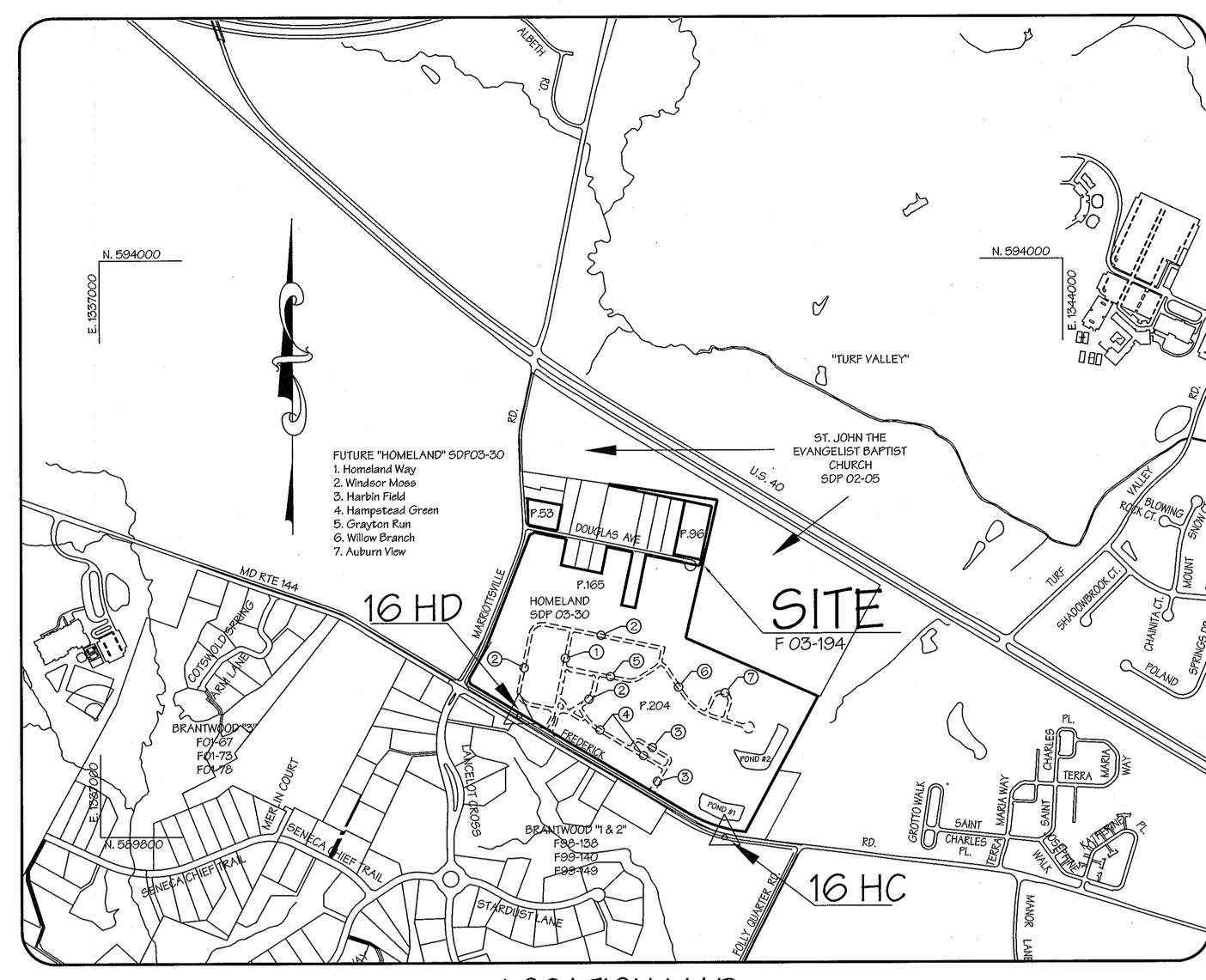
# BENCHMARKS

HOWARD COUNTY GEODETIC CONTROL: 16HC

Elevation: 449.451 Northing: 589780.908 Easting: 13341530.147 Station is a standard stamped disc set on top of concrete monument. Located on the southern boundary of Maryland Route 144, 0.1 Mile west of Folly Quarter Road.

HOWARD COUNTY GEODETIC CONTROL: 16HD Elevation: 512.208

Northing: 590674.171 Easting: 1340043.586 Station is a standard stamped disc set on top of concrete monument. Located 43' east of BGE Pole # 331.656 near the Maryland Route 144 and Marriottsville Road intersection. 3' from the edge of Maryland Route 144 paving and 25.5' from the Marriottsville Road street sign. Station is flush with surface.

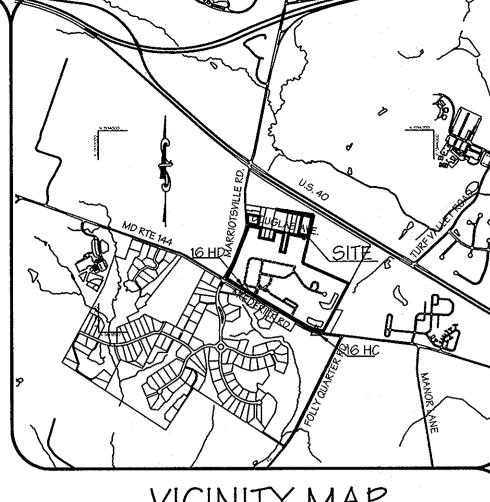


LOCATION MAP

Scale: 1" = 600'

# FINAL ROAD CONSTRUCTION PLANS HOMELAND

3rd ELECTION DISTRICT - HOWARD COUNTY, MD



VICINITY MAP Scale: 1" = 2000'

## GENERAL NOTES

1. Project Background: Ellicott City, Maryland Location:

Tax Map: 53, 96, 165, and 204

Parcel:

2. The subject property is zoned RC / DEO (Rural Conservation - Density Exchange Option) per the 10/18/93 Comprehensive

3. This plan is subject to 5/6/96 Howard County Zoning Regulations and to the 5th Edition of the Howard County Subdivision and Land Development Regulations.

4. Deed Reference: Parcel 53: L. 5199 F. 402 - 1.14 Acres

Parcel 96: L. 4987 F. 674 - 1.84 Acres

Parcel 165: L. 4008 F. 453 - 10.52 Acres Parcel 204: L. 4249 F. 452 - 61.72 Acres

5. All construction shall be in accordance with the latest Standards and Specifications of Howard County plus MSHA Standards and

6. The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.

7. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.

8. Traffic control devices, markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.

9. Street light placement and the type of fixture and pole shall be in accordance with the Howard County Design Manual, Volume III (1993) and as modified by "Guidelines for Street Lights in Residential Developments (June 1993)." A minimum spacing of 20' shall be maintained between any street light and any tree.

