

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 7/5/16 **ONSITE SEWAGE DISPOSAL SYSTEM** P 558780
 APPROVAL DATE: 8/26/16 (SEC) **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 8110 Brookwood Farm Road
 SUBDIVISION: Brookwood Farms LOT: _____ TAX ID: 05-414938
 CONTRACTOR: Chavis Enterprises EMAIL: office@chavisenterprisesllc.com
 CONTRACTOR ADDRESS: PO Box 451, Jarrettsville, MD 21084 PHONE: 410-557-2455

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Abid Raza Rizvi EMAIL: _____
 OWNER ADDRESS: 8110 Brookwood Farm Road, Fulton, MD 20759 PHONE: _____

BAT UNIT MODEL: Hoot 600 PUMP SIZE: Ep0511 PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 8/12/15 DATE RECORDED: 8/12/15

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

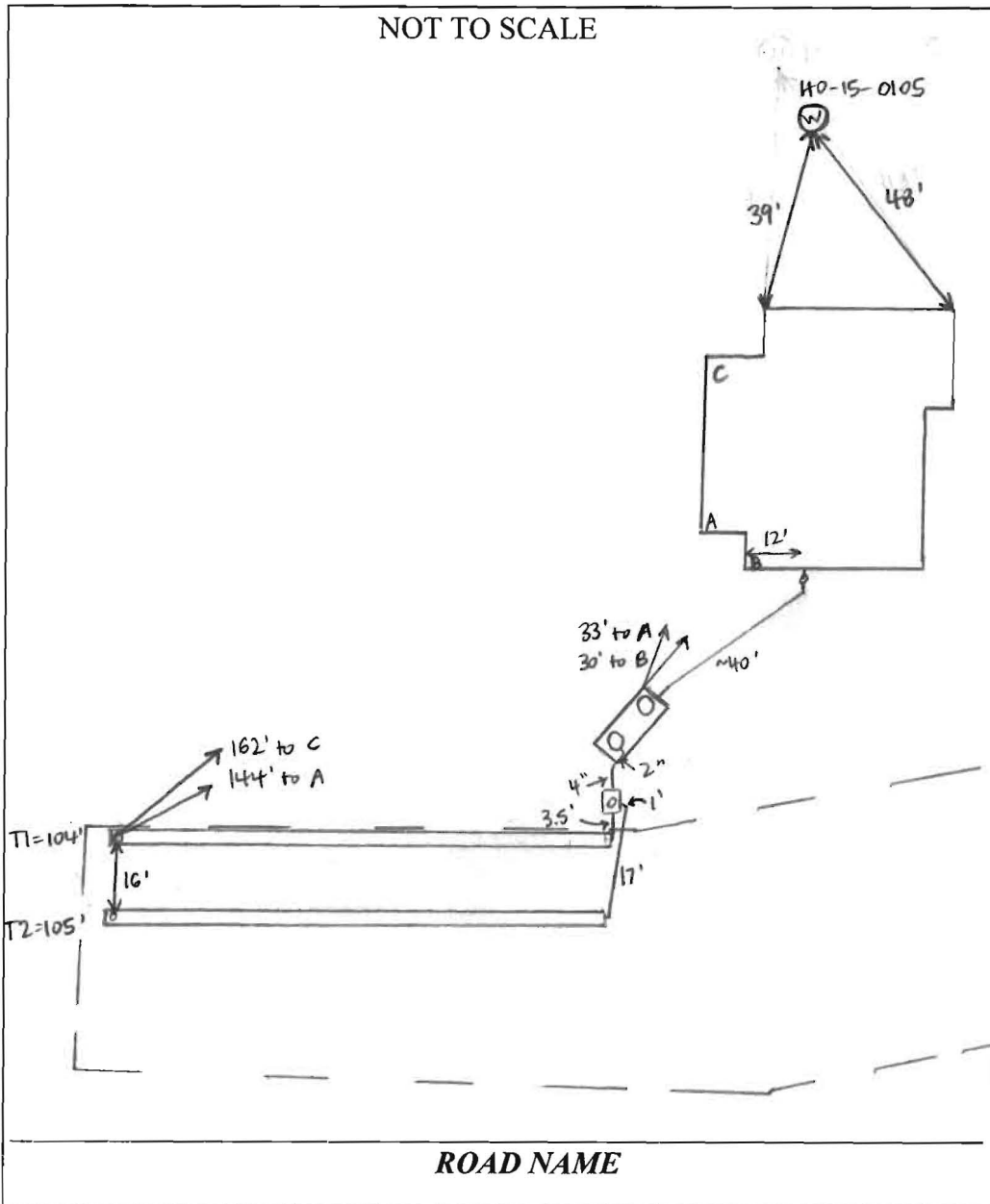
TRENCHES:	LINEAR FEET REQUIRED: <u>208</u> ✓	INLET DEPTH: <u>4</u> ✓
	TRENCH WIDTH: <u>3</u> ✓	MAXIMUM BOTTOM DEPTH: <u>6</u> ✓
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</u> OK
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Sized for future 5 th bedroom in unfinished basement.	

ISSUED BY: Jeff Williams ISSUE DATE: 7/5/16 EXPIRATION DATE: 7/5/17

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
 ELECTRICAL PERMIT ISSUED E 16002618
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
 CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		209'
ABSORPTION AREA		627' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES (BRICK)
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	MAYER BROS. / HOOT
CAPACITY	1500 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY GAL	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:

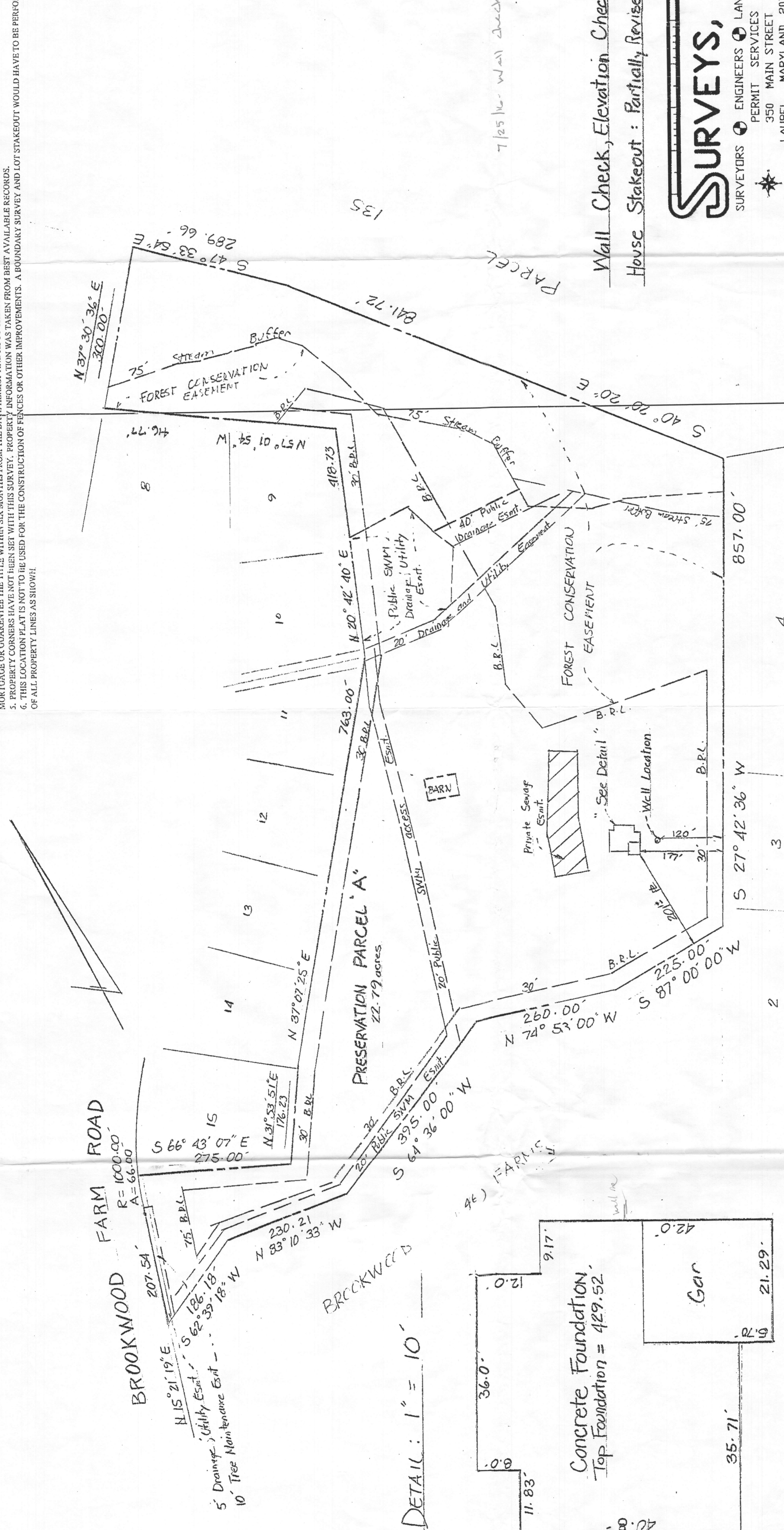
8/16/16 Tank and D-box stake present, SDA corners not staked. Notified contractor. (SC)
 8/19/16 BAT unit onsite. Contractor digging hole for tank.
 2 x 104' trenches shot in field per plan. Ends of trenches staked and painted. SRA stakes confirmed. OK to continue. (JMC)

INSTALLATION: 8/23/16 Tank set, house connection made + covered. D-box installed. Charis digging T2. 2.5' inlet, 6' bottom. Mike Sample on site for hot startup but no water in tank. Charis using laser while digging. (SC) 8/23/16 T2 complete, T1 dug and Charis adding stone. 2.5' to stone above pipe, 6' bottom. (SC) 8/24/16 T1 complete + left open. Mike Sample on site for hot startup. Alarm sounds, pump pumps effluent to D-box. Recirculation good. Need BAT startup certification. (SC) 8/26/16 BAT startup certification received. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 8/26/16

NOTES:

1. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
2. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN ZONE C AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. Howard COUNTY, MARYLAND.
3. FOR TITLE PURPOSES ONLY.
4. THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES, BUT PREPARED FOR THE EXCLUSIVE USE OF THE PRESENT PROPERTY OWNERS OF RECORD AND/OR THOSE WHO PURCHASE, MORTGAGE OR CHARGE THE TITLE WITHIN SIX MONTHS FROM THE DATE HEREOF AND AS TO THEM I WARRANT THIS HOUSE LOCATION PLAT.
5. PROPERTY CORNERS HAVE NOT BEEN SET WITH THIS SURVEY. PROPERTY INFORMATION WAS TAKEN FROM BEST AVAILABLE RECORDS.
6. THIS LOCATION PLAT IS NOT TO BE USED FOR THE CONSTRUCTION OF FENCES OR OTHER IMPROVEMENTS. A BOUNDARY SURVEY AND LOT STAKEOUT WOULD HAVE TO BE PERFORMED TO DETERMINE THE LOCATION OF ALL PROPERTY LINES AS SHOWN!



Wall Check, Elevation Check 3-30-2016
 House Stakeout: Partially Revised 2-5-2016

SURVEYS, INC.
 SURVEYORS ENGINEERS LAND PLANNERS
 PERMIT SERVICES
 350 MAIN STREET
 LAUREL, MARYLAND, 20707

HOUSE LOCATION PLAT
 8110 Brookwood Farm Road
 -LOT(S) Parcel "A" BLOCK _____
BROOKWOOD FARMS
 5 TH
 Howard
 ELECTION DISTRICT
 COUNTY, MARYLAND
 PLAT BOOK # 11848 PLAT
 DWG No. M5-236



DRAWN BY T.C.
 CHECKED BY C.M.
 DATE 12-28-15
 SCALE 1" = 100'
 JOB NO. 15-20
 CASE NO. _____

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS LOT SURVEY IS BASED ON A FIELD SURVEY PERFORMED BY MYSELF OR DIRECTLY UNDER MY SUPERVISION. INFORMATION HEREON WAS OBTAINED FROM COUNTY LAND RECORDS AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IS CORRECT, THAT PROPERTY CORNERS HAVE BEEN FOUND AND/OR SET AS INDICATED.

[Signature]
 GREGORY C. BENEFIELD
 REGISTERED PROFESSIONAL
 LAND SURVEYOR NO. MD. 10994

DATE 12-23-15

L.10388 @ F.115

8110 Brookwood
Farm Rd.

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Assignment Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: rizvi
Reference/Control #: 291

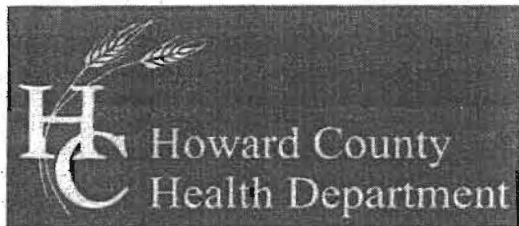
LR - Assignment Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Cash 100.00
Change 40.00

08/12/2015 14:17 CC13-MH
#4681131 /496/109

~ Thank you for visiting us today ~



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 12th day of August, ²⁰¹⁵ among Abid Raza Rizvi, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 8110 Brook Wood Farm Rd., Parcel 'A', in the 5th Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 16204 Folio 280.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is 600 GPD Gravity Discharge System. Hoot System H-600-A BAT.

