648 square feet with only 1,004 square feet or 18% of that area being located within the 100' buffer.
- 4. The area of permanent structural steep slope disturbance is 680 square feet or 2.4% of the lot.
- 5. The total ultimate footprint for the Lance Johnson house as proposed will be 2,705 square feet. (This compares well with the 2,788 square feet Stansbury footprint Case 2003-0068-V behind the subject property.)
- 6. A "narrowing" of the connection between the existing structure and the proposed structure would only eliminate around 56 square feet of permanent structural disturbance of the steep slopes and would not eliminate any "overall" slope disturbance since the disturbance required to construct the main house footprint would still "overlap" the area of structural disturbance.

Ed Brown & Associates 7/18/2007; 04-215; LETTER In general, since 45% of the lot lies in the 100' buffer and since 82% of the steep slopes lie landward of the 100' buffer line, this lot demonstrates its unique characteristics since the opposite of this is generally the rule. Normally, the steeper portions of a waterfront lot lie closer to the water rather than further away.

Also, the fact that permanent, structural disturbance to steep slopes (non-forested slopes, I may add) has been limited to just 680 square feet of slope area, or 2.4% of the lot area, all of which is located well beyond the 100' buffer line, demonstrates that the applicant has sought to minimize impacts to the environmentally sensitive features on-site.

I hope you will find this analysis helpful in formulating your response to Lisa Hoerger. Feel free to attach this letter/plan in with your response package. Please call me if you have any further questions.