10. The property shown hereon is based on a field run boundary survey performed by LDE, Inc. dated October 1999. 11. The topography shown hereon was compiled by Harford Aerial, January 2002 and spot checked for accuracy by field run topography by LDE,

12. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane

Coordinate System. Howard County Monument Nos. 16 HC and 16 HD were used for this project. 13. Water, is an existing public water main, Contract # 44-3480.

14. The sewer systems along Douglas Avenue are private septic systems. The future units per SDP 03-30 will utilize the private septic system as shown on the aforementioned Site Development Plan.

15. Stormwater management will be accomplished under approved SDP 03-30. The controls will be privately owned and maintained. 16. The existing utilities shown hereon are located from field surveys and construction drawings of record. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service. Any damage incurred to utilities or existing

features due to contractor's operation shall be repaired immediately at the contractor's expense. 17. There may be additional utilities not shown on these plans. The engineer assumes no responsibility for utility locations not shown and it shall be the responsibility of the contractor to verify the locations of all existing utilities within the limits of construction and

notify the engineer of any discrepancies, prior to the start of construction. 18. Any damage caused by the contractor to existing public right-of-way, existing paving, existing utilities, etc. shall be corrected at

the contractor's expense in accordance with the Howard County Standards and Specifications. 19. Deviations from these plans and specifications without prior written consent of the civil engineer may cause the work to be

20. All utility poles within the limit of construction shall be braced prior to the start of work. Contractor shall contact Utility Companies

prior to bracing, adjustment or relocation. 21. Adjustments to the sequence of construction shall be approved by the Howard County Department of Inspections, Licenses and

Permits, prior to such adjustments.

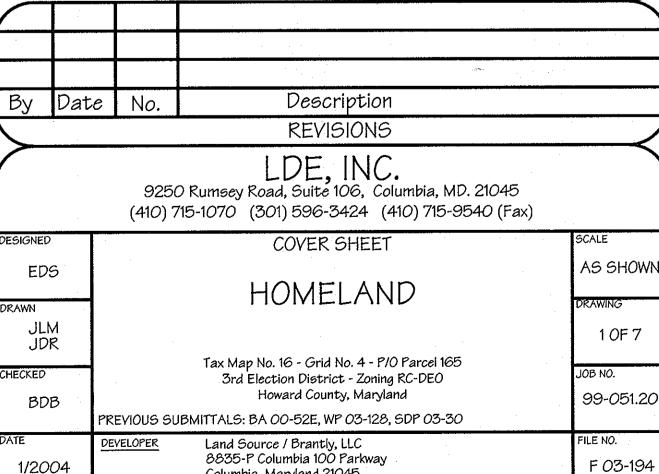
22. All fill shall be rolled to a minimum degree of compaction of 95% of the dry unit weight as determined by AASHTO T-180. 23. The dimensioned distances shall govern if scaled and dimensioned distances on this plan are found to be in disagreement.

24. There is no floodplain on this site. The floodplain study for the "Homeland" project was approved under SDP 03-30. 25. There are no wetlands on this site. The wetland delineation for the "Homeland" project was approved under SDP 03-30. 26. No traffic study is required for this project. The traffic studies for the "Homeland" project was approved under SDP 03-30.

27. The Contractor shall maintain vehicular access and utility service to the existing dwelling (#11110 Douglas Avenue) during all phases of

28. The Existing Fire Hydrant shall be relocated by Advance Deposit Order (A.D.O.). The contractor shall coordinate this with Howard County

AS-BUILT



Columbia, Maryland 21045

410-730-0810

APPROVED: DEPARTMENT OF PUBLIC WORKS

William 2. Whate 1

APPROVED: DEPARTMENT OF PLANNING AND ZONING

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

I hereby certify that this parties adjusted and should control represents a practical and workable plan based on my parties all browned to the the conditions and that it was prepared in accordance with the real parties of the neward Soil Conservation District. I/We certify that all development and construction will be done according to this plan of

development for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment

Approved Training Program for the Control of Sediment and Erosion before beginning the project.

I also authorize periodic on-site inspections by the Howard Soil Conservation District



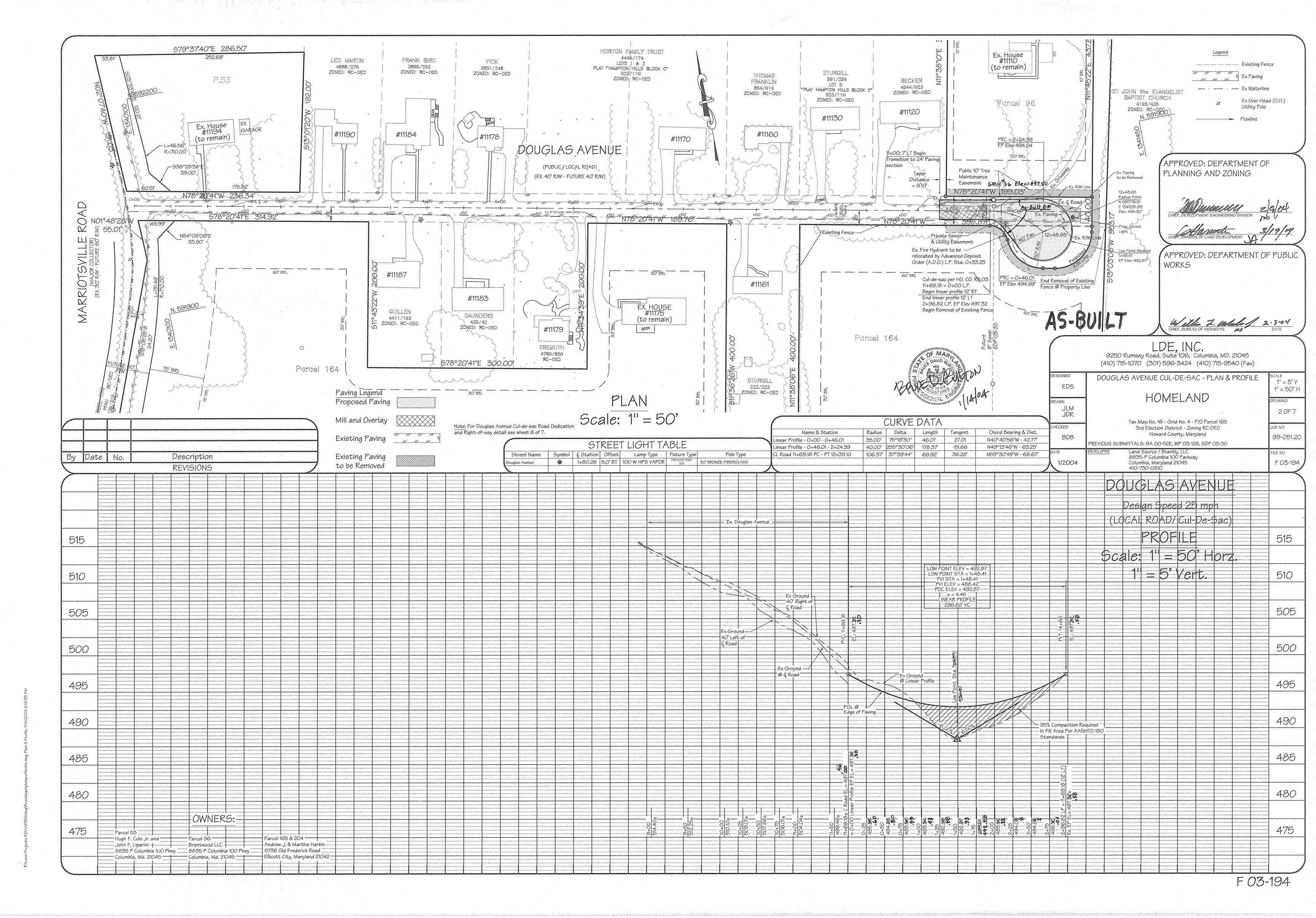
**OWNERS:** 

Parcel 96 Hugh F. Cole Jr. and John F, Liparini Brantwood LLC 8835 P Columbia 100 Pkwy Columbia, Md. 21045 Columbia, Md. 21045

