



# Building Permit Application

Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: \_\_\_\_\_

Permit No.: 19004387

Building Address: 444 Woodward Blvd  
City: Silver Spring State: MD Zip Code: 20910  
Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_  
Subdivision: \_\_\_\_\_  
Lot: #3 Tax Map: 9 Parcel: #14

Existing Use: 3000 sq ft  
Proposed Use: Single Family Detached  
Estimated Construction Cost: \$ 200,000

Description of Work: Complete renovation of existing 3000 sq ft single family detached home including kitchen, bathroom, and living area.

Occupant/Tenant Name: N/A  
Was tenant space previously occupied?  Yes  No  
Contact Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Property Owner's Name: Lee (Lee) - Fawn Stumpf  
Address: 3634 Main Street  
City: Silver Spring State: MD Zip Code: 20910  
Phone: 301-745-1166 Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

**Applicant's Name & Mailing Address, (if other than stated herein)**  
Applicant's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Contractor Company: Lee Stumpf  
Contact Person: Lee Stumpf  
Address: 3634 Main Street  
City: Silver Spring State: MD Zip Code: 20910  
License No.: \_\_\_\_\_  
Phone: 301-745-1166 Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Engineer/Architect Company: \_\_\_\_\_  
Responsible Design Prof.: Sam Stumpf  
Address: 3634 Main Street  
City: Silver Spring State: MD Zip Code: 20910  
Phone: 301-745-1166 Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Commercial Building Characteristics	Residential Building Characteristics	
Height: <u>28 ft</u>	<input checked="" type="checkbox"/> SF Dwelling	<input type="checkbox"/> SF Townhouse
No. of stories: <u>1</u>	<b>Depth</b>	<b>Width</b>
Gross area, sq. ft./floor: <u>3000</u>	1st floor: <u>365'</u>	<u>85'</u>
Area of construction (sq. ft.): _____	2nd floor: _____	
Use group: _____	Basement:	
<b>Construction type:</b>	<input checked="" type="checkbox"/> Finished Basement	
<input type="checkbox"/> Reinforced Concrete	<input checked="" type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space	
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input checked="" type="checkbox"/> Wood Frame	No. of Bedrooms: <u>3</u>	
<input type="checkbox"/> State Certified Modular	<b>Multi-family Dwelling</b>	
	No. of efficiency units: _____	
	No. of 1 BR units: _____	
	No. of 2 BR units: _____	
	No. of 3 BR units: _____	
	Other Structure: _____	
	Dimensions: _____	
<b>Roadside Tree Project Permit</b>	Footings: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof: _____	
<b>Roadside Tree Project Permit #</b>	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input checked="" type="checkbox"/> Electric	<input type="checkbox"/> Oil
<input type="checkbox"/> Natural Gas	<input checked="" type="checkbox"/> Propane Gas
<input type="checkbox"/> Other:	
Sprinkler System:	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Title/Company: \_\_\_\_\_

Print Name: \_\_\_\_\_  
Date: 6/28/2019

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
\*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
-FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA ( Zoning )		
PSZA ( Engineering )		
Health	<u>6/25/20</u>	<u>H. Oswald</u>

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Thursday, May 14, 2020 12:46 PM  
**To:** Lee Stumpf  
**Subject:** Re: 1411 Underwood Rd Permit #-B19004387

Hi Lee, as long as the floor plan matches the site plan and osds plan layout, Im fine with it. Please mail the o and m agreement to Howard County Health Department. 8930 Stanford Boulevard, Columbia, MD 21045

Sent from my Verizon, Samsung Galaxy smartphone

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**From:** Lee Stumpf <forrentalinfo@yahoo.com>  
**Sent:** Thursday, May 14, 2020 11:50:48 AM  
**To:** Oswald, Hank <hoswald@howardcountymd.gov>  
**Subject:** Fw: 1411 Underwood Rd Permit #-B19004387

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

----- Forwarded Message -----

**From:** Lee Stumpf <forrentalinfo@yahoo.com>  
**To:** "hoswald@howardcountymd.gov" <hoswald@howardcountymd.gov>; Lee Stumpf <forrentalinfo@yahoo.com>; lee S <lee@leelynns.com>  
**Sent:** Thursday, May 14, 2020, 9:50:17 AM EDT  
**Subject:** 1411 Underwood Rd Permit #-B19004387

Good morning Hank,

Attached is a stamped and Sealed set of plans.