Sincerely,

Daro AS Douglas D. Bourquin

wing initial soil disturbance or redisturbance, permonent or temporary stabilization shall be completed within seven calendar days the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 logi (31) and fourteen days for all other distances.	- 3'
ical (3:1) and fourteen days for all ather disturbed or graded areas on the project site. Permanent Seeding: A. Soll tests: Lime and fertilizer will be applied per soll tests results for site areater than 5 acres. Soil tests will be done	50' MINIMUM
at completion of initial rough grading or as recommended by the sediment control inspector. Rates and analyses will be provided to the grading inspector as well as the contractor.	
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 to allow axidation of sulfates.	DP BETTER MINIMUM 6' DF 2'-3' AGGREGAN
The minimum soli conditions required for permanent vegetative establishment are: a. Solis pH shall be between 6.0 and 7.0. b. Soluble salts sholl be less than 500 parts per million (ppm).	EXISTING CROUND DVER LENGTH AND WIDTH OF STRUCTURE
c. The soil shall contain less than 40% clay but enough fine grained materiol (.30% silt plus cloy) to provide the capacity to hold a moderate amount of moisture. A exception is if lavegrass or serecia lespedeza is to be planted, then a sandy sall (.30% silt plus clay) would be acceptable.	<u>PRUFILE</u>
d. Soils shall contain 1.5% minimum organic matter by weight. e. Soil must contain sufficient pare space to permit adequate root penetration. f. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Service Ot	# 50' MINIMUM
Standard and Specification for Topsoll or amendments made as recommended by a certified agronomist. B. Seedbed Preparation: The top is be seeded shall be loose and friable to a depth of at least 3 inches. The top layer shall	
100 pounds of dolomitic limestone and 21 pounds of 10–10–10 fertilizer 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 than 3:1.	
C. Seeding: 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 seeder, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only).Maximum seed depth should be	VIDTH
1/4 Inch in clayey solls and 1/2 Inch in sandy solls when using other than the hydroseeder method. Irrigate if soll moisture is deficient to support adequate growth until vegetation is firmly established. If other seed mixes are to be used, select from Table 25, entitled "Permanent Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas" from the current Standards and Seeding For Low Maintenance Areas "from the current Standards and Seeding For Low Maintenance Areas "from the cur	
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. D. Mulchina: Mulch shall be applied to all seeded areas immediately after seeding. During the time set of	STANDARD SYMROL PLAN VIEW
not permitted, mulch shall be applied to un seeded areas immediately after seeding. During the time periode when seeding is not permitted, mulch shall be applied immediately after grading. Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 seture feet (2 holes). If a mulch casted a hol to a splied of a rate of 2 tons per acre or 90 pounds per 1,000	
square reet (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.	construction Specificotion
 c. securing strow mulch: Strow 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 into the soil surface to a maximum 	2. Width - 10° minimum, should be flared at the existing road
depth of 2 Inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely. (1) Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a pet day wolfth of 750 and a	radius, 3. Geotextile fabric (filter clath) shall be placed over the e
per acre. If mixed with water, use 50 pounds of wood cellulose fiber per 100 gallons of water. (iii) Liquid binders may be used and applied heavier at the edges where wind catches mulch, such as in valleys and	to placing stone. ##The plon oppravol outhority moy nat requires idences to use geatextile,
on crests of slopes. The remainder of the area should appear uniform after binder application. Binders listed in the 1994 Standards and Specifications for Soil Erosion and Sediment Control or approved equal shall be applied at rates recommended by the manufacturers.	4. Stone - crushed aggregate (2' to 3') or reclaimed or recycle equivalent stall be alared at least 6' days class the least of
(Iv) Lightweight plastic netting may be used to secure mulch. The netting will be stapled to the ground according to manufacturer's recommendations.	equivalent since be ploced of leost 6° deep over the length on entrance.
Lime: 100 pounds of dolomitic limestone per 1,000 square feet. Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.	5. Surface Water - all surface water flawing to ar diverted to entronces shall be piped through the entronce, maintaining pos
Seeu: rerenniai rye – 0.92 pounds per 1,000 square feet (February 1 through April 30 or August 15 through November 1). Millet – 0.92 pounds per 1,000 square feet (May 1 through August 15).	instolled through the stobilized construction entronce sholl k mountable bern with 5:1 slapes and a minimum of 6' of stone av to be sized according to the drainane. When the SCF is increte
Muich: Same as 1 D and E above. o fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose lickness of not more than 8 Inches. All fill in roadways and parking area is to be classified. The 2 de per Appe	has no drainage to convey o pipe will not be necessary. Pipe according to the amount of runaff to be conveyed. A 6° minimum
winty Code – Article 21, Section 2–308, and compacted to 90% density: compaction to be determined by ASTM-D1557-66T STM-D1557-66T (Modified Proctor). Any fill within the bullding area is to be compacted to a minimum of 95% density as termined by methods previously mentioned File for none embandmente shell be compacted to a minimum of 95% density as	6. Location - A stabilized construction entrance sholl be loca
secifications. All other fill shall be compacted sufficiently so as to be stable and prevent erosion and slippoge. ermonent Sod:	the site must travel aver the entire length of the stobilized
stanation of soa snould follow permanent seeding dates. Seedbed preparation for sod shall be as noted in section (B) above. Armanent sod is to be tail fescue, state approved sod: lime and fertilizer per permanent seeding specifications and lightly igate soil prior to laying sod. Sod is to be iald on the contour with all ends tightly abutting. Joints are to be staggered	U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND I SOIL CONSERVATION SERVICE F-17-3 WATER M