8835 P Columbia 100 Pkwy

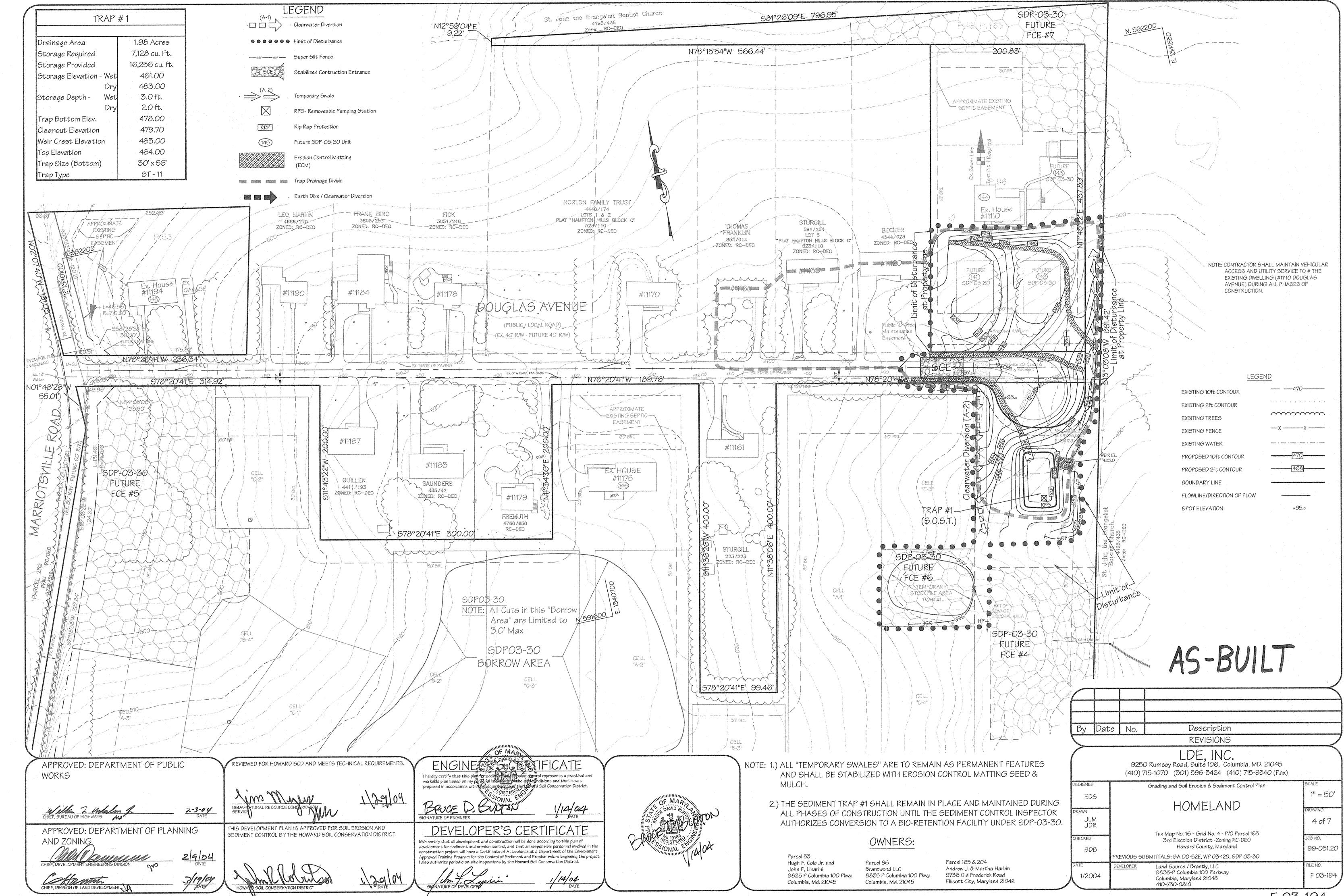
Parcel 165 & 204 Andrew J. & Martha Harbin 9736 Old Frederick Road Ellicott City, Maryland 21042

1/2004



Fill and Protects POLHAP BIM dural Praddiumal GOOTST. 20AM dun 1980AM 1949CV34 2149.55

F 03-194



F 03-194

of any construction, (313-1855). 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current

"MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

SEDIMENT CONTROL", and revisions thereto. 3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around

DESIGN MANUAL, Storm Drainage. 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (Section G) for permanent seeding, sod, temporary seeding, and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

their perimeter in accordance with Vol. 1, Chapter 7, of the HOWARD COUNTY

6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector. 7. Site Analysis:

<b>?</b> ↓		
Total Area of Site	2.00	Acres
Area Disturbed	2.00	Acres
Area to be roofed or paved	0.17	Acres
Area to be vegetatively stabilized	1.80	Acres
Total Cut	5,000	Cu. Yds
Total Fill	5,000	Cu. Yds
Official wasta /language and language	SDP 03-3	

Offsite waste/borrow area location \_\_\_\_\_\_SUP 03-30 Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard

County Sediment Control Inspector. 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial

approval by the inspection agency is made. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

#### HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following

1) PREFERRED -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq. ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000sq. ft.)

2) ACCEPTABLE -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq. ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

SEEDING -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (.05 lbs/1000sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) - 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) - Use sod. Option (3) - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch 2 tons / acre well anchored straw.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

MAINTENANCE -- Inspect all seeding areas and make needed repairs, replacements and reseedings.

### HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-termvegetative cover

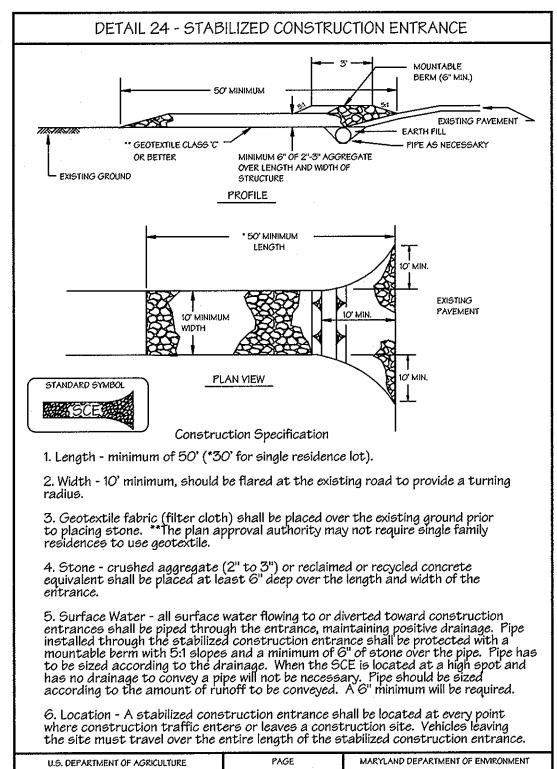
SEEDBED PREPARATION: -- Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

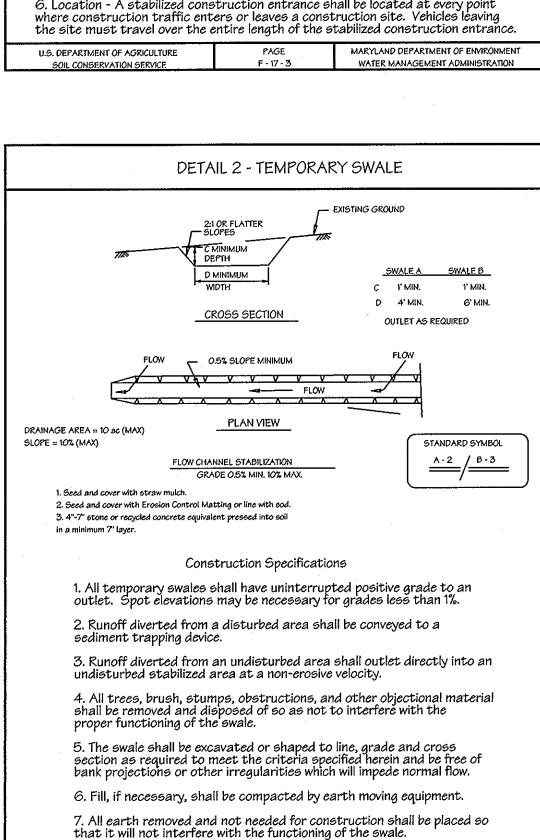
SOIL AMENDMENTS: -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual rye (3.2 lbs/1000sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

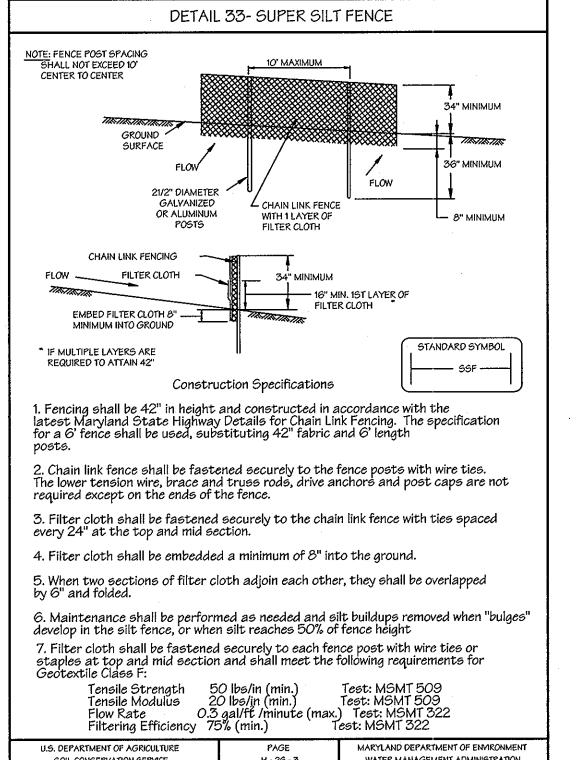
MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

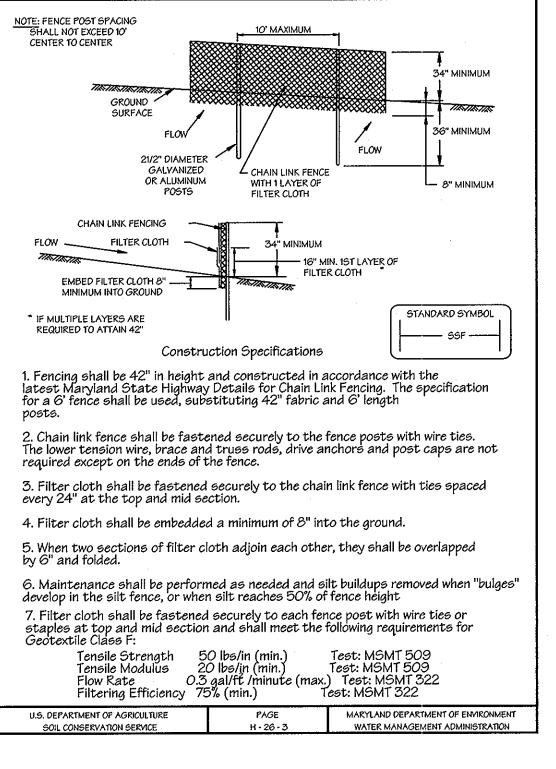
Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.





8. Inspection and maintenance must be provided periodically and after





30.0 DUST CONTROL

<u>Purpose</u>

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is

1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped

3. Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which

should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type

plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment

4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until

the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that

5. Barriers - Solid board fences, siit fences, snow fences, burlan fences, straw bales, and similar

material can be used to control air currents and soil blowing. Barriers placed at right angles to

prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.

1. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization

1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting

6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

with sod. Existing trees or large shrubs may afford valuable protection if left in place.

2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.

2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

3. Stone - Cover surface with crushed stone or coarse gravel.

Controlling dust blowing and movement on construction sites and roads.

2. Vegetative Cover - See standards for temporary vegetative cover.

hazards, and improve traffic safety.