They are reversed as we have submitted the new reversed plans to DIPZ so for your purposes nothing has changed other than the reversal of the house to accommodate the excavation issue with the garage on the high side of the grade.

Does the Health Dept have a mail box or a PO box?

If you have a mail box I can drop the O & M form in the mail box today.

Thanks,  
Lee Stumpf  
443-745-1162

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Monday, January 27, 2020 11:34 AM  
**To:** 'FORRENTALINFO@YAHOO.COM'  
**Cc:** 'ron@vanmar.com'  
**Subject:** B19004387\_1411 Underwood Road  
**Attachments:** O&M agreement 4.23.18.pdf

Hello Mr. Stumpf:

I did not receive a copy of the floor plans for 1411 Underwood Road. Please submit an extra copy to the permit office at your earliest convenience. Also, please complete the O & M agreement (attached) and bring it to this office for signature. After it has been signed, you will need to file it with Howard County Land Records and provide the Health Department with a receipt.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)



### CONFIDENTIALITY NOTICE

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Wednesday May 13<sup>th</sup>, 2020

To Whom this concern,

My name is Luke (Lee) Stumpf

Building Permit #-B19004387

1411 Underwood Road

Sykesville, MD. 21784

We are reversing the house due to excavation reasons. The house will be built in the same place just reversed. A new set of drawing are provided.

Thanks,

Lee Stumpf

443-745-1162

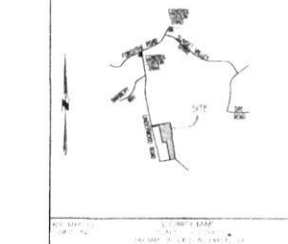
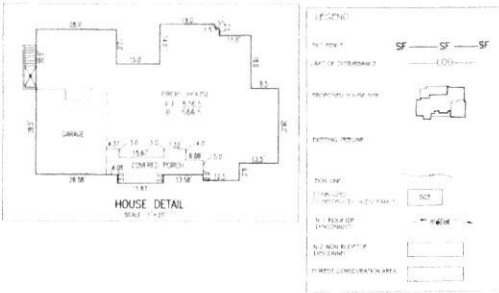
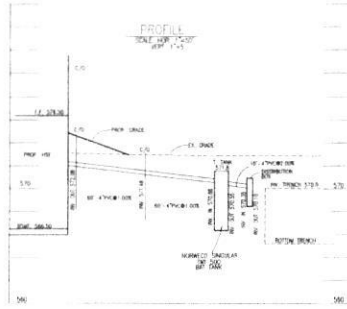
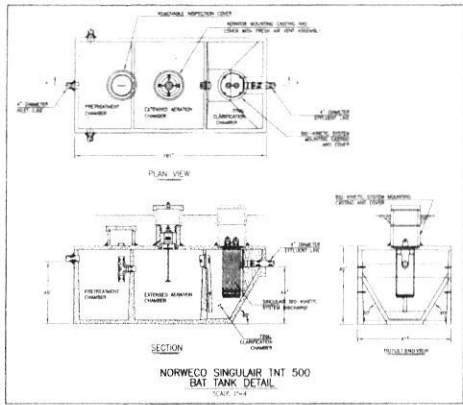
cc: P+Z  
Heather