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.

B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require

maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Beel Nufar 8/12/2015
Howard County Health Department

* Abid Raza Rizvi 8/11/2015
Owner #1 Signature Date

Abid Raza Rizvi
Owner #1 Print Name

Owner #2 Signature Date

Owner #2 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: Gregory Benefiel
Surveys, Inc.

CC: Michael Collins
Legends Builders

FROM: Jeff Williams
Program Supervisor, Well & Septic Program

RE: BAT Design Plan
8110 Brookwood Farm Road

DATE: July 31, 2015

I have reviewed the BAT design Plan for 8110 Brookwood Farm Road and have the following comments for revision.

1. The design plan must indicate the specific dimension and depth of each trench according to the parameters set by the Health Department. Attached is a trench specification sheet for the property indicating the approved maximum trench depth and additional requirements for trench design. The plan must indicate the trench width, depth, length, and pipe invert elevation for each trench.
2. The plan must show the calculations used to determine the required trench length for the property. This starts with an indication of the number of bedrooms in the home to be served by the system. From there, the attached specification sheet includes the equations needed to determine required trench length.
3. Because the system used is a pumped system, the plan must indicate the dynamic head for the system, the pump chosen for the system, the pump curve with the point plotted according to the system dose and head, and must indicate the required dose. In this case, the system is pumping to a distribution box, so a dose somewhere around 50 gallons would be appropriate. Also, the Hoot system does not utilize traditional pump floats. Instead they use probes and a control panel to dose a system for a specific number of minutes. Based on the pump flow, the plan must indicate the number of minutes the pump should be set to run in order to achieve the desired dose. For example, if the pump can handle 30 gallons per minute at the system head, the plan

could indicate that the pump will be set to run for two minutes at a time to achieve a 60 gallon dose.

4. The plan must include a set of standard notes required on all BAT plans in Howard County. Attached is a set of requirements including the required notes.

Please make the above corrections and resubmit the plan for review. If you would like to set up a meeting to go over the requirements, feel free to contact me at 410-313-1771.

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Friday, July 31, 2015 3:57 PM
To: 'surveysinc@verizon.net'
Cc: 'legendsgroup@comcast.net'
Subject: BAT plan 8110 Brookwood Farm Rd
Attachments: 8110 Brookwood Farm Rd BAT plan memo.pdf; 20150731122929664.pdf; BAT site plan requirements 9-19-13.pdf

Attached is the Health Dept response to the BAT plan at 8110 Brookwood Farm Rd. Also attached are a spec sheet and BAT site plan guidance document. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.



MAYER BROS., INC.
Precast Concrete Products
6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 8110 Brookwood Farm Rd.
Fulton, MD. 20759

Date of Final Inspection: 8/24/16

Installer: Chavis Enterprises LLC,

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

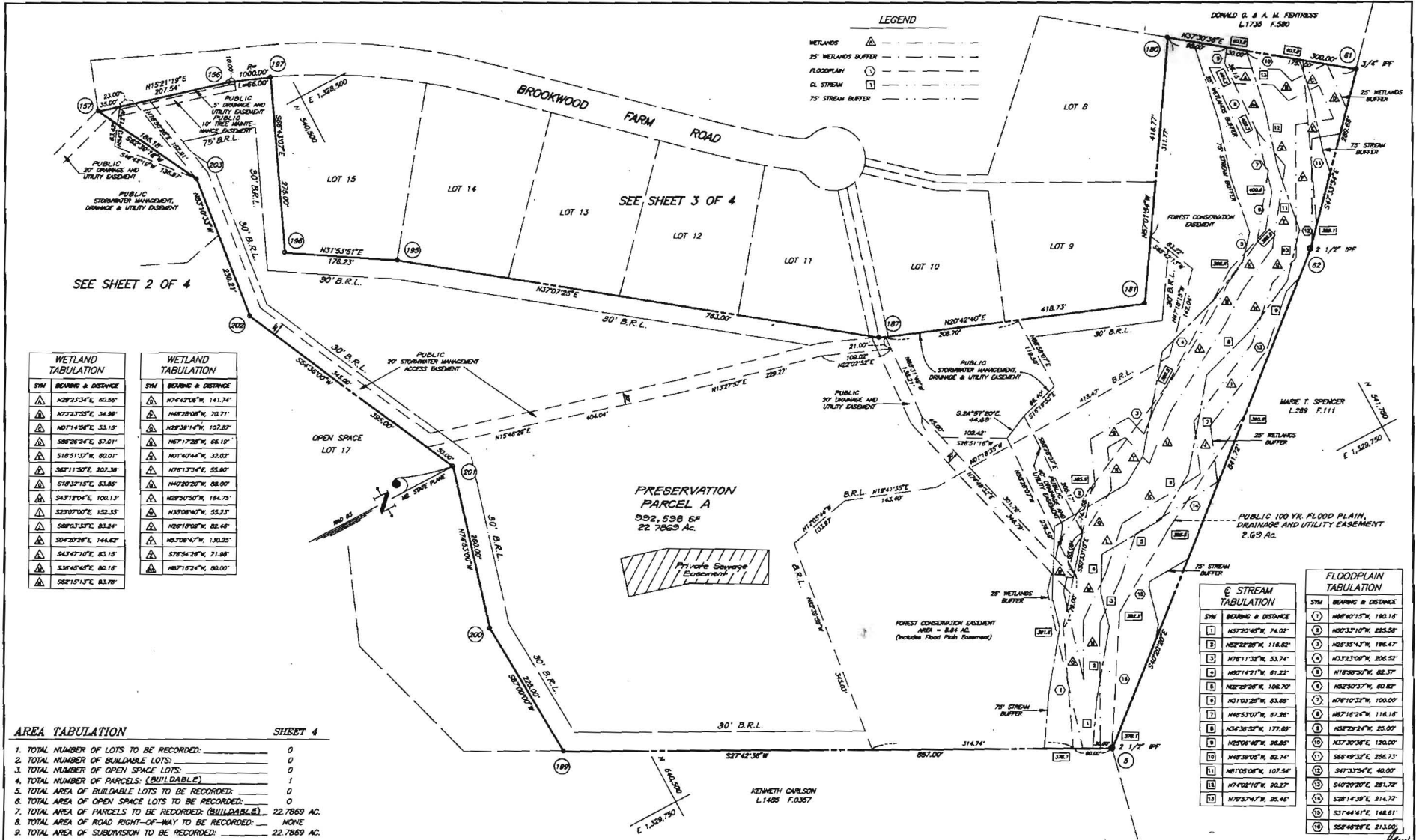
H. Michael Dwyer
Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434
FX: 410-796-1438

WBE

info@mayerprecast.com
www.mayerprecast.com

Grease Interceptors, HOOT Aerobic Treatment Units, Septic Tanks, Holding Tanks, Bench Barrier, Water Meter Vaults,
Sectional Valve Units, Top Slabs, Curb Heads, Curb Bumpers, Custom Precast Products



WETLAND TABULATION	
SYM	BEARING & DISTANCE
△	N23°23'34"E, 60.56'
△	N72°23'52"E, 34.89'
△	N07°14'58"E, 53.15'
△	S82°28'24"E, 57.51'
△	S18°51'37"W, 80.01'
△	S82°11'50"E, 80.28'
△	S18°52'15"E, 53.85'
△	S41°18'04"E, 100.13'
△	S22°07'07"E, 152.33'
△	S80°23'57"E, 83.24'
△	S04°28'27"E, 144.82'
△	S43°47'12"E, 83.18'
△	S34°45'42"E, 86.18'
△	S82°15'13"E, 83.78'

WETLAND TABULATION	
SYM	BEARING & DISTANCE
△	N26°42'00"W, 141.24'
△	N48°28'00"W, 70.71'
△	N28°38'14"W, 103.87'
△	N07°17'38"W, 66.19'
△	N07°14'04"W, 32.02'
△	N07°13'34"E, 55.80'
△	N40°20'20"W, 88.00'
△	N08°30'50"W, 184.73'
△	N43°08'40"W, 55.23'
△	N08°18'08"W, 82.48'
△	N52°08'47"W, 133.25'
△	S78°54'20"W, 71.88'
△	N07°18'24"W, 80.00'

AREA TABULATION		SHEET 4
1. TOTAL NUMBER OF LOTS TO BE RECORDED:	0	
2. TOTAL NUMBER OF BUILDABLE LOTS:	0	
3. TOTAL NUMBER OF OPEN SPACE LOTS:	0	
4. TOTAL NUMBER OF PARCELS (BUILDABLE):	1	
5. TOTAL AREA OF BUILDABLE LOTS TO BE RECORDED:	0	
6. TOTAL AREA OF OPEN SPACE LOTS TO BE RECORDED:	0	
7. TOTAL AREA OF PARCELS TO BE RECORDED (BUILDABLE):	22.7869 AC.	
8. TOTAL AREA OF ROAD RIGHT-OF-WAY TO BE RECORDED:	NONE	
9. TOTAL AREA OF SUBDIVISION TO BE RECORDED:	22.7869 AC.	

@ STREAM TABULATION		FLOODPLAIN TABULATION	
SYM	BEARING & DISTANCE	SYM	BEARING & DISTANCE
①	N86°40'15"W, 190.16'	①	N86°40'15"W, 190.16'
②	N57°20'45"W, 74.02'	②	N80°33'10"W, 225.58'
③	N82°22'28"E, 118.82'	③	N82°35'47"W, 196.47'
④	N78°11'32"W, 53.74'	④	N23°23'00"W, 306.52'
⑤	N07°12'21"W, 81.22'	⑤	N18°28'20"W, 62.37'
⑥	N82°29'28"W, 108.70'	⑥	N52°30'37"W, 62.82'
⑦	N01°12'25"W, 83.85'	⑦	N07°10'32"W, 100.00'
⑧	N48°33'07"E, 87.86'	⑧	N87°16'22"W, 118.18'
⑨	N45°38'52"E, 177.88'	⑨	N52°29'24"W, 25.00'
⑩	N20°04'47"W, 98.85'	⑩	N37°30'36"E, 190.00'
⑪	N48°39'05"W, 82.24'	⑪	S88°49'32"E, 256.73'
⑫	N81°05'00"W, 107.54'	⑫	S47°37'54"E, 40.00'
⑬	N74°02'10"W, 80.27'	⑬	S40°20'20"E, 281.72'
⑭	N09°37'47"W, 25.45'	⑭	S38°14'28"E, 214.72'
		⑮	S37°44'41"E, 148.81'
		⑯	S28°45'28"E, 213.00'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Bond 7/24/95
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Marsha J. McCay 8/18/95
DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Alan M. [Signature] 7/26/95
DIRECTOR DATE

OWNERS' CERTIFICATE

Corman Associates, a Maryland General Partnership, by Phil Manglitz, general partner, owner of the property shown and described hereon, hereby adopt this plan of subdivision, and in consideration of the approval of this Final Plat by the Department of Planning and Zoning, establish the minimum building restriction lines and grant unto Howard County, Maryland, its successors and assigns, (1) the right to lay, construct and maintain sewers, drains, water pipes and other municipal utilities and services, in and under all roads and street rights-of-way and the specific easements shown hereon; (2) the right to require dedication for public use the beds of the streets and/or roads, and floodplains and open space where applicable and for good and other valuable consideration, hereby grant the right and option to Howard County to acquire the fee simple title to the beds of the streets and/or roads and floodplains, storm drainage facilities and open space where applicable; and (3) the right to require dedication of waterways and drainage easements for the specific purpose of their construction, repair and maintenance; and (4) that no building or similar structure of any kind shall be erected on or over the said easements and rights-of-way.

Witness our hands this 9 day of JANUARY 1995

ATTEST: *[Signature]* BY: *Phil Manglitz G.P.*
PHIL MANGLITZ, General Partner

SURVEYOR'S CERTIFICATE

I hereby certify that the Final Plat shown hereon is correct; that it is a subdivision of all the land conveyed by First American Properties of Maryland, a Maryland corporation, to Corman Associates, a Maryland general partnership, by a deed dated November 28, 1984 and recorded among the Land Records of Howard County, Maryland in Liber 3391 of Folio 644, and that all monuments are in place or will be in place prior to the acceptance of the streets in the subdivision by Howard County, as shown, in accordance with the Annotated Code of Maryland, as amended.

Paul W. Clark, Jr. 1/19/95
REGISTERED PROPERTY LINE SURVEYOR DATE
MARYLAND #217

RECORDED AS PLAT 11848
ON AUG 24, 1995 AMONG THE LAND RECORDS
OF HOWARD COUNTY, MARYLAND.