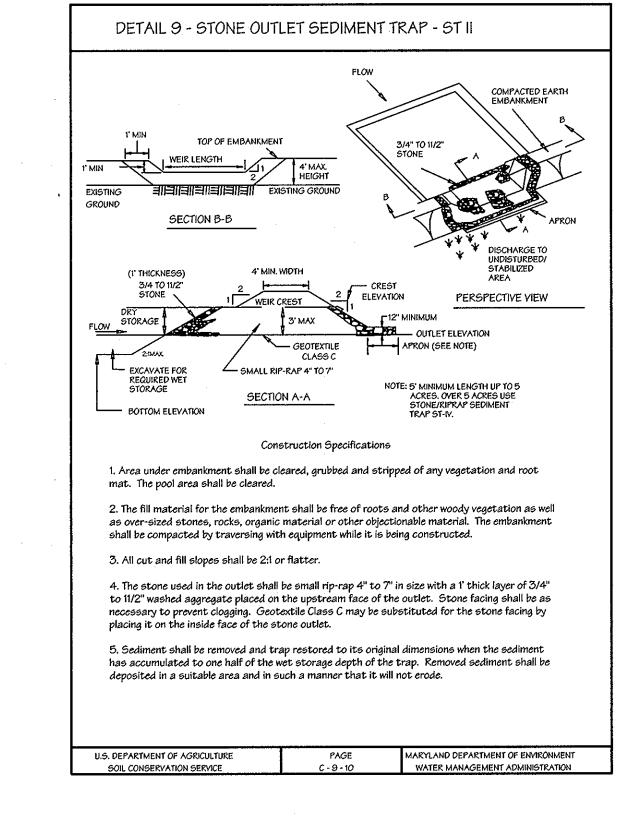
or tacked to prevent blowing

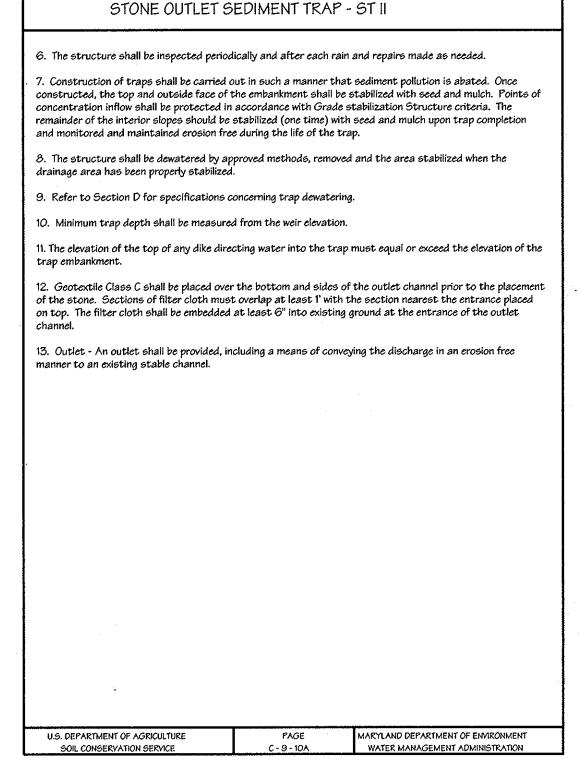
which may produce the desired effect.

likely without treatment

Temporary Methods

Permanent Methods





#### 21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

# Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

#### Purpose

Definition

To provide a suitable soil medium for vegetative 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

# 1. 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 original 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 for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

# Construction and Material Specifications

1. 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 section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

# II. Topsoil Specifications - Soil to be used as topsoil must meet the following:

- i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay Loam, loamy sand. Other 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, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.
- ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass,
- nutsedge, poison ivy, thistle, or others as specified. iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 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

# III. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I - Vegetative 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 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.

b. Organic content of topsoil shall be not less than 1.5 percent by weight.

conjunction with tillage operations as described in the following procedures.

c. Topsoil having soluble 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 a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization --Section I - Vegetative Stabilization Methods and Materials.

i. When topsoiling, maintain needed erosion 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 maintaine albeit 4" - 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 shall 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 iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer,

composted sludge and amendments may be applied as specified below: 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. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these

requirements, the appropriate constituents must be added to meet the requirements

c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet,

ii. 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 Specifications, Soil Preparation and Sodding. MD-VA, Pub.#1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

# AS-BUILT

Зу	Date	No.	Description		
			REVISIONS		
			LDE, INC.  Rumsey Road, Suite 106, Columbia, MD. 21045  15-1070 (301) 596-3424 (410) 715-9540 (Fax)		
BIGNED EDS		GRADING	AND SOIL EROSION & SEDIMENT CONTROL PLAN - DETAILS  HOMELAND	SCALE AS SHOWN	
AWN JLN JDI			DRAWING 5 OF 7		
ECKED BDI		Tax Map No. 16 - Grid No. 4 - P/O Parcel 165 3rd Election District -Zoning RC-DEO Howard County, Maryland PREVIOUS SUBMITTALS: BA 00-52E, WP 03-128, SDP 03-30			
TE 1/200	l	EVELOPER	Land Source / Brantly, LLC 8835-P Columbia 100 Parkway Columbia Mandand 21045	FILE NO. F 03-194	

Columbia, Maryland 21045

410-730-0810

OWNERS:

Parcel 53 Hugh F. Cole Jr. and John F, Liparini 8835 P Columbia 100 Pkwy Columbia, Md. 21045

Parcel 96 Brantwood LLC 8835 P Columbia 100 Pkwv Columbia, Md. 21045

Parcel 165 & 204 Andrew J. & Martha Harbin 9736 Old Frederick Road Ellicott City, Maryland 21042

APPROVED: DEPARTMENT OF PLANNING

APPROVED: DEPARTMENT OF PUBLIC

WORKS

AND ZONING

each rain event.

U.S. DEPARTMENT OF AGRICULTURE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINE POOCE TIFICATE

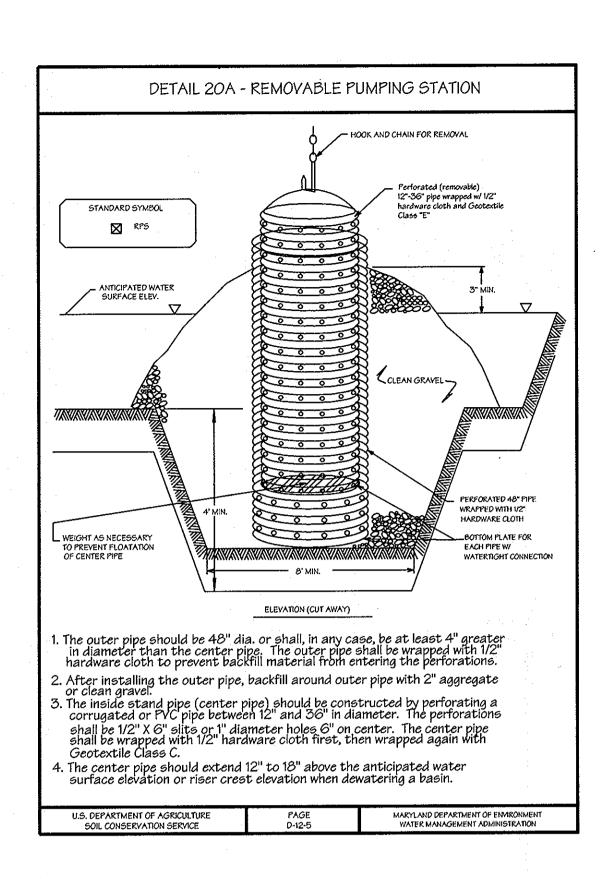
I hereby certify that this part to control represents a practical and workable plan based on my personal approach the specific Enditions and that it was prenared in accordance with the requirement of the boward Soil Conservation District.