atween rows, Water and roll or tamp eod to insure positive root contact with the soll. All slopes steeper than 3:1, as nown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for atabilshment may be required. Sod is not to be installed on frozen around. Sod shall not be transplanted when moleture	DETAIL 22A - REINFORCED SILT FENCE APPR
ontent (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence af adequate rainfail, rigation should be performed to ensure establishment of sod. Ilning Operations:	1 8' MAXIMUM CENTER TO 48' MINIMUM LEN
Sediment control plans for mining operations must include the following seeding dates and mixtures: For seeding dates of: Patrices 1 through April 30 and August 15 through October 71 was and within a fact the second second	CENTER DRIVEN A MINIMU GROUND
ebruary 1 through April 30 and August 15 through October 31, use seed mixture of tail fescue at the rate of 2 pounds er 1,000 square feet ond sericea lespedeza at the rate of 0.5 pounds per 1,000 square feet. psoil shall be applied as per the Standard and Specifications for Topsoil from the current Marviand Standards and	-16' MIN GEDIEXT
ecifications for Soll Erosionand Sediment Control. 10 TE: Use of this information does not preciude meeting all of the requirements of the "1994 Maryland Standards and	BEUTEXT
pecifications for Soil Erosion and Sediment Control". 0TE: Projects within 4 miles of the BM Airport will need to odhere to Marviand Aviation Administration's seeding	GROUND
pecification erstrictions.	FLOW FLOW
STANDARD RESPONSIBILITY NOTES	PERSPECTIVE VIEW 48' MINIMUM FENCE
a. All development and construction will be done in accordance with this sediment and erosion control plan, and further , authorize the right of entry far periodic onveite evoluation by the Anno Armstel Call	WELDED WIRE FENCING
Conservation District Baard of Supervisors or their authorized agents. b. Any responsible persannel involved in the canstruction praject will have a certificate of attendance fram	14 GAUGE 2'X 4' MESH
the Maryland Department of the Environment's appraved training progrom for the cantral of sediment and erosion before beginning the praject.	EMBED GEUTEXTILE CLASS F
Respansible personnel on site: c. If applicable, the apprapriate enclasure will be canstructed and maintained on sediment basin(s) included in this plan. Such structures(c) will be in compliance with the Appendix County Code	A MINIMUM DF 8' VERTICALLY
The developer is respansible for the acquisition of all easements, rights, and/or rights—of—way that may be required for the sedIment and erosion control practices, stormwater manaaement practices and the discharge	CONNECT WITH WIRE OR ZIP TIE 2 6' D. C. TIES CROSS SECT
of stormwater anto ar ocross adjocent or downstream properties included in this plan. He is also responsible for the acquisition of all easements, rights, and/ar rights—af—way that may be required far grading and/ar	FILTER FABRIC
work on adjacent properties included in this plon. Initial sail disturbance or redisturbance, permanent or temporory stabilization shall be completed within seven colonder dows for the surface of all controls, diken, surface, ditches, perimeter distance, perimeter	
and all slopes greater than 3 horizontal ta 1 vertical (3:1) and faurteen days far all ather disturbed ar graded areas on the praject slte. Temporary stabilization of the surface of perimeter contrals. dikes.	OR ZIP TIES ZWELDED WIRE FENCE
swales, ditches, and perimeter slapes may be allawed at the discretion of the sediment control inspector. The sediment control appravals on this plan extend only to areas and practices identified as propased work.	TOP VIEW
The approval af this plan for sediment and erosion control daes not relieve the developer/consultant from complying with Federal, State or Caunty requirements appertaining ta enviranmental issues.	Construction Specifications
with the appraved erasion and sediment control inspector approve work campleted in accordance with the appraved erasion and sediment cantral plan, the grading ar building permit, and the ardinance. On all sites with disturbed areas in excess of 2 acres, appraval of the Department of Inspections and Permits	1. Metal fence post shall be a minimum of 48° long driven 16 ground. Post shall be standard T or U section weighting not per linear foot.
All material, shall be taken to a site with an approved sediment and erosion cantrol plan. On all sites with disturbed areas in excess of twa acres, appraval of the sediment and erasian cantrol inspector	2. Geotextile shall be fastened securely to each fence post or zip ties at top and mid section and shall meet the follow
snaw pe required on completion of installation of perimeter erosion and sediment contrals, but before proceeding with any ather earth disturbonce or groding. This will require first phase inspections. Other building or groding inspection approvals may not be authorized until the initial approval by the sediment and erosion control.	for geotextile Class Fi Tensile Strength 50 lbc/in (min)
inspector is given. Approval sholl be requested on finol stabillzotion of oll sites with disturbed areas in excess ot twa acres before	Tensile Modulus 20 lbs/in (min.) Te Flow Rate 0.3 gal ft ^e / minute (max.) Te
removal af controls. Existing topography must be field verified by responsible personnel to satisfaction of the sediment control inspector prior to commencing work	Filtering Efficiency 75% (min.) Te 3. Where ends of geotextile fabric come together, they shall
	folded and wired tied or zip tied to prevent sediment bypass
Signature(s) of Developer/Owner Alizion Chings Date 4/12/07	bulges occur or when sediment accumulation reached 50% of th
Print: Name: LANCE JOHNSON	ANNE ARUNDEL SOIL PAGE MARYLAND CONSERVATION DISTRICT E - 15 - 38 WATER N 21 A STANDARD AND SPECIFICATI
	V. Topsoil Application
Title:	I. When topsoiling, maintain needed erosion and sediment co Structures, Earth Dikes, Slape Silt Fence and Sediment Ti
Affiliation: OWNER	li. Grades on the areas to be topsoiled, which have been pro 4" - 8" higher in elevation. iii Topsail shall be uniformly distributed in - 4" 6" laws
Address:2213 MULBERRY HILL ROAD	III. Topson shull be uniformly distributed in a 4 -8 layer an Spreading shall be preformed in such a manner that sod soil preparation and tillage. Any irreaulorities in the surfa
ANNAPOLIS, MARYLAND 21409	corrected in arder ta prevent the farmation af depression ly. Topsoil shall not be placed while the topsoil or subsoil is
Telephone Number: 443-223-3104	is excessively wet or in a condition that may atherwis be VI. Alternative to Permanent Seeding — Instead of applying the t compasted sludge and amendments may be applied as assori