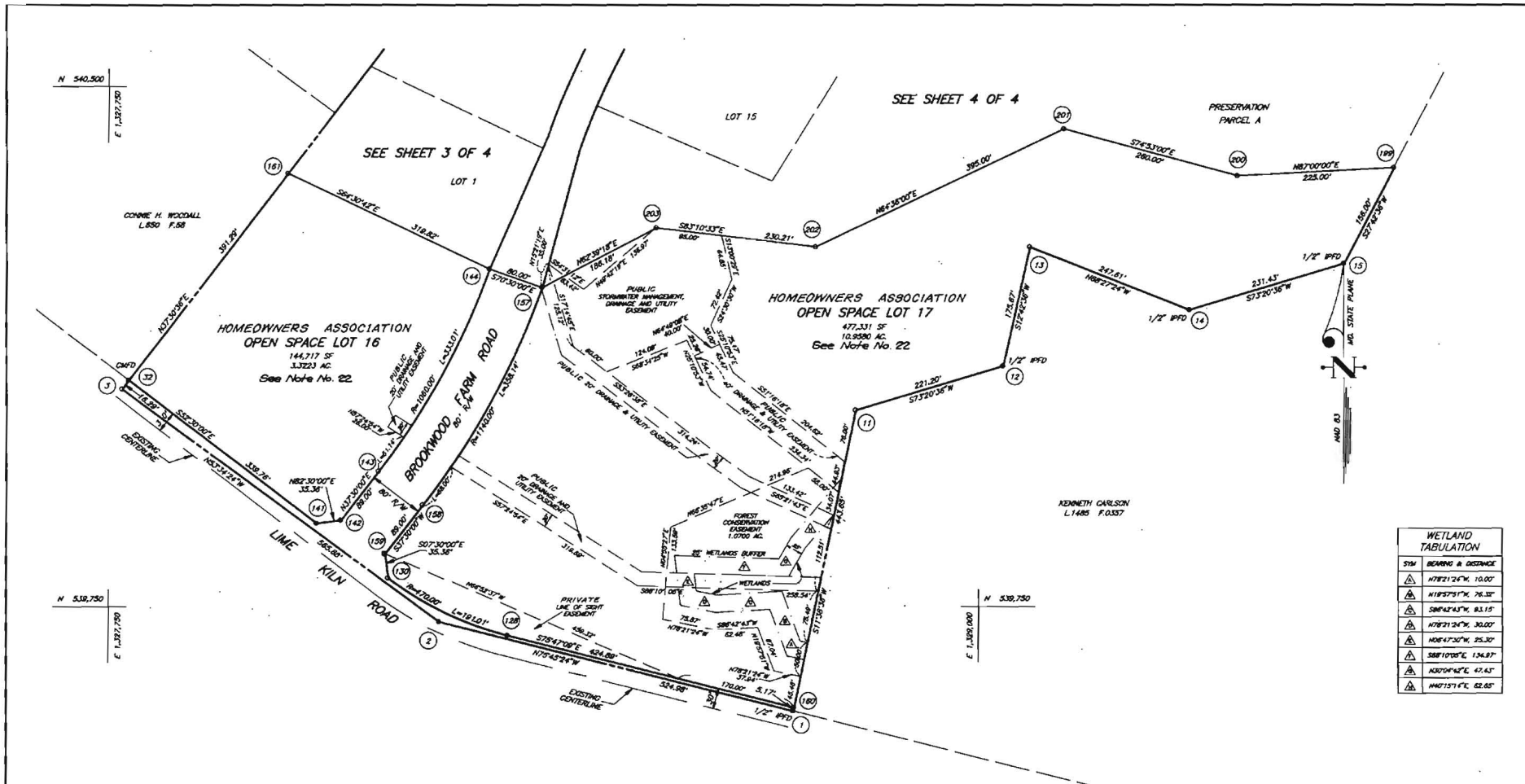
BROOKWOOD FARMS
LOTS 1 - 17 AND
PRESERVATION PARCEL "A"

TAX MAP #40 & 45 PARCEL 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SHEET 4 OF 4

SCALE: 1" = 100' DATE: JULY 21, 1995

CLARK • FINEPROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

F-95-01 94-064 R



WETLAND TABULATION	
SYM	BEARING & DISTANCE
△	N07°21'24"W 10.00'
△	N18°57'01"W 26.50'
△	S08°42'45"W 83.15'
△	N07°21'24"W 30.00'
△	N08°47'30"W 25.30'
△	S08°10'05"E 134.87'
△	N00°04'42"E 47.65'
△	N00°15'14"E 62.65'

AREA TABULATION SHEET 2

1. TOTAL NUMBER OF LOTS TO BE RECORDED:	2
2. TOTAL NUMBER OF BUILDABLE LOTS:	0
3. TOTAL NUMBER OF OPEN SPACE LOTS:	2
4. TOTAL NUMBER OF PARCELS:	0
5. TOTAL AREA OF BUILDABLE LOTS TO BE RECORDED:	0
6. TOTAL AREA OF OPEN SPACE LOTS TO BE RECORDED:	14,280.3 AC
7. TOTAL AREA OF PARCELS TO BE RECORDED:	0
8. TOTAL AREA OF ROAD RIGHT-OF-WAY TO BE RECORDED:	1,076.1 AC
9. TOTAL AREA OF SUBDIVISION TO BE RECORDED:	15,356.4 AC

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd 7/24/95
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Maureen J. J. Laughlin 8/12/95
DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Alan M. Tangeman 7/26/95
DIRECTOR DATE

OWNERS' CERTIFICATE

Carman Associates, a Maryland General Partnership, by Phil Manglitz, general partner, owner of the property shown and described hereon, hereby adopt this plan of subdivision, and in consideration of the approval of this Final Plat by the Department of Planning and Zoning, establish the minimum building restriction lines and grant unto Howard County, Maryland, its successors and assigns, (1) the right to lay, construct and maintain sewers, drains, water pipes and other municipal utilities and services, in and under all roads and street rights-of-way and the specific easements shown hereon; (2) the right to require dedication for public use the beds of the streets and/or roads, and floodplains and open space where applicable and for good and other valuable consideration, hereby grant the right and option to Howard County to acquire the fee simple title to the beds of the streets and/or roads and floodplains, storm drainage facilities and open space where applicable; and (3) the right to require dedication of waterways and drainage easements for the specific purpose of their construction, repair and maintenance; and (4) that no building or similar structure of any kind shall be erected on or over the said easements and rights-of-way.

Witness our hands this 3 day of JANUARY 1995
ATTEST: *Blanche* BY: *Phil Manglitz G.P.*
PHIL MANGLITZ, General Partner

SURVEYOR'S CERTIFICATE

I hereby certify that the Final Plat shown hereon is correct; that it is a subdivision of all the land conveyed by First American Properties of Maryland, a Maryland corporation, to Carman Associates, a Maryland general partnership, by a deed dated November 29, 1984 and recorded among the Land Records of Howard County, Maryland in Liber 3391 at Folio 644, and that all monuments are in place or will be in place prior to the acceptance of the streets in the subdivision by Howard County, as shown, in accordance with the Annotated Code of Maryland, as amended.

Paul W. Clark Jr. 1/13/95
PAUL W. CLARK, JR.
REGISTERED PROPERTY LINE SURVEYOR
MARYLAND #237



RECORDED AS PLAT 11846
ON APR 26, 1995 AMONG THE LAND RECORDS
OF HOWARD COUNTY, MARYLAND.

BROOKWOOD FARMS
LOTS 1 - 17 AND
PRESERVATION PARCEL "A"

TAX MAP #40 & 45 PARCEL 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SHEET 2 OF 4
SCALE: 1" = 100' DATE: JULY 21, 1995

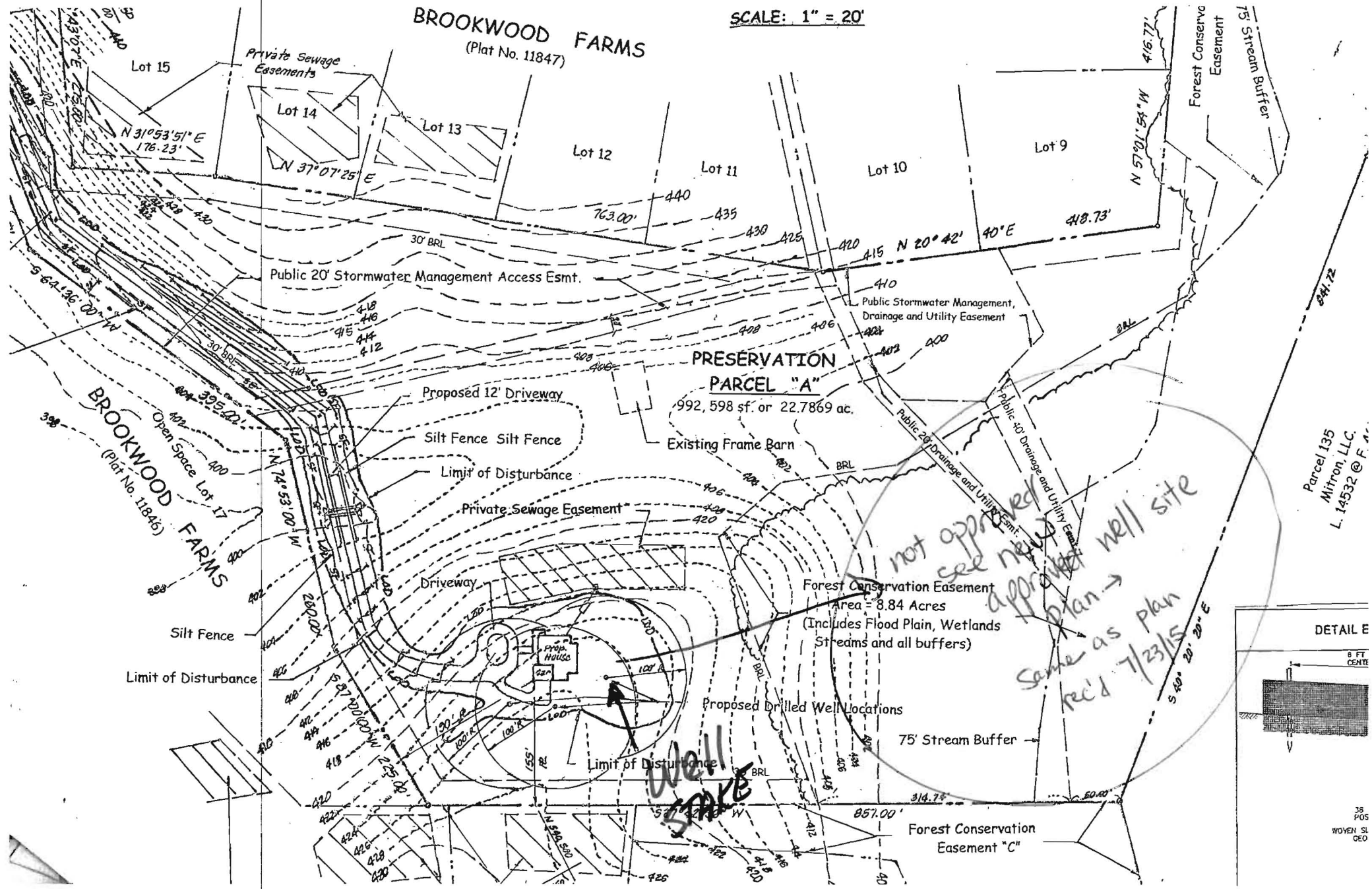
CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7126 MONTGOMERY • COLUMBIA, MD 21046 • (410) 381-7000 FAX: (410) 811-4100

* 8110 BROOKWOOD FARM RD
 FULTON MD 20759

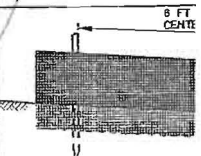
8110

SCALE: 1" = 20'



Parcel 135
 Mirron, LLC.
 L. 14532 @ F.A.