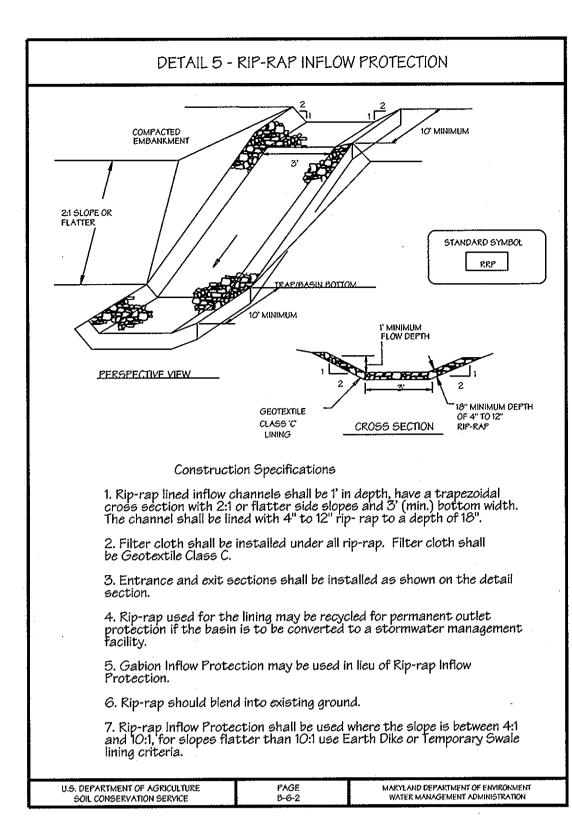
MARYLAND DEPARTMENT OF ENVIRONMENT

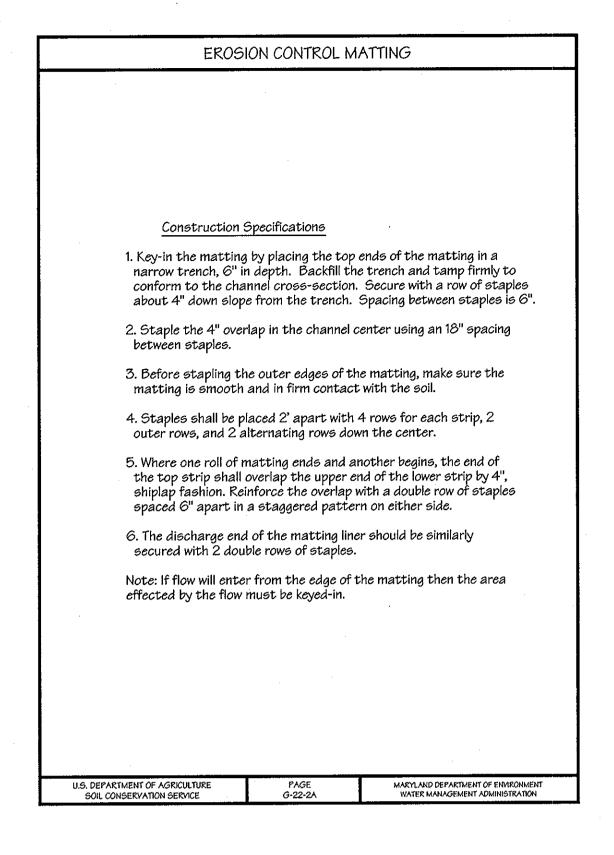
DEVELOPER'S CERTIFICATE I/We certify that all development and construction will be done according to this plan of development for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project I also authorize periodic on-site inspections by the Howard Soil Conservation District