RECEIVED

MAY 13 2020

LICENSES & PERMITS  
DIVISION



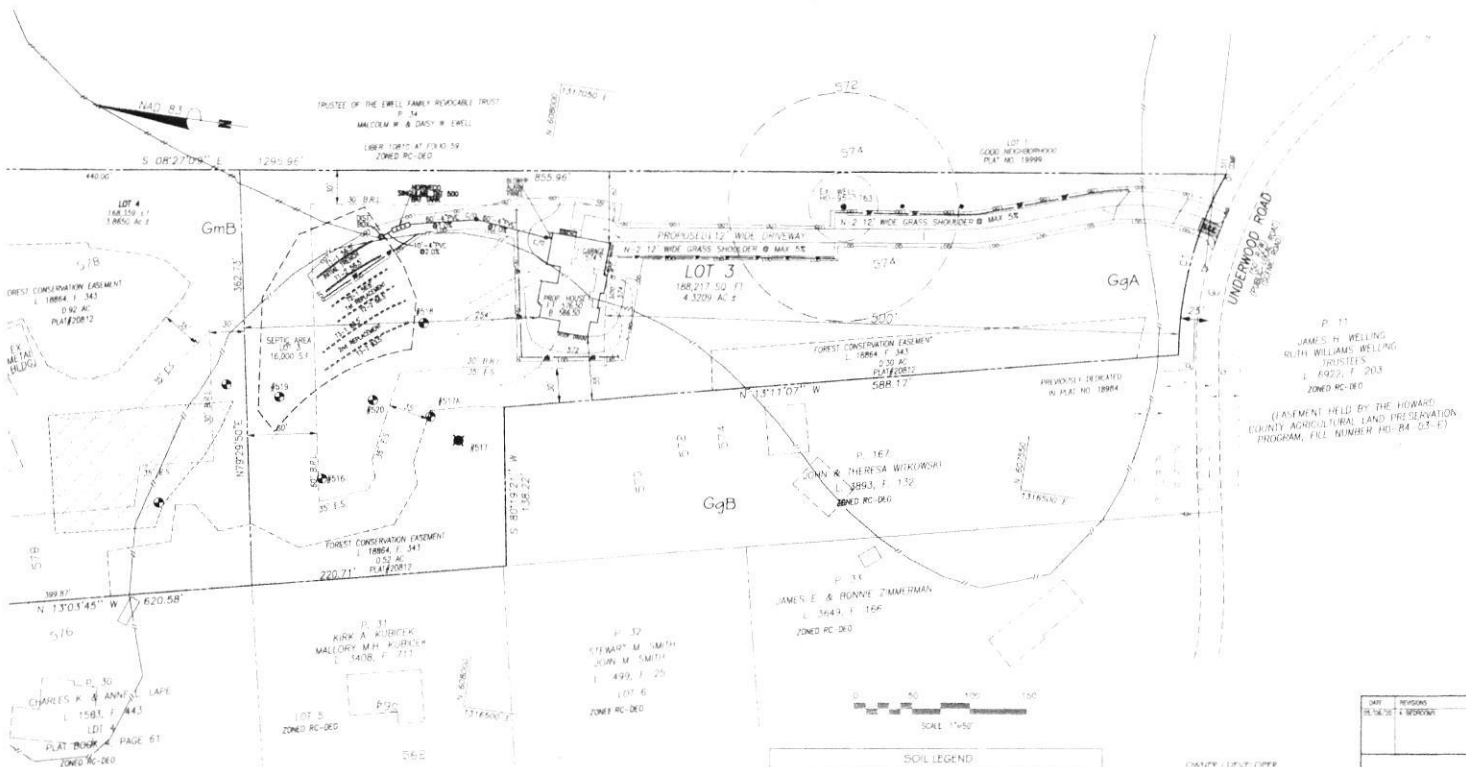


- GENERAL NOTES**
1. TOPOGRAPHY & PLANNING FEATURES SHOWN HEREIN TAKEN FROM COMPOSITE OF 2011 AND 2012 AERIAL PHOTOGRAPHS. COORDINATE LOCATIONS BY VANMATA ASSOCIATES, INC. (OWNER PLAT 15, 2, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).
  2. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMATA ASSOCIATES OF TAKEN FROM AVAILABLE RECORDS AND RECORDED PLANS.
  3. ZONING DISTRICT: RC-DEO
  4. LIMIT OF DISTURBANCE (LOD) = 20' (11' SETBACK)
  5. THERE ARE NO EXISTING FOREST CONSERVATION EASEMENTS ON THIS LOT.
  6. STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY R. H. HOWARD EQUITY AGRICULTURAL LAND PRESERVATION PROGRAM, FILE NUMBER HD-84 (25-17)

**SEPTIC SYSTEM TRENCH DESIGN**

INITIAL NUMBER OF TRENCHES = 4  
APPLICATION RATE = 0.8 GPD / SQ FT  
DESIGN FLOW: 150 GPD X 4 TRENCHES = 600 GPD  
800 GPD / 0.8 GPD/SQ FT = 1000 SQ FT  
750 SQ FT / 3.0 FT WIDE TRENCH = 250 LF TRENCH  
250 LF TRENCH X 0.50 REDUCTION CREDIT = 125 LF TRENCH  
TRENCH 11 - 1 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 11 - 2 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 11 - 3 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 11 - 4 EX. (20'-0" X 12'-0") IN TRENCH-561.0