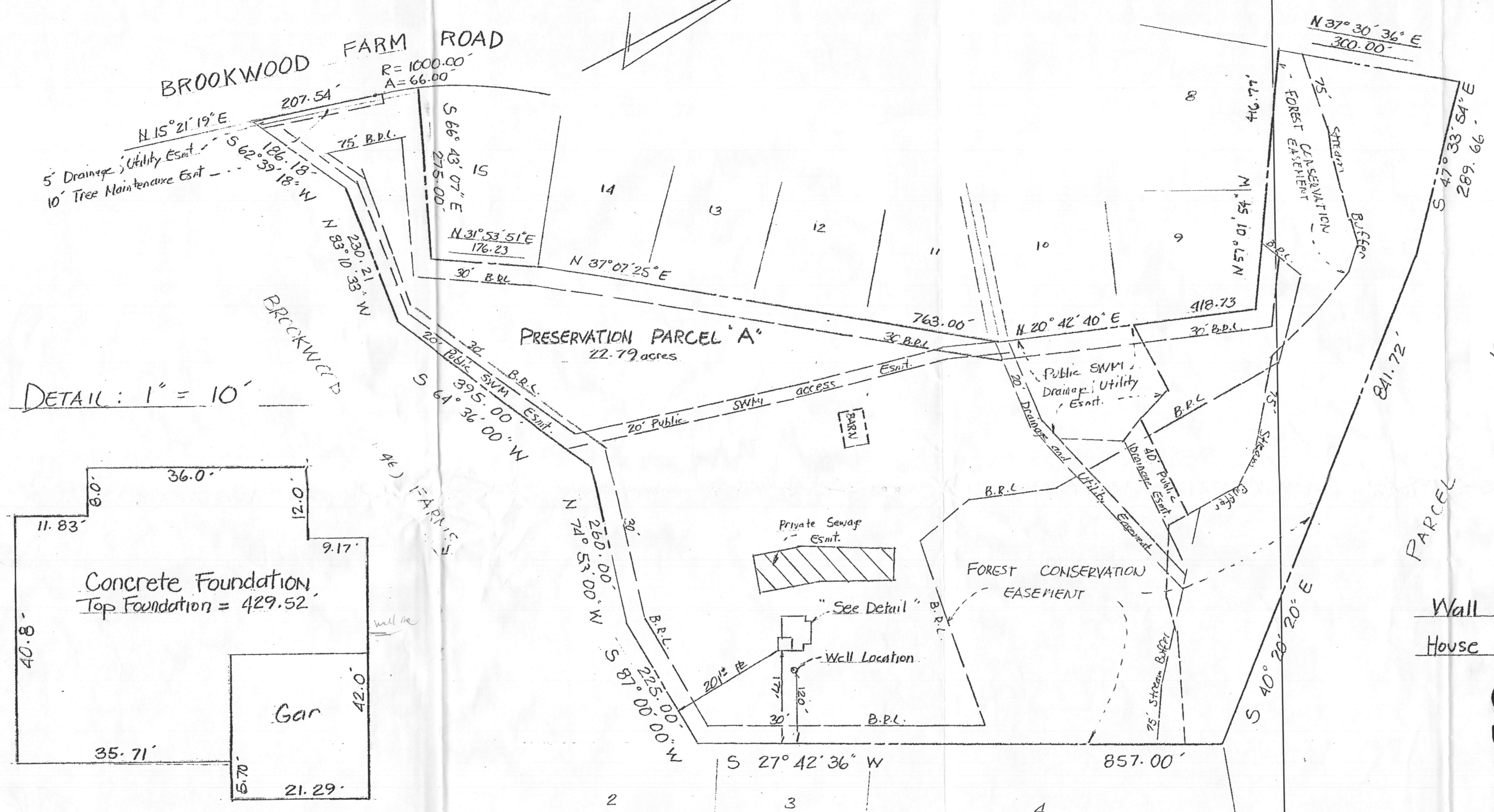
DETAIL E



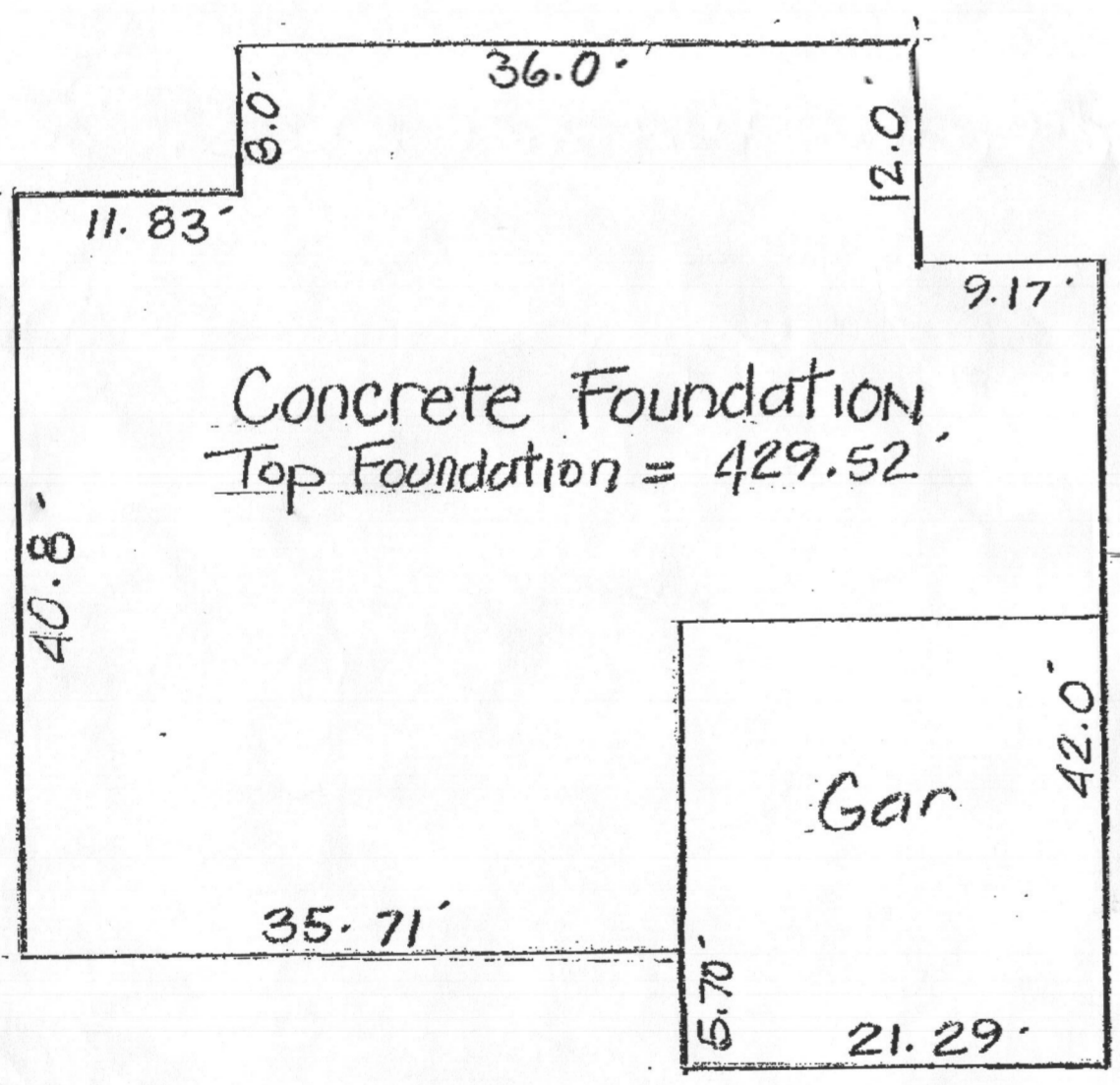
38
 FOS
 WOVEN SL
 GEO

NOTES:

1. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
2. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN ZONE C AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. _____ OF Howard COUNTY, MARYLAND.
3. FOR TITLE PURPOSES ONLY.
4. THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES, BUT PREPARED FOR THE EXCLUSIVE USE OF THE PRESENT PROPERTY OWNERS OF RECORD AND/OR THOSE WHO PURCHASE, MORTGAGE OR GUARENTEE THE TITLE WITHIN SIX MONTHS FROM THE DATE HEREOF AND AS TO THEM I WARRANT THIS HOUSE LOCATION PLAT.
5. PROPERTY CORNERS HAVE NOT BEEN SET WITH THIS SURVEY. PROPERTY INFORMATION WAS TAKEN FROM BEST AVAILABLE RECORDS.
6. THIS LOCATION PLAT IS NOT TO BE USED FOR THE CONSTRUCTION OF FENCES OR OTHER IMPROVEMENTS. A BOUNDARY SURVEY AND LOT STAKEOUT WOULD HAVE TO BE PERFORMED TO DETERMINE THE LOCATION OF ALL PROPERTY LINES AS SHOWN.



DETAIL: 1" = 10'



7/25/16 - Wall check okay. H.O.
 Wall Check, Elevation Check 3-30-2016
 House Stakeout: Partially Revised 2-5-2016

SURVEYS, INC.
 SURVEYORS ENGINEERS LAND PLANNERS
 PERMIT SERVICES
 350 MAIN STREET
 LAUREL, MARYLAND, 20707

SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS LOT SURVEY IS BASED ON A FIELD SURVEY PERFORMED BY MYSELF OR DIRECTLY UNDER MY SUPERVISION. INFORMATION HEREON WAS OBTAINED FROM COUNTY LAND RECORDS AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IS CORRECT, THAT PROPERTY CORNERS HAVE BEEN FOUND AND/OR SET AS INDICATED.

12-23-15
 DATE

[Signature]
 GREGORY C. BENEFIELD
 REGISTERED PROFESSIONAL
 LAND SURVEYOR No. MD. 10994

DRAWN BY T.O.
 CHECKED BY C.S.V.
 DATE 12-23-15
 SCALE 1" = 100'
 JOB NO. 15-20
 CASE NO. _____



HOUSE LOCATION PLAT
8110 Brookwood Farm Road
 LOT(S) Parcel "A" BLOCK _____
BROOKWOOD FARMS
5 TH ELECTION DISTRICT
Howard COUNTY, MARYLAND
 PLAT BOOK #11848 PLAT _____ DWG No. M15-236

B-4.8 STANDARDS AND SPECIFICATIONS

FOR STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

- The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- Runoff from the stockpile area must drain to a suitable sediment control practice.
- Access the stockpile area from the upgrade side.
- Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
- Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
- Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