21.0 STANDARD AND SPECIFICATIONS FOR	l. Composited sludge and amenaments may be applied as specified in the specified of the specified in the specified of the specified of the specified of the specified amendments and far sites having distributed of the specified
TOPSOIL Definition	requirements: a. Composted sludge shall be supplied by, or originate fro
acement of topsoil aver a prepared subsoil prior ta establishment af permanent vegetation. Purpose	of acquisitian of the campost) by the Maryland Department b. Composted sludge shall contain at leost 1 percent nitr
provide o suitable soil medium for vegetotive growth. Soils af concern have low moisture content, iow nutrient rels, low pH, materials taxic ta plants, and/or unacceptable soil gradation. Canditians Where Practice Applies	and have a Ph af 7.0 – 8.0. If compast does not meet be added to meet the requirements prior ta use. c. Composted sludae shall be applied at a rate of 1 ton.
This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoll/parent material is not adequate to produce vegetative growth.	ii. Composted sludge shall be amended with a patassium fer and 1/3 the normal lime application rate.
b. The soll material is so shallow that the rooting zane is not deep enough ta support plants ar furnish continuing supplies as maisture and plant nutrients.	References: Guideline Specifications, Soil Preparation and University af Maryland Polytechnic Institutes. Revised 197.
c. The original soll to be vegetated contains materials toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible. For the purpose of these Standards and Specifications, oreas having slopes steeper than 2:1 require special	QUANTITIE
consideration and design for adequote stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on these plans.	
Construction and Material Specifications Topsoil solvaged from the existing site may be used provided that it meets the stondards as sset forth in these	1. CUT 2. FILL
specifications. Typically, the depth of topsoil to be salvaged for o given soil type con be found in the representative soll prafile section in the Soil Survey published by USDA—SCS in caoperation with Maryland Agricultural experimental Statian.	3. AREA TO BE VEGETATIVELY STABILIZED:
Topsoil Specifications— Soil to be used as tapsoil must meet the following: i. Topsoil shall be a laam, sandy loam, clay loam, silt laam, sandy clay loam, loomy sand. Other solls may be used	4. AREA TO BE MECHANICALLY STABILIZED:
if recammended by an agranomist ar soil scientist and approved by the appropriate approval autharity. Regardless, topsoil shall not be a mixture of cantrasting textured subsails and shall contain less than 5% by volume of cinders, stopes stopes fragments, argued, sticke racte trach or other materials (stopes that if down in discussion).	INUTE: THE EARTHWORK QUANTITIES SHOWN A
cinaers, stones.siag.caarse tragments, gravel, sticks, raots, trash, or ather materials larger than 1–1/2" in diameter. ii. Topsoil must be free of plants or plant parts such as bermuda arass. auackarass. lohnsanarass.nutsedae.	TYPES TO HIS OWN SATISFACTION.
noison inv thistle or athere as prosified	LEGEND
poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4–8 tons/acre (200–400 paunds per 1.000 sauare feet) prior to the placement of topsoil lime shall be	
poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4–8 tons/acre (200–400 paunds 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 tilloge aperations as described in the following procedures.	EXISTING GRADE110
 poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 paunds 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 tilloge aperations as described in the following procedures. For sites having disturbed areas under 5 acres: i. Place tapsoil (if required[*]) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - 	EXISTING GRADE110 PROPOSED GRADE
 poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 paunds 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 tilloge aperations as described in the following procedures. For sites having disturbed areas under 5 acres: i. Place tapsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. For sites having disturbed areas over 5 acres: i. On soil meeting Topsall specifications, obtain test results dictating fertilizer and lime amendments required to 	EXISTING GRADE 110 PROPOSED GRADE
 poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 paunds 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 tilloge aperations as described in the following procedures. For sites having disturbed areas under 5 acres: i. Place tapsoil (if required") and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. For sites having disturbed areas over 5 acres: i. On soil meeting Topsall specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil inta compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. if the tested soil demonstrates a pH af less than 6.0, sufficient 	EXISTING GRADE110 PROPOSED GRADE
 poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 paunds 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 tilloge aperations as described in the following procedures. For sites having disturbed areas under 5 acres: i. Place tapsoil (if required") and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. For sites having disturbed areas over 5 acres: i. On soil meeting Topsail specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil inta compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. if the tested soil demonstrates a pH af less than 6.0, sufficient lime shall be perscribed ta raise the pH to 6.5 or higher. b. Organic content of topsoil shall be not less than 1.5 percent by weight. 	EXISTING GRADE 110 PROPOSED GRADE
 poison ivy, thistle, or athers as specified. iii. Where the subsoil is either highly acidic ar composed af heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 paunds 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 tilloge aperations as described in the following procedures. For sites having disturbed areas under 5 acres: i. Place tapsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. 'For sites having disturbed areas over 5 acres: i. On soil meeting Topsail 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 6.0 and 7.5. if the tested soil demonstrates a pH af less than 6.0, sufficient lime shall be perscribed ta raise the pH to 6.5 or higher. b. Organic content af topsoil shall be not less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod ar seed shall be placed on soll which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elenced (14 data min.) 	EXISTING GRADE 110 PROPOSED GRADE