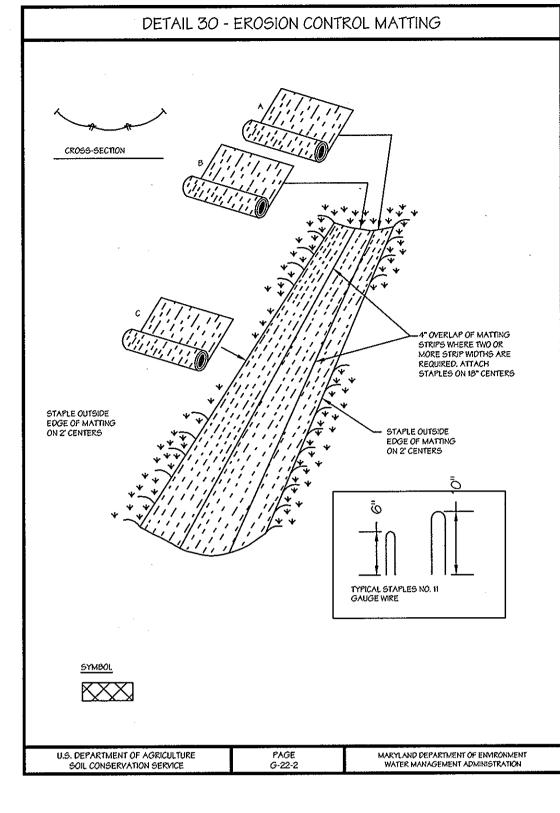
14/04 DATE

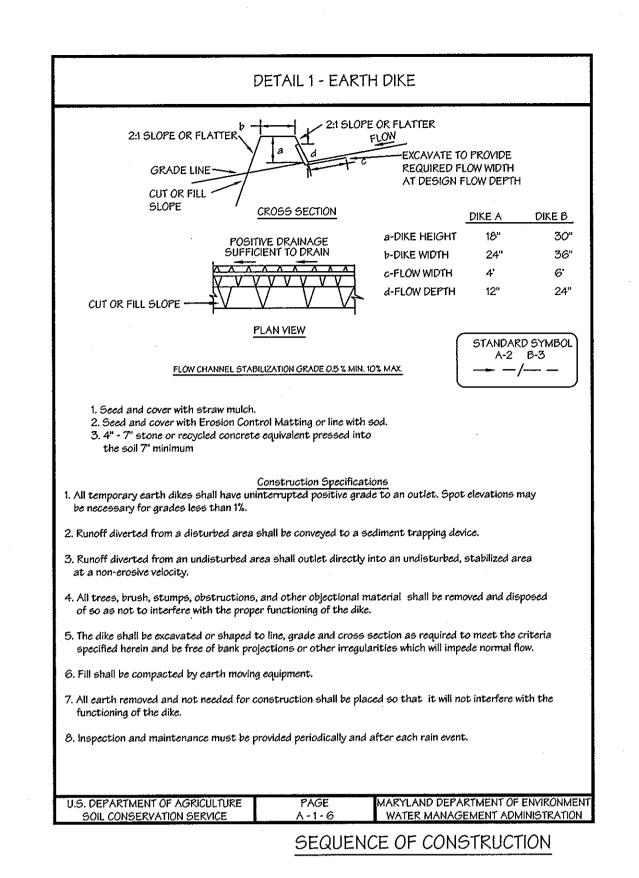








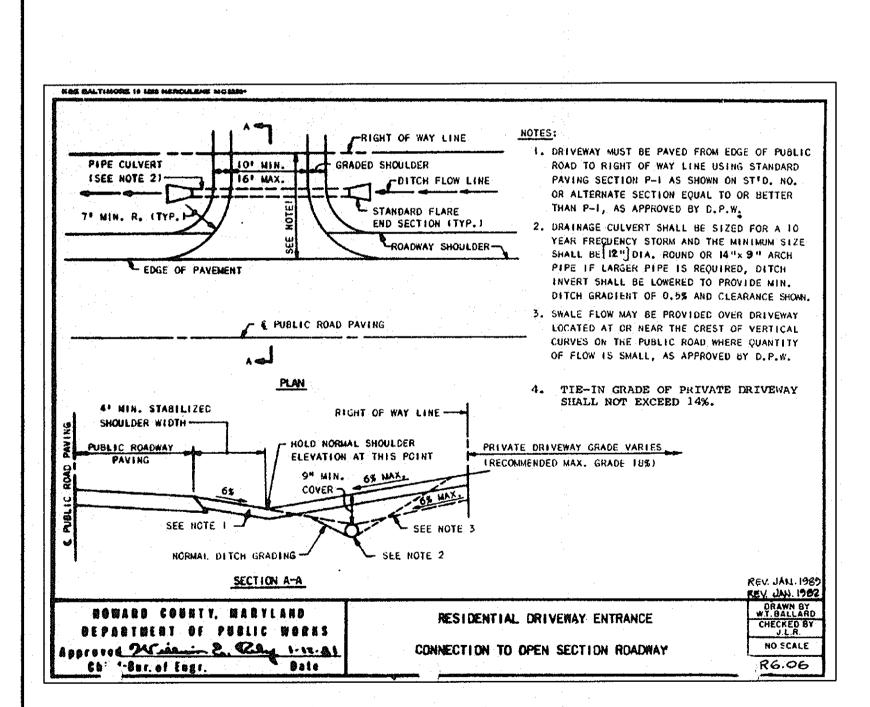


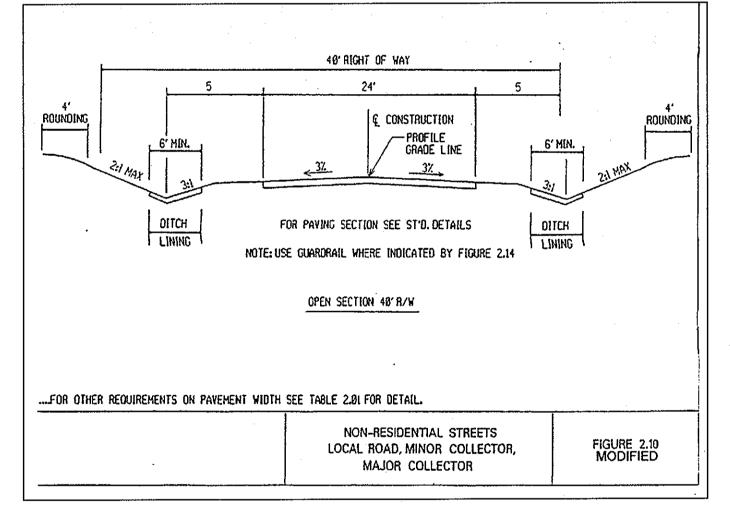


1. Obtain Grading Permit. - 1 day

2. Stakeout limits of disturbance. - 1 day

3. Install stabilized construction entrance. - 1 day



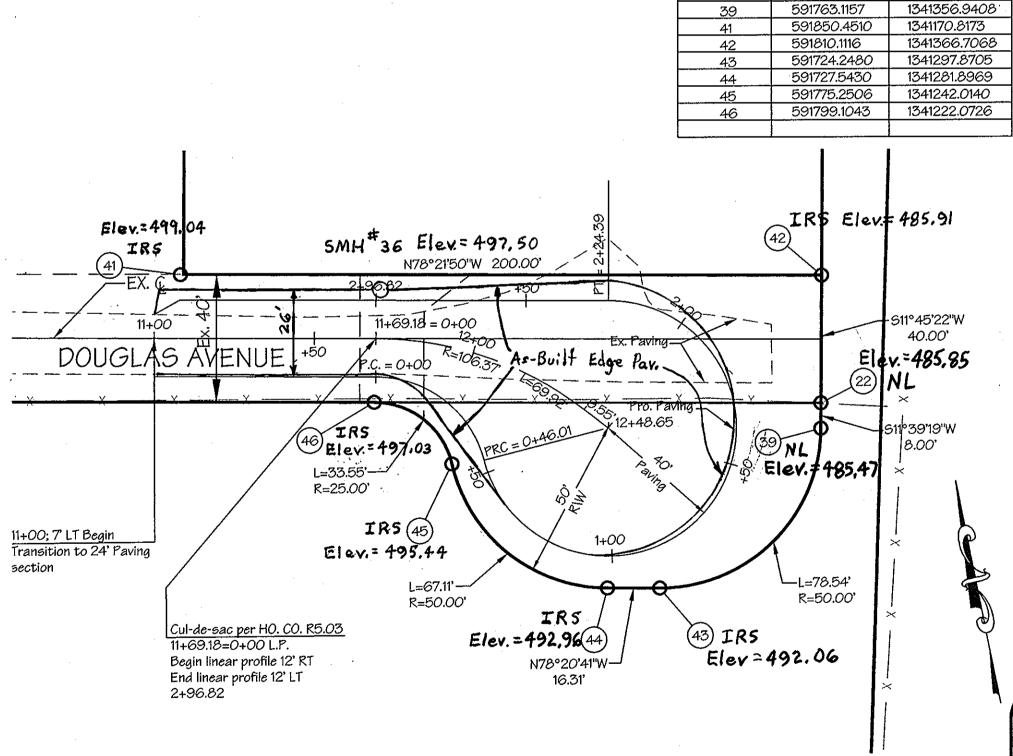


SECTION	ROAD AND STREET	PAVEMENT MATERIALS		
NUMBER	CLASSIFICATION	FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ACTERNATES	
P-2	RESIDENTIAL ZONES LOCAL, CUL-DE-SAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL TRAVELWAYS APARTMENTS AND COMMERCIAL— INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY*	5" BIT. CONC. BASE		AGGREGATE
	YS ARE DEFINED AS THE ROADWAYS LEADER	IG TO THE PARKING BAYS. EEL OR MORE INCLUDING GARBAGE TRUCKS.		/ JAN. 19
HOV DEP: Approve	NARD COUNTY, MARYLAND LATMENT OF PUBLIC WORKS  1-Bur. of Engr.  Date	PAVING SECT	w	DRAWN I T.BALL CHECKED L.B. NO SCAI