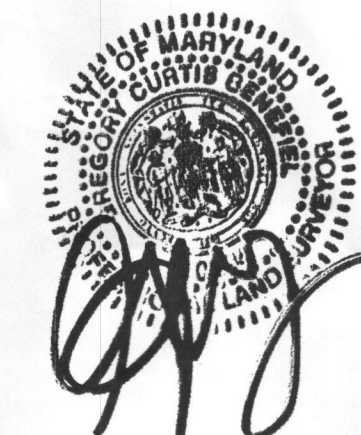
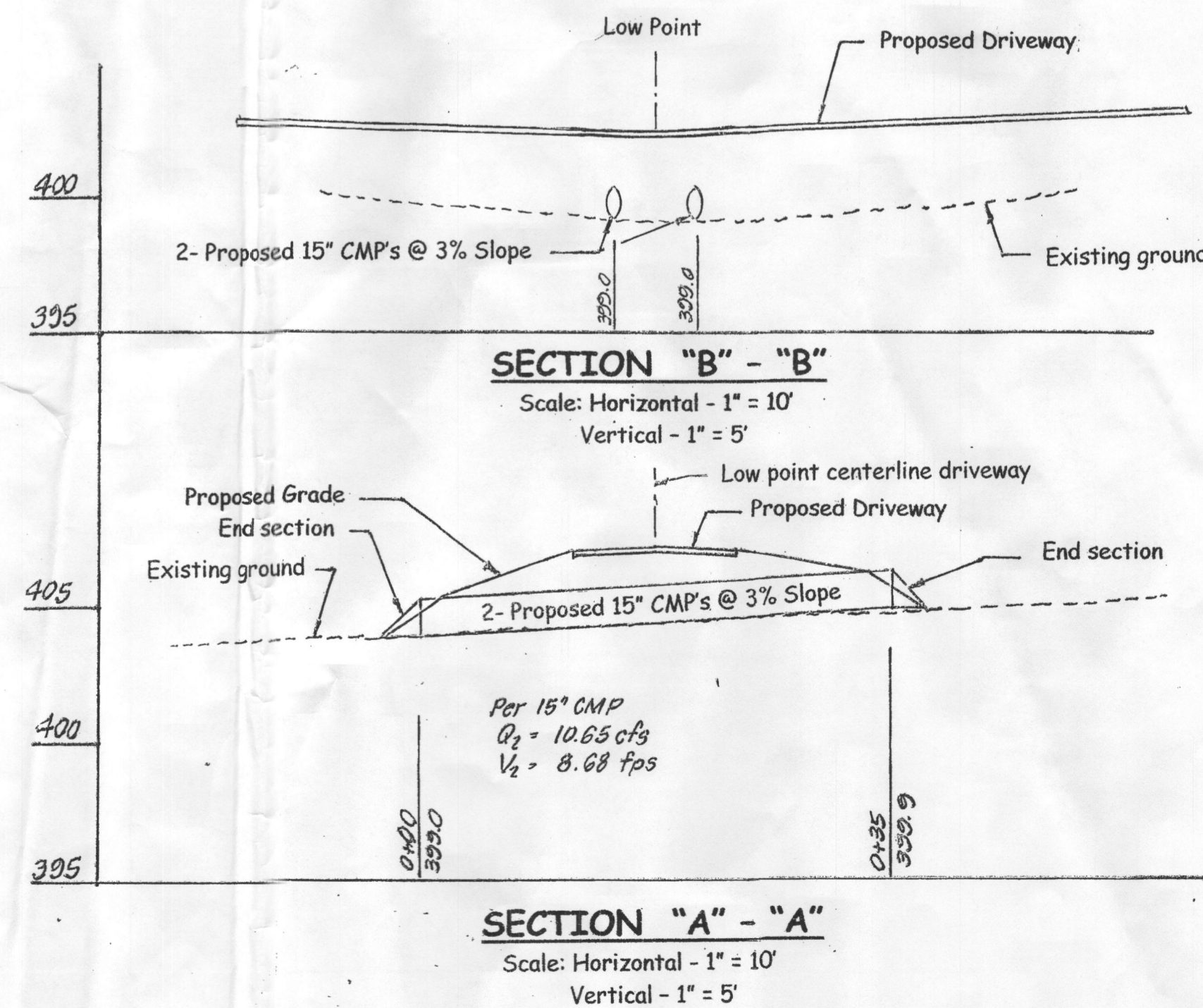
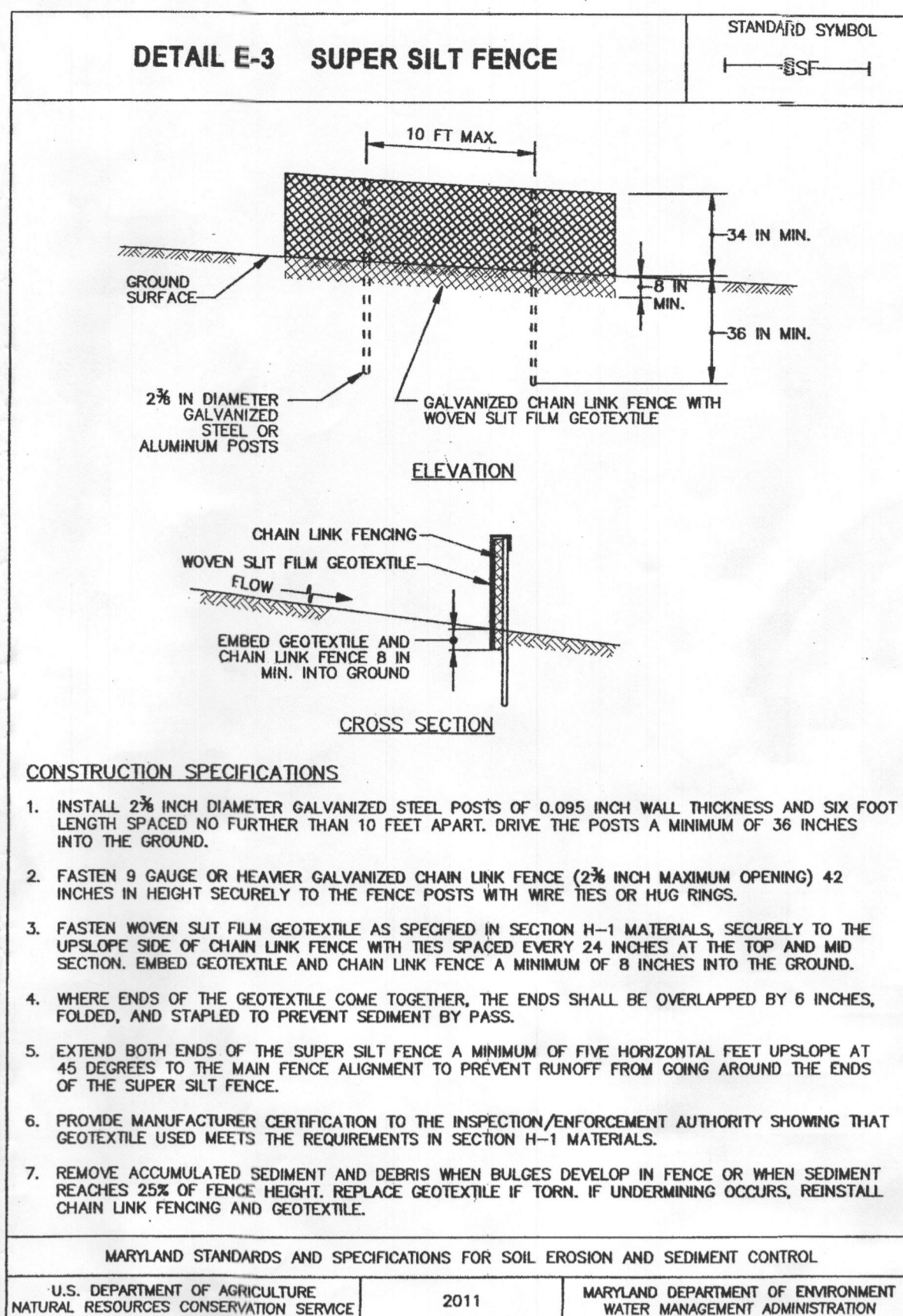
Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Public Works, Construction Inspection Division (CID) prior to the start of any construction (410-313-1855)
- 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.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 3 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 7 days as to all other disturbed or graded areas on the project site.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 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.
- Site Analysis:

Total Area of Site	22.78	Acres
Area Disturbed	2.07	Acres
Area to be roofed or paved	0.49	Acres
Area to be vegetatively stabilized	1.62	Acres
Total Cut	1520±	Cu. Yds.
Total Fill	1500±	Cu. Yds.
Offsite waste/borrow are location	N/A	
- Any sediment control practice that is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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 shall be back-filled and stabilized by the end of each workday, whichever is shorter.
- Any changes or revisions to the sequence of construction must be reviewed and approved by the plan approval authority prior to proceeding with construction.
- A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 30 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority. Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.



SURVEYS, INC.
 SURVEYORS * ENGINEERS * LAND PLANNERS
 PERMIT SERVICES
 250 MAIN STREET
 LAUREL, MARYLAND, 21071
 PHONE 301-716-0561 FAX 301-716-0642

DATE	REVISION

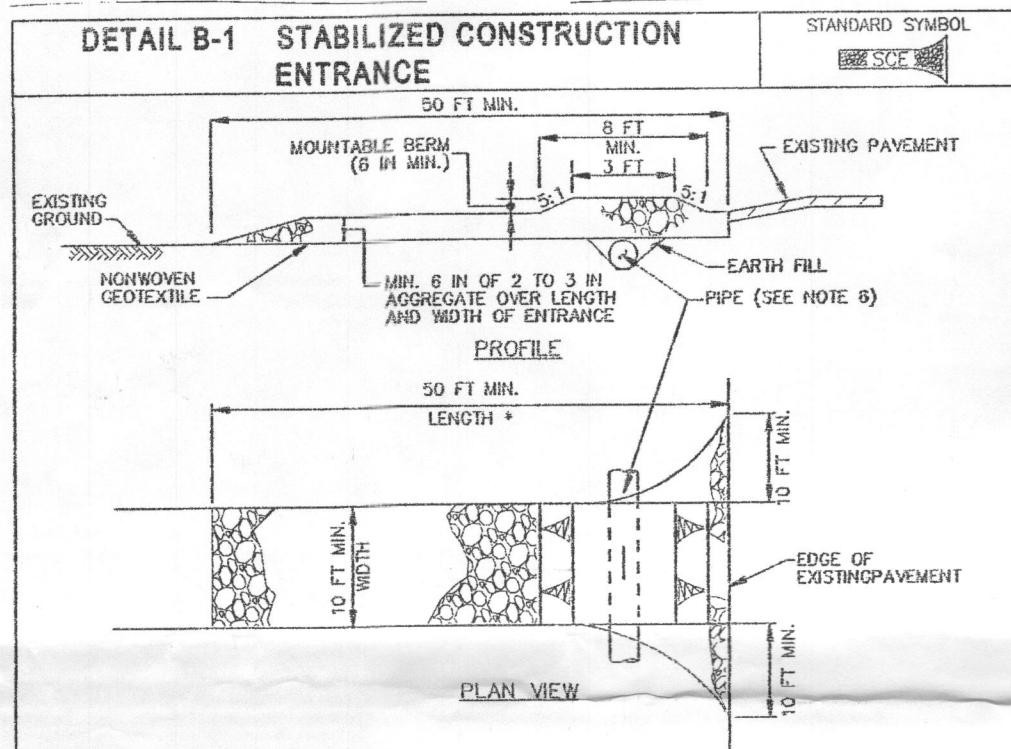
Site Development, Grading and Erosion & Sediment Control Plan
 E Lime Kiln Road - Brookwood Farm Road
 Preservation Parcel "A"
BROOKWOOD FARMS
 5th Election District
 Howard County, Maryland

SCALE	DESIGNER	CHECKED BY
A3-Shawn	EBB	EBB
DATE	DRAFTER	FIELD BOOK
July 2015	EBB	
JOB NUMBER	SHEET NUMBER	FILE NUMBER
15-20	3 of 3	L-399

LEGEND

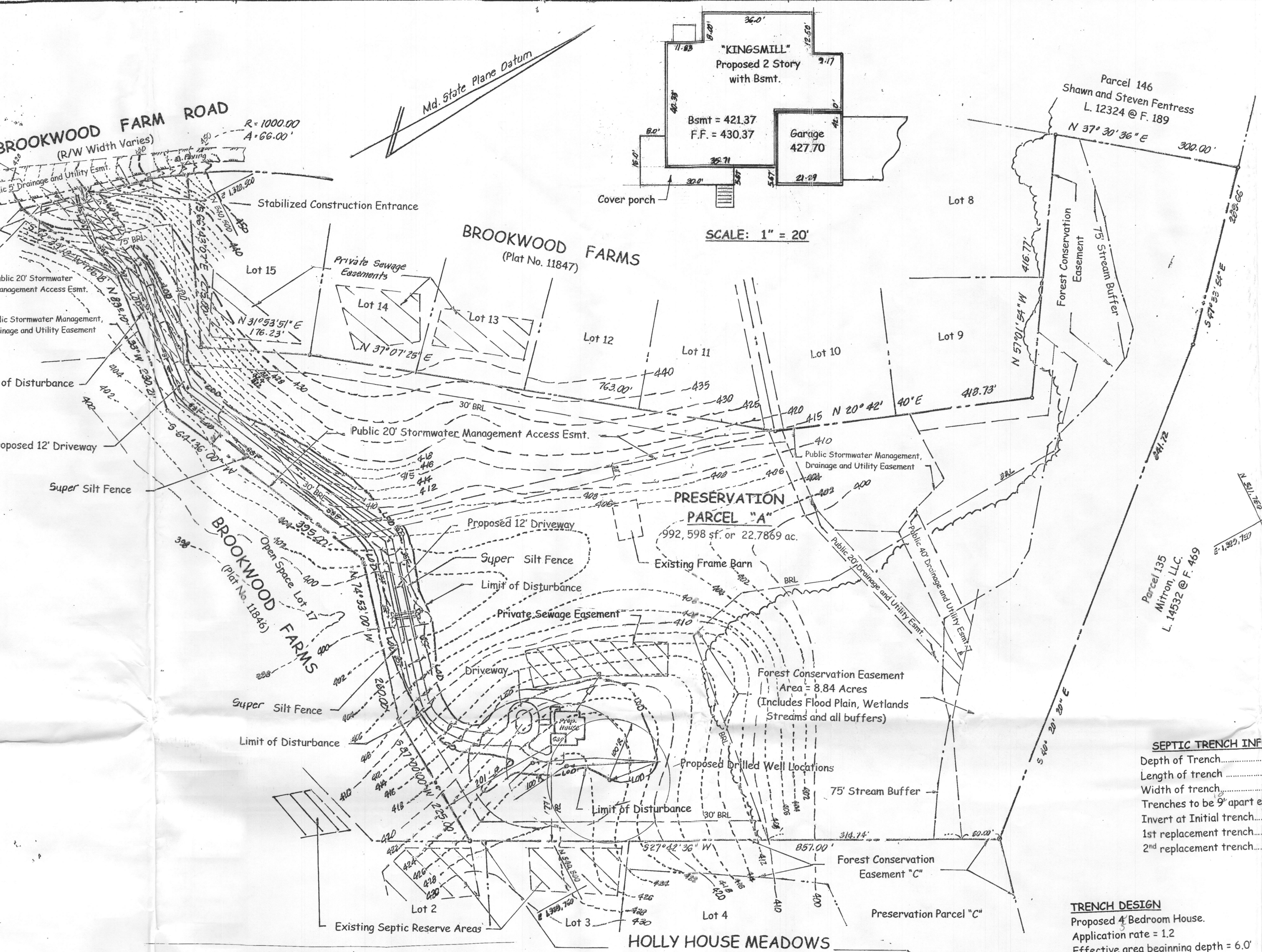
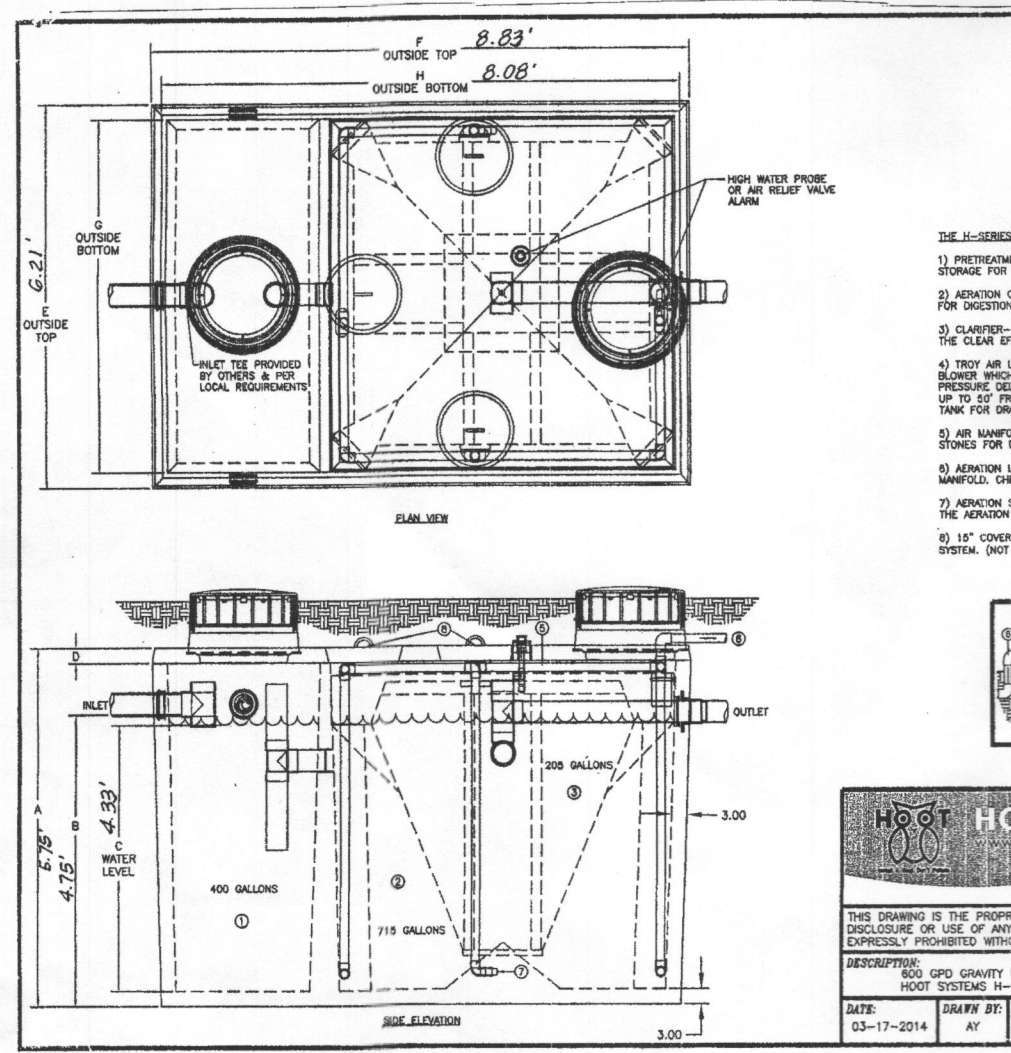
These standard symbols will be found in the drawing.