at water the

Note: Topsoil substitutes or amendments, as recammended by a qualified agronamist or sail scientist and opproved by the oppropriote approval authority, may be used in lieu af natural tapsail. ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I Vegetative Stabilization Methods and Materials.

PERIMETER DIKE SWALE



Md. Landscape Architect #___ Firm Name: ED BROWN & ASSOCIATES, INC. Name: (Print)____EDWARD A. BROWN Street Address: 19 LORETTA AVENUE ANNAPOLIS, MARYLAND 21401

PHONE 410-757

-CONSTRUCTION MEETING: NOTIFY THE DEPARTMENT OF INSPECTIONS PERMITS AT LEAST 48 HOURS BEFORE COMMENCING WORK, WORK MAY COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL E MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR REVIEW THE APPROVED PLANS.	48 HOURS	200 200 200 200 200 200 200 200 200 200
TALL ALL TEMPORARY EROSION CONTROL MEASURES SUCH AS REINFORCED FENCE, STABILIZED CONSTRUCTION ENTRANCE. CONTACT INSPECTIONS PERMITS FOR "PHASE ONE" INSPECTION.	2 DAYS	E ST
IGH GRADE LIMIT OF DISTURBANCE.	2 WEEKS	E SI
AVATE FOR AND CONSTRUCT FOUNDATION (AT HOUSE BACKFILL, STABILIZE AFFECTED AREAS AS PER THE STABILIZATION SPECIFICATIONS) GRADE STABILIZE REMAINDER OF SITE. MAINTAIN SEDIMENT CONTROL MEASURES.	20 DAYS	
ISTRUCT HOUSE, AND DRIVEWAY D MAINTAIN SEDMENT CONTROL MEASURES.	5 MONTHS	
TALL THE REQUIRED STORMWATER MANAGEMENT DISCONNECTS & NTINGS INSPECT BY COUNTY AND ENGINEER OF RECORD	5 DAYS	and o
AL CLEANUP, STABILIZATION AND REMOVAL OF REMAINING SEDIMENT NTROL MEASURES WITH INSPECTOR'S APPROVAL.	5 DAYS	
ITICAL AREA TARI ILATION		Blemons Pt.
TICAL ANLA TAUCLATION		