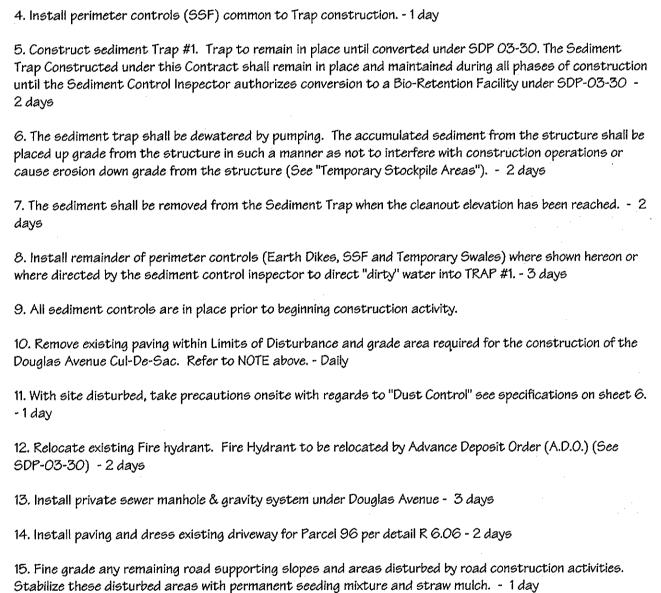
ENGINES CERTIFICATE

I hereby certify that this plan present a practical and workable plan based on my personal knowledge of the city conditions and that it was prepared in accordance with the requirements of the covard Soil Conservation District.

I/We certify that all development and construction will be done according to this plan of

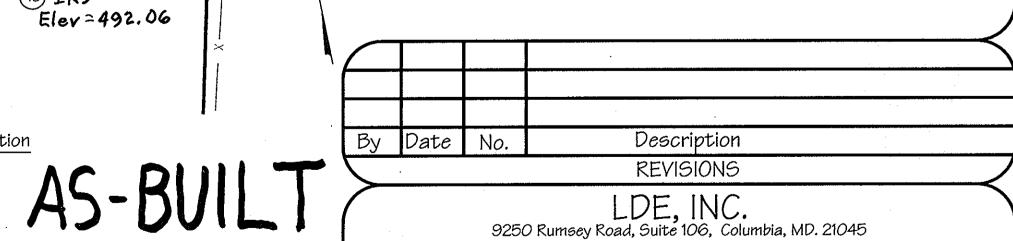


Douglas Avenue Cul-De-Sac Road Dedication Scale: 1"=30"



NOTE: THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS AND UTILITY SERVICE TO THE EXISTING

DWELLING (#1110 DOUGLAS AVENUE) DURING ALL PHASES OF CONSTRUCTION.



LDE, INC.

9250 Rumsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax) SOIL EROSION & SEDIMENT CONTROL PLAN AND ROAD CONSTRUCTION - DETAILS EDS HOMELAND JDR CHECKED

AS SHOWN 6 OF 7 Tax Map No. 16 - Grid No. 4 - P/O Parcel 165 3rd Election District -Zoning RC-DEO Howard County, Maryland 99-051.20 PREVIOUS SUBMITTALS: BA 00-52E, WP 03-128, SDP 03-30 FILE NO. Land Source / Brantly, LLC 8835-P Columbia 100 Parkway F 03-194 1/2004 Columbia, Maryland 21045 410-730-0810

OWNERS:

Parcel 53 Hugh F. Cole Jr. and John F, Liparini 8835 P Columbia 100 Pkwy Columbia, Md. 21045

Ellicott City, Maryland 21042

COORDINATE TABLE

591770.9506

1341358.5569

Parcel 165 & 204 Parcel 96 Brantwood LLC Andrew J. & Martha Harbin 8835 P Columbia 100 Pkwy 9736 Old Frederick Road Columbia, Md. 21045

APPROVED: DEPARTMENT OF PUBLIC WORKS

APPROVED: DEPARTMENT OF PLANNING

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

development for sediment and erosion control, and that all responsible personnel involved in the

construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspections by the Howard Soil Conservation District

I/We certify that all development and construction will be done according to this plan of

I also authorize periodic on-site inspections by the Howard Soil Conservation District

development for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project.

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

AND ZONING

TREE PLANTING NOTES

Plant installation must conform to the minimum standards cited in

the latest edition of Landscape Specification Guidelines, published

Notify "Miss Utility" 72 hours prior to installation of all plant

Plants to be located in the field by the owner or owner's

representative. Notify owner 72 hours in advance of planting.

A Certification of Landscape Installation is required as per the

approval of the Landscape Architect. Substitutions must be included in the recommended plant list in the Howard County

open space access strip and 10 feet of a driveway.

with one pound of 10-10-10 fertilizer per pit.

The number, size, location of plants shall not be changed without the

Trees may not be planted within 5 feet of drain inlets, 5 feet of an

Bailed and burlapped plant material shall not be accepted if bail is cracked or broken before or during planting. Protect all plants from

Tree pits shall be backfilled with 50% topsoil, 25% peat 25% sand

roots, clay clumps, stones, sticks, etc. Peat moss shall be commercial with pi 4.5 to 5.5, free of woody material or harmful

All plants shall be watered at planting with weekly watering

Top soil shall be sandy loam soil free from noxious weeds or grasses,

thereafter for the first 80 days. Watering shall continue bimonthly

or as necessary to maintain plants in a healthy condition during the

Maintain the site in an orderly manner. Streets and sidewalks shall be swept clean. All rejected or dead materials shall be immediately

Plant material to be alive and healthy at the time of the guarantee

Maintenance shall begin immediately after planting and continue to

period (one year), as specified in the Howard County Landscape

Maintenance consist of pruning, watering weeding, re-mulching, resetting plants to proper grades as needed and repairing guys and

by the Landscape Contractors Association.

Howard County Landscape Ordinance.

Landscape Ordinance.

guarantee period.

staked as needed.

removed from the site.

the end of guaranteed period.

drying by either sun of wind.

PLANTING SPECIFICATIONS: CONTAINER GROWN AND BAILED AND BURLAPPED STOCK BACKFILL W/ CONTAINER DIAMETER -ORIGINAL GRADE

Date No. Description REVISIONS LDE, INC. 9250 Rumsey Road, Suite 106, Columbia, MD. 21045 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

FILL OR REGRADED SOILS

OWNERS:

Hugh F. Cole Jr. and John F, Liparini 8835 P Columbia 100 Pkwy Columbia, Md. 21045

Parcel 96 Brantwood LLC 8835 P Columbia 100 Pkw Columbia, Md. 21045

Parcel 165 & 204 Andrew J. & Martha Harbin 9736 Old Frederick Road Ellicott City, Maryland 21042

LANDSCAPE PLAN 1" = 5*0*' HOMELAND JLM JDR 7 OF 7 Tax Map No. 16 - Grid No. 4 - P/O Parcel 165 3rd Election District -Zoning RC-DEO Howard County, Maryland 99-051.20 PREVIOUS SUBMITTALS: BA 00-52E, WP 03-128, SDP 03-30 FILE NO.

Land Source / Brantly, LLC

Columbia, Maryland 21045

410-730-0810

1/2004

8835-P Columbia 100 Parkway

F 03-194

ROOTBALL OR CONTAINE