- EX. ELEVATIONS
- PROP. ELEVATIONS
- EX. CONTOURS (2'4.5')
- PROP. CONTOURS
- EX. WOODLINE
- SPECIFIC TREES
- STREAM/CREEK
- CONC. CURB
- SEWER LINE
- WATER LINE
- TREE CONSERVATION
- SEWER MANHOLE
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- UTILITY POLE W/LGHT
- ELEC. LINE
- ED. ROAD
- SPEC. FENCE

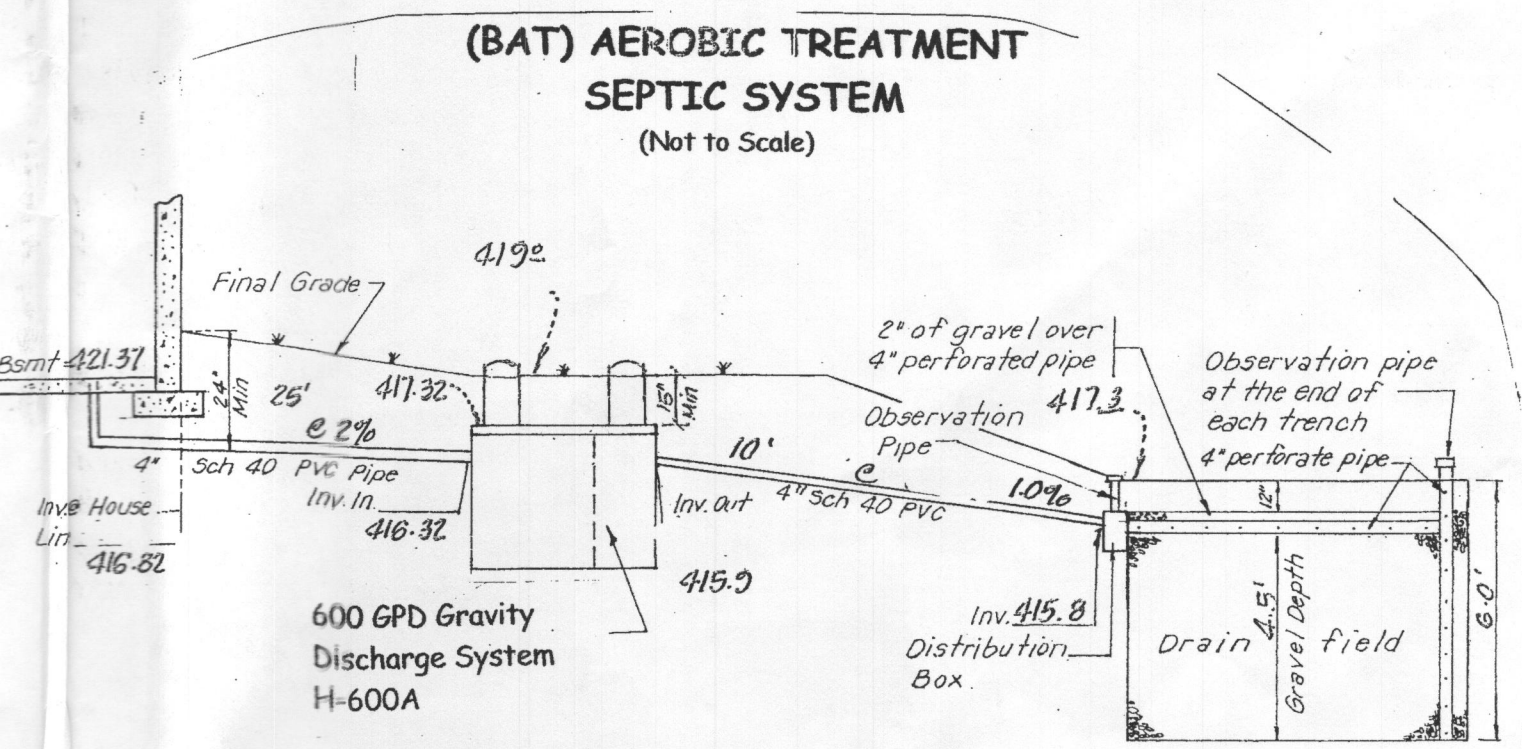


- ### CONSTRUCTION SPECIFICATIONS
- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SEE. USE MINIMUM LENGTH OF 20 FEET (20 FEET FOR SINGLE RESIDENCE LOTS, USE MINIMUM WIDTH OF 10 FEET. PLACE SEE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
 - PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SEE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SEE WITH A MOUNTAIN BEAM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SEE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTAIN BEAM IS REQUIRED WHEN SEE IS NOT LOCATED AT A HIGH SPOT.
 - PREPARE SUBGRADE AND PLACE HAWTHORN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
 - PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT REINFORCED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SEE.
 - MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTAIN BEAM, AND SPECIFIED DIMENSIONS. SIMILARLY REMOVE STONE AND/OR SEDIMENT SPILLED, UNWIPED, OR TRACKED ONTO ADJACENT ROADWAY BY MACHINERY, VEHICLES, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT
WATER RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION



- ### GENERAL NOTES (Health Department)
- This area designates a private sewerage easement at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewerage disposal. Improvements of any nature in this area are restricted until public sewerage is available. These easements shall become null and void upon connection to a public sewerage system. The County Health Officer shall have the authority to grant adjustments to the private sewerage easement recordation of a modified sewerage easement shall not be necessary.
 - The lot shown hereon complies with the minimum ownership width and lot areas as required by the Maryland State Department of the Environment.
 - Existing wells and/or sewerage easement within 100 feet of the property have been shown from the best available information.
 - All house sites comply with minimum building restriction regulations.
 - All wells shall be drilled prior to final plat recordation. It is the developer's responsibility to schedule the well drilling prior to final plat submittal. It will not be considered government delayed if the well drilling holds up the Health Department signature of the record plat.



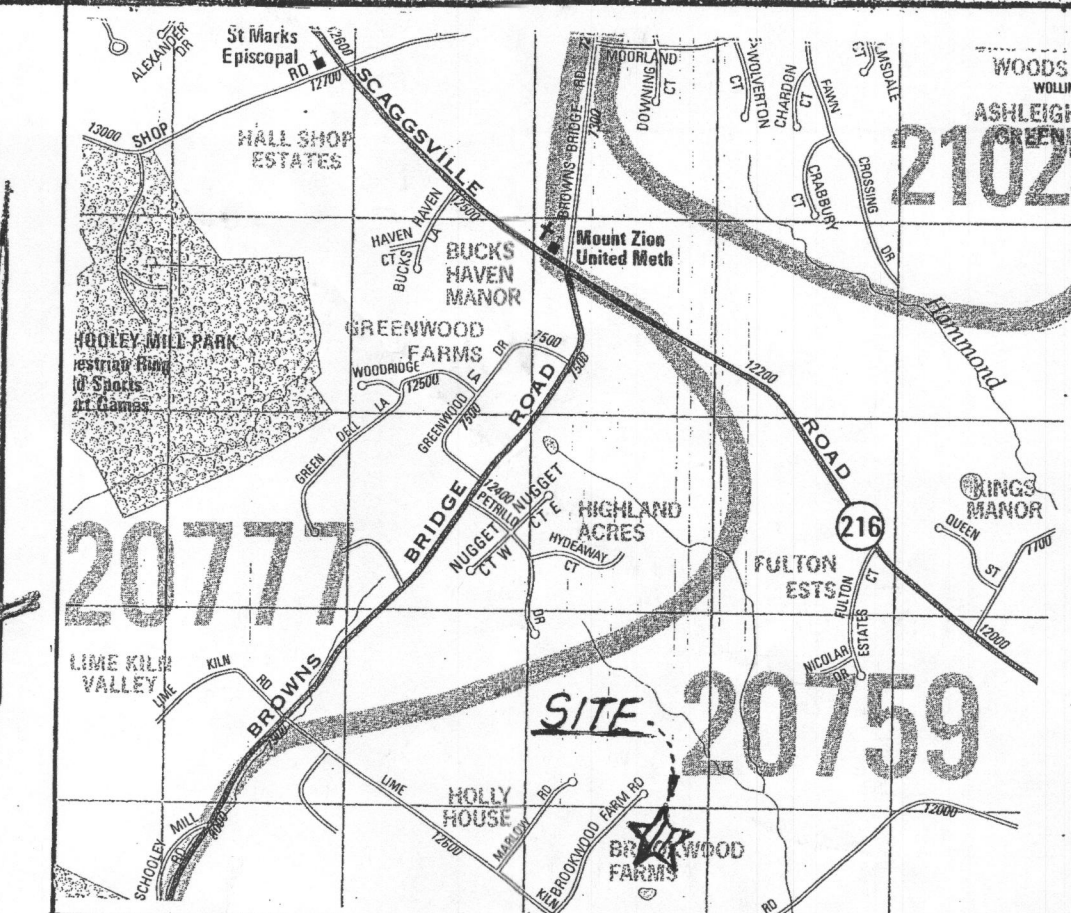
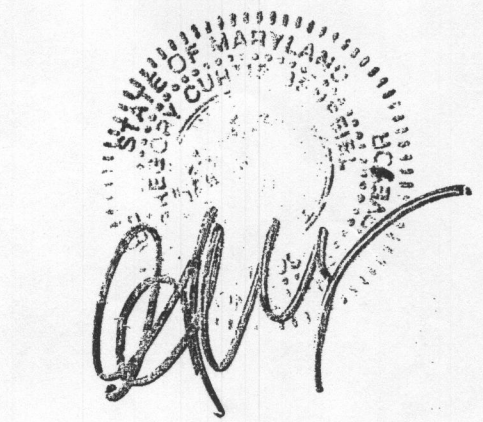
For detailed grading and layout see sheet 2 of 2.