HARD

$4,182 - 3,400 = 782 \ SQ.FT.$

SETBACKS: FRONT: 30' REAR: 25' SIDE: 7' PREDOMINANT SOIL TYPE: CpD COLLINGTON "B" SOILS 27,878 S.F. 0.64 ACRES. TOTAL AREA OF SITE: 4. PROPOSED DISTURBED AREA: 9,500 S.F. 0.22 ACRES. 6. A. A. COUNTY TOPO SHEET: Y & Z 22 ZONE: A-8 (ELEV 7.0) 2400080034 C 7. F.E.M.A. RATE MAP: 8. THIS LOT IS IN THE 100 YEAR FLOOD AREA. 9. FIELD RUN TOPOGRAPHY BY ED BROWN & ASSOCIATES, INC. 9/04 USING REFERENCE MARK A. A. COUNTY RM MEAN HIGH WATER 10. PUBLIC WATER. 11. PRIVATE SEWER. 12. EARTH MOVING: ANY STOCKPILE NECESSARY SHALL REMAIN WITHIN THE LIMITS PROTECTED BY SEDIMENT CONTROL MEASURES. ANY EXCESS SPOIL OR BORROW MATERIAL SHALL BE TAKEN TO OR OBTAINED FROM A. A. CO. APPROVED SITE. DOWNSPOUT PROTECTION: ALL DOWNSPOUTS ARE TO BE CARRIED TO THE 13. TOE OF THE FILL SLOPES, SPLASH BLOCKS ARE TO BE PROVIDED AT ALL DOWNSPOUTS NOT DISCHARGING ONTO A PAVED SURFACE.

ZONING: R-2

DISTURBANCE WITHIN MULBERRY HILL ROAD (NONE EXPECTED) MUST BE STABILIZED IMMEDIATELY USING COLD PATCH BITUMINOUS MATERIAL. PERMANENT PAVE PATCHING IN THESE AREAS WITH HOT MIX BITUMINOUS MATERIAL MUST BE COMPLETED WITHIN 14-30 DAYS TO MATCH THE EXISTING PAVEMENT SECTION OF ROAD.

15. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED AT HIS OWN EXPENSE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OBSERVANCE OF ALL APPLICABLE OSHA REGULATIONS CONCERNING EXCAVATION AND BACKFILL.

> Anne Arundel Soil Conservation District Sediment and Erosion Control Approval



		G020
D BROWN &	SCALE: AS NOTED	GRADING & SEDIMENT CONTROL PLAN
SOCIATES. INC.	DATE: APRIL, 2007	LOT 1R
URVEYORS - LAND PLANNERS	DRAWN BY: CRH	
PLAZA ONE BUILDING	5 20 CHECKED BY: EAB	2213 MULBERRY HILL ROAD
1511 RITCHIE HWY, SUITE 301 ARNOLD, MARYLAND 21012	JOB NO: 04-215	TAX MAP 46, BLOCK 16, PARCEL 298, R2 ZONING, ZIP CODE 21409
Email: edbrownassococomcast>net	Atlantic Coastal Bays 1 OF 3	THIRD DISTRICT, ANNE ARONDEL COUNTY, MARTIENDS



*



LEGEND	
EXISTING GRADE	110
PROPOSED GRADE	
EXISTING ELEVATION	110.8
PROPOSED ELEVATION	110x8
REINFORCED SILT FENCE	
LIMIT OF DISTURBANCE	LOD
STABILIZED CONSTRUCTION ENTRANCE	S. C. E.
STOCK PILE	P
	PD-S