ENGINEER'S CERTIFICATE
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Gregory C. Benefiel
Registered Professional Surveyor No. # 10994
License Exp. Aug. 8, 2016
Date: 6-3-2015

DEVELOPER'S CERTIFICATE
"We certify that all development and construction will be done according to this plan 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 inspection by the Howard Soil Conservation District."
Michael Collins
Legends Builders, Inc.
Date: 6-3-2015

Approved for private water and private sewerage systems in conformance with the master plan of Howard County.

Howard County Health Official Date



VICINITY MAP

Scale: 1" = 2000'
Copyright ADC "The Map People" Permitted Use No. 20492158

GENERAL NOTES

- Site zoned RR-DEO per 10-1993 Comprehensive Zoning Plan
- Area of Site = 992,598 sf or 22.7869 ac.
- Site is located on Tax Map 45, Grid 6, Parcel 1.
- Site is located on ADC Map page 18, grid E-5
- Property Account No. - 414938.
- Water and Sewer is to be private.
- Owner: Abid Raza Rizvi
9901 Midsummer Snow Lane
Laurel, Md. 20723
- Developer/Builder: Legends Builders, Inc.
P.O. Box 511
Burtonsville, Md. 20866
240-216-4898
- Property Description: a) Plat of Subdivision "BROOKWOODS FARMS" Plat # 11848.
b) Liber 10388 @ Folio 113
- Coordinates are based on NAD 83 Md. Coordinate System projected by Howard Co. Md. Geodetic Control Stations No's 401A and 45CA.
- All easements shown are public unless identified as private.
- Driveway shall be provided prior to residential occupancy to insure safe access for fire and emergency vehicles per the following minimum requirements.
 - Width - 12' wide
 - Surface - 6" of compact crusher run base with tar and chip coating.
 - Geometric - Maximum 15% grade, Max. 10% grade change and minimum 45' turning radius.
 - Structures - (Culverts/bridges) - capable of supporting 25 gross tons (H25 Loading).
 - Drainage Elements - Capable of safely passing a 100 year flood with no more the 1 foot depth over driveway surface
 - Structure Clearance - Minimum 12 feet.
 - Maintenance - Sufficient to insure all weather use.
- Reference Files: S-94-28, P-95-01, F-95-81.
- Topography obtained from the approve Preliminary Plan and field observation.
- Septic reserve easement shown as per record plat of subdivision.

SEPTIC TRENCH INFORMATION

- Depth of Trench.....6.0' deep
- Length of trench.....167 lf.
- Width of trench.....3.0'
- Trenches to be 9' apart edge to edge
- Invert at Initial trench.....415.8
- 1st replacement trench.....413.8'
- 2nd replacement trench.....411.5'

TRENCH DESIGN

- Proposed 4 Bedroom House.
- Application rate = 1.2
- Effective area beginning depth = 6.0'
- Bottom maximum depth = 6.0'
- Design flow = 150 gallons per day (gpd) per bedroom
- Design flow = 4 x 150 = 600 gpd.
- Square footage of drainfield required = 600 gpd ÷ 1.2 = 500 sf.
- Linear length of trench required = 500 sf ÷ 3' wide of trench = 167 lf
- 167 lf ÷ 2 = 83.5' each trench.

Required BAT Site Plan Notes

- Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
- The maximum depth of the BAT per the manufacturer's specification is 3-5 feet.
- The blower may not be located more than 50' feet from the tank based on the manufacturer's specifications.
- The BAT system shall be maintained and operated for the life of the system.
- The BAT shall be operated by and maintained by a certified service provider.
- Within one month of installation a person installing the BAT system shall report to the Maryland Department of the Environment (MDE) in a manner acceptable to MDE, the address and date of completion of the BAT installation and the type of BAT installed.
- Electrical work for the BAT installation must be performed by a licensed electrician.
- An Agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
- The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

Approved Septic System Plan
Howard County Health Department
Signature: [Signature] Date: 8/7/15

SURVEYS, INC.
SURVEYORS • ENGINEERS • LAND PLANNERS
PERMIT SERVICES
350 MAIN STREET
LAUREL, MARYLAND, 20707
PHONE 301-716-0561 FAX 301-716-0641

DATE	REVISION
7-23-15	adjust well location
8-4-15	septic comments H.O.

SITE PLAN FOR BAT INSTALLATION & Site Development, Grading and Erosion & Sediment Control Plan
E Lime Kiln Road - Brookwood Farm Road
Preservation Parcel "A"
BROOKWOOD FARMS
5th Election District
Howard County, Maryland

SCALE	DESIGNER	CHECKED BY
1" = 100'	ELC	ELC
DATE	DRAWN	FIELD BOOK
June, 2015	ELC	
JOB NUMBER	SHEET NUMBER	FILE NUMBER
15-20	1 of 3	L-399

B-4.3 STANDARDS AND SPECIFICATIONS

FOR

SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

A. Seeding

1. Specifications

a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to testing by a recognized seed laboratory. All seed must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B-4.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seedling rate.

b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding method must be applied when the ground thaws.

c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.

d. Sod or seed must not 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 dispersion of phytotoxic materials.

2. Application

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact.

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

i. Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.

c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).

i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P₂O₅ (phosphorus), 200 pounds per acre; K₂O (potassium), 200 pounds per acre.

ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

iii. Mix seed and fertilizer on site and seed immediately and without interruption.

iv. When hydroseeding do not incorporate seed into the soil.

B. Mulching

1. Mulch Materials (in order of preference)

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dirty. Note: Use only sterile straw mulch in areas where use of species of grass is desired.

b. Wood Cellulose Fiber Mulch (WCFCM): Consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.

i. WCFCM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly shaded slurry.

ii. WCFCM, including dye, must contain no germination or growth inhibiting factors.

iii. WCFCM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a fluff-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.

iv. WCFCM material must not contain elements or compounds at concentration levels that will be phytotoxic.

v. WCFCM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

2. Application

a. Apply mulch to all seeded areas immediately after seeding.

b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.

c. Wood cellulose fiber mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

3. Anchoring

a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:

i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.

ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

iii. Synthetic binders such as Acrylic DLR (Agra-Tack), DCA-70, Petrosel, Terra Tex II, Terra Tack A/R or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches much, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

B-4.2 STANDARDS AND SPECIFICATIONS

FOR

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

Criteria

A. Soil Preparation

1. Temporary Stabilization

a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by tilling or other suitable means.

d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Permanent Stabilization

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

i. Soil pH between 6.0 and 7.0.

ii. Soluble salts less than 500 parts per million (ppm).

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if leucopras will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.

iv. Soil contains 1.5 percent minimum organic matter by weight.

v. Soil contains sufficient pore space to permit adequate root penetration.

b. Application of amendments or topsoil is required if one or more of the above conditions.

c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

B. Topsoiling

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.

e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seeded preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seeded loosening may be unnecessary on newly disturbed areas.

Topsoil

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is 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.

2. Topsoil salvaged from an existing site may be used provided it meets the standards 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-NRCS.

3. Topsoiling 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 material is so shallow that the rooting zone is not deep enough to support plants or furnish containing 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.

4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

a. Topsoil must be a loam, sandy loam, clay loam, silty loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil may not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, net sedge, poison ivy, thistle, or others as specified.

c. 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.

6. Topsoil Application

a. Erosion and sediment control practices must be maintained when applying topsoil.

b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to 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 must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if 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 seeded preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil sampling for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 90 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #200 mesh sieve.

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1000 square feet) prior to the placement of topsoil.

B-4.5 STANDARDS AND SPECIFICATIONS

FOR

PERMANENT STABILIZATION

Definition

To stabilize disturbed soils with permanent vegetation.

Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for 6 months or more.

Criteria

A. Seed Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site conditions or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or ditches or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Turfgrass Mixtures

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.

b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentucky Bluegrass/Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Ryegrass Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

iii. Tall Fescue/Kentucky Bluegrass Full Sun Mixture: For use in drought prone areas and/or areas receiving low to medium maintenance in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 5 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue Shade Mixture: For use in areas with shade in bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.

Note: Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo 077, "Turfgrass Cultivar Recommendations for Maryland".

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.

c. Ideal Times of Seeding for Turf Grass Mixtures

Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)

Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)

Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the area to prepare a proper seedbed. Remove stones and debris over 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grass will pose no difficulty.

e. If soil moisture is deficient, supply new seedlings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

5. 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.

6. Topsoil Application

a. Erosion and sediment control practices must be maintained when applying topsoil.

b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to 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 must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if 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 seeded preparation.

d. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 90 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #200 mesh sieve.

e. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

f. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1000 square feet) prior to the placement of topsoil.

7. Sod Installation

a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.

b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are bedded tight in order to prevent voids which would cause air drying of the roots.

c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.

d. Water the sod immediately following rolling and tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.

8. Sod Maintenance

a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.

b. After the first week, sod watering is required as necessary to maintain adequate moisture content.

c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

B-4.4 STANDARDS AND SPECIFICATIONS

FOR

TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3) and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.

2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4.3.A.1.b and maintain until the next seeding season.

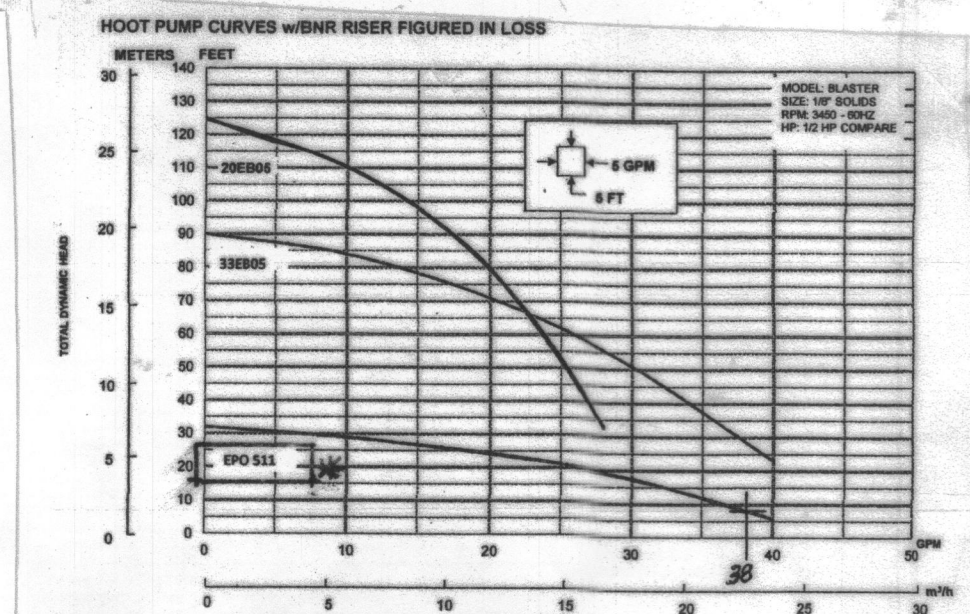
Temporary Seeding Summary

Hardiness Zone (from Figure B.3): 6b				Fertilizer Rate (10-20-20)	Lime Rate
No.	Species	Application Rate (lb/acre)	Seeding Depth		
	Annual Ryegrass	40	3-1/2" (5-3") 8-1/2" (8-3")	436 lb/acre (10 lb/1000 sf)	2 tons/acre (90 lb/1000 sf)
	Perennial Ryegrass	20	6-1" (7-3")		

SEQUENCE OF CONSTRUCTION

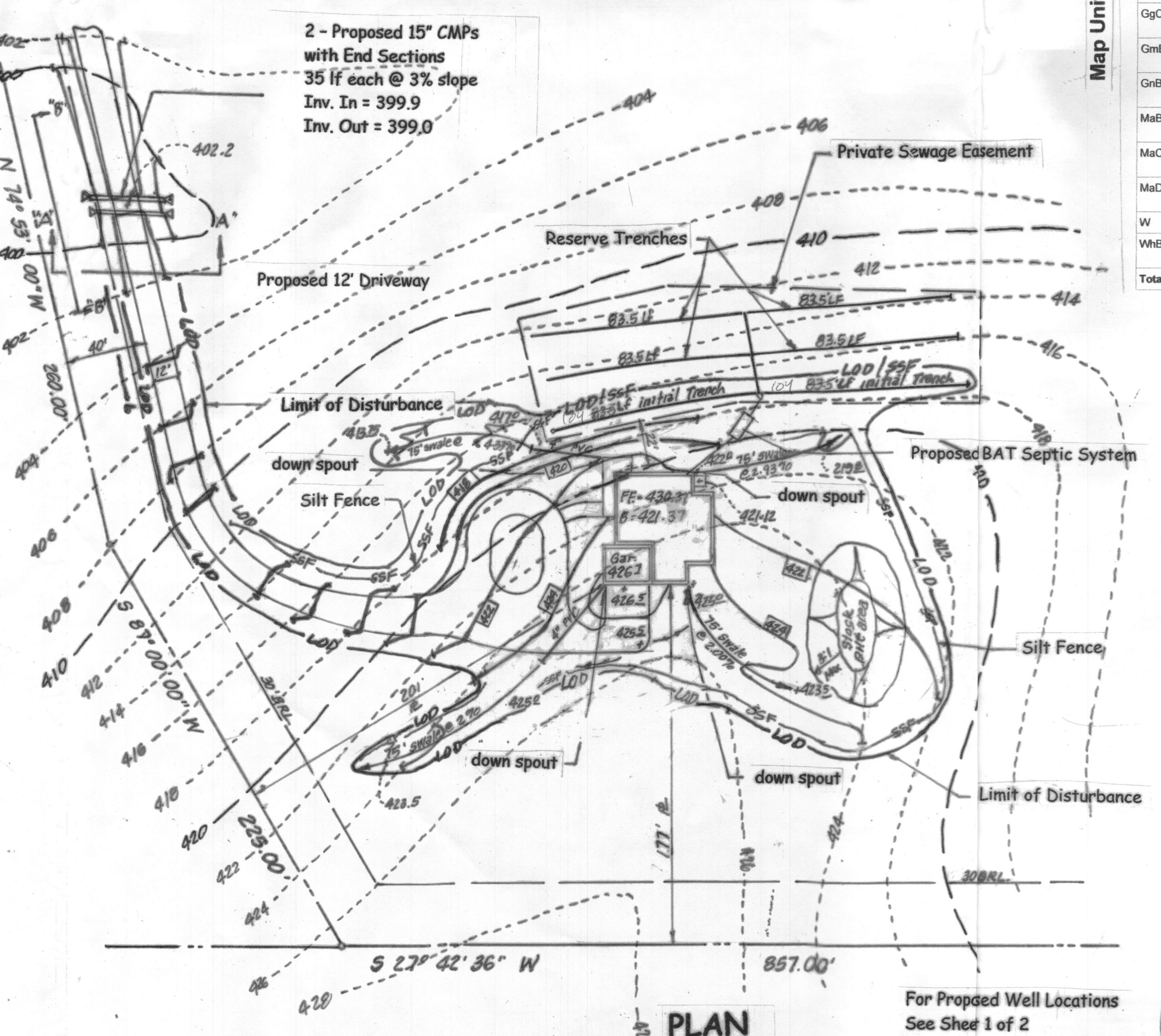
1. Pre construction Meeting.....Day 1
2. Obtain Necessary permits.....Day 2 - 3
3. Notify "MISS UTILITY" at least 48 hours prior to beginning any construction 1-800-257-7777.....Day 2 - 4
4. Install sediment control devices.....Day 5 - 36
5. Construct driveway up to the proposed dwelling for access and culvert pipes.....Day 37 - 97
6. Vegetatively stabilize all areas disturbed by driveway construction.....Day 98 - 119
7. Construct dwelling and finalize driveway area.....Day 120 - 365
8. Final grade and construct SWM facilities, grass swales, vegetatively stabilize all areas disturbed by construction. Remove all sediment control devices when written permission has been granted by the inspector.....Day 365 - 386

Total Disturbed Area.....Phase I = 1.33 ac.
Phase II = 0.76 ac.
Total = 2.07 ac.



Pump: Blaster EPO 511 1/2 HP
Total Dynamic Head = 8.11 feet for 2" pipe.
38 gpm at 50 gallons 1 min. 18 seconds draw down time.

Stormwater Management by rooftop disconnect down spouts/roof leaders drain to grass swales 5% or less.



PLAN Scale 1"=50'

For Proposed Well Locations See Sheet 1 of 2

Map Unit Legend

B-4.8 STANDARDS AND SPECIFICATIONS

FOR STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

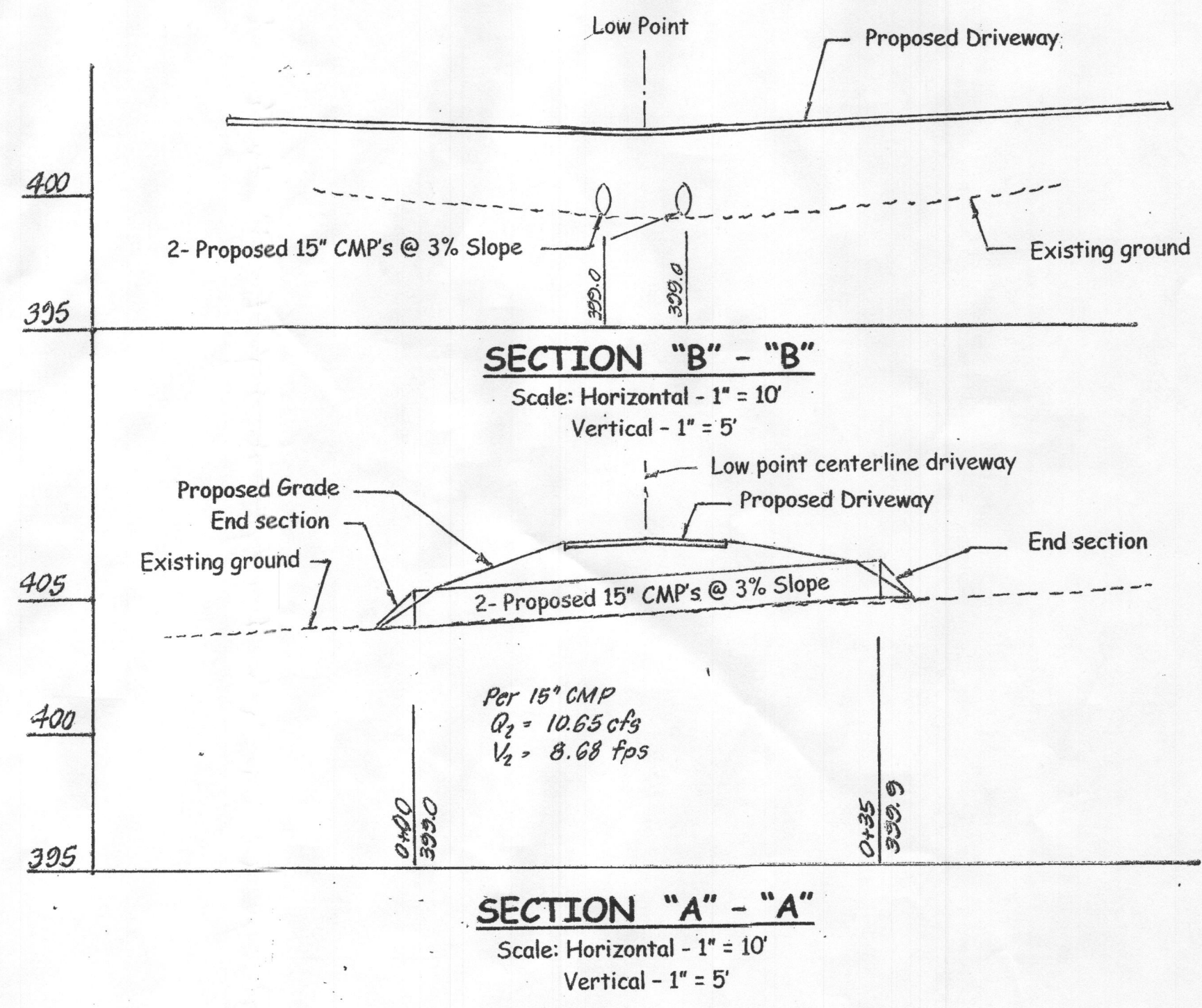
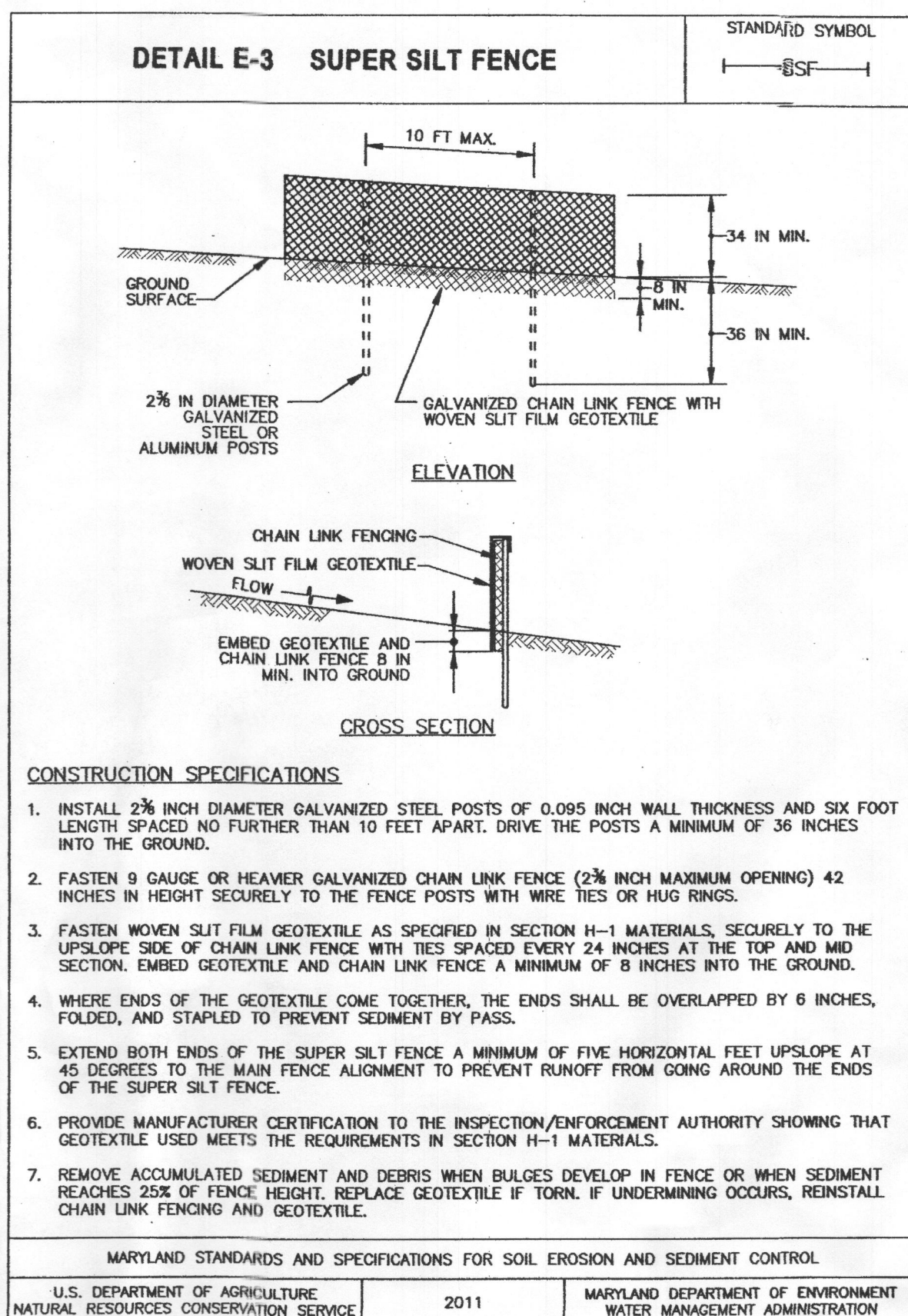
- The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- Runoff from the stockpile area must drain to a suitable sediment control practice.
- Access to the stockpile area from the upgrade side.
- Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
- Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
- Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

**HOWARD SOIL CONSERVATION DISTRICT
STANDARD SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Public Works, Construction Inspection Division (CID) prior to the start of any construction (410-313-1855)
 - 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.
 - Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 3 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 7 days as to all other disturbed or graded areas on the project site.
 - All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
 - 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.
- | | | |
|------------------------------------|-------|----------|
| Site Analysis: | | |
| Total Area of Site | 22.78 | Acres |
| Area Disturbed | 2.07 | Acres |
| Area to be roofed or paved | 0.45 | Acres |
| Area to be vegetatively stabilized | 1.82 | Acres |
| Total Cut | 1500± | Cu. Yds. |
| Total Fill | 1500± | Cu. Yds. |
| Offsite waste/borrow location | N/A | |
- Any sediment control practice that is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
 - 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 shall be back-filled and stabilized by the end of each workday, whichever is shorter.
 - Any changes or revisions to the sequence of construction must be reviewed and approved by the plan approval authority prior to proceeding with construction.
 - A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority. Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.



SURVEYS, INC.
SURVEYORS * ENGINEERS * LAND PLANNERS
PERMIT SERVICES
350 MAIN STREET
LAUREL, MARYLAND, 20707
PHONE 301-716-0581 FAX 301-716-0642

DATE	REVISION

Site Development, Grading and Erosion & Sediment Control Plan
E Lime Kiln Road - Brookwood Farm Road
Preservation Parcel "A"
BROOKWOOD FARMS
5th Election District
Howard County, Maryland

SCALE As Shown	DESIGNER RJB	CHECKED BY RJB
DATE July 2015	DRAFTER EJM	FIELD BOOK
JOB NUMBER 15-20	SHEET NUMBER 3 of 3	FILE NUMBER L-399