THE REPLACEMENT  
APPLICATION RATE = 0.8 GPD / SQ FT  
DESIGN FLOW: 150 GPD X 4 TRENCHES = 600 GPD  
800 GPD / 0.8 GPD/SQ FT = 1000 SQ FT  
750 SQ FT / 3.0 FT WIDE TRENCH = 250 LF TRENCH  
250 LF TRENCH X 0.50 REDUCTION CREDIT = 125 LF TRENCH  
TRENCH 12 - 1 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 12 - 2 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 12 - 3 EX. (20'-0" X 12'-0") IN TRENCH-561.0  
TRENCH 12 - 4 EX. (20'-0" X 12'-0") IN TRENCH-561.0



- BAT SITE PLAN NOTES**
1. ANY CHANGE TO THE LOCATION OR DEPTH 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.
  2. MAXIMUM COVER OVER THE BAT PER MANUFACTURER SPECIFICATION IS 1.5 FEET.
  3. THE BATTERY MAY NOT BE LOCATED MORE THAN 150 FEET FROM THE TRENCH BASED ON MANUFACTURER SPECIFICATION.
  4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
  5. THE BAT SHALL BE OPERATED AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
  6. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLED IN THE BAT SYSTEM SHALL REVIEW THE INSTALLATION AND THE HOWARD COUNTY HEALTH DEPARTMENT IN A WRITTEN ACCEPTANCE TO THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE BAT INSTALLATION.
  7. LITERAL RECORD FROM THE BAT INSTALLATION MUST BE PROVIDED BY A SERVICE PROVIDER.
  8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES AND RECORDED IN LAND RECORDS TO HOWARD COUNTY.
  9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP OF THE SYSTEM FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF INSTALLATION.

**SOIL LEGEND**

SOIL SYMBOL	SYMBOL	PERCENT	GROUP	PERCENT	PERCENT
GmB	CLAYEY SILT	0.1	CLAY	0.1	0.1
GgA	CLAYEY SAND	0.1	CLAY	0.1	0.1
GgB	CLAYEY SAND	0.1	CLAY	0.1	0.1

**OWNER / DEVELOPER**  
JAMES H. WELLS  
1514 WOODRIDGE  
HOWARD COUNTY, MD 21041  
707.747.1622

**PROFESSIONAL SEALS**  
I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18111, Expiration Date: 3-18-21

**ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**  
**LOT 3**

**EWELL PROPERTY**  
PLAT # 2012-11  
LOT 3  
1514 WOODRIDGE ROAD  
HOWARD COUNTY, MARYLAND  
21041-1622

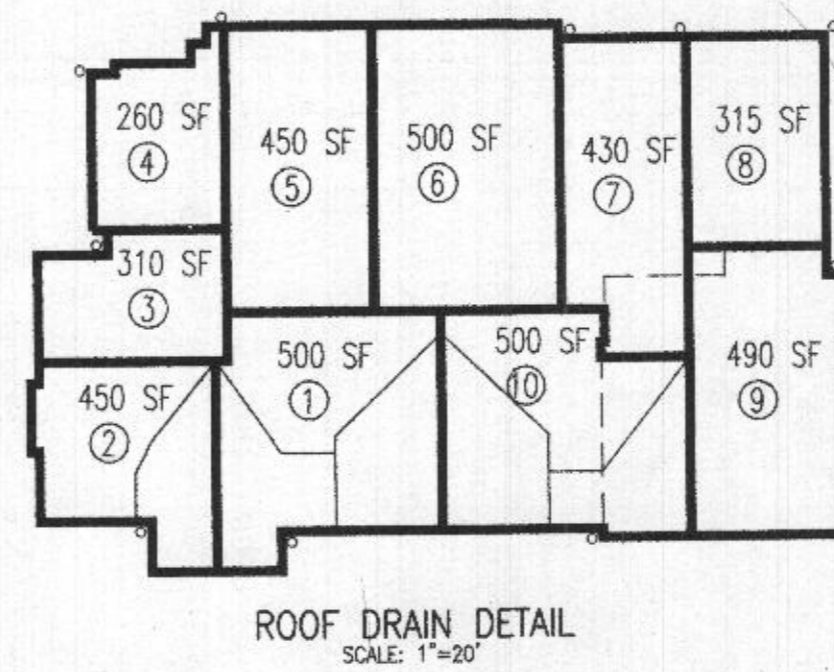
**DATE** 10/20/2020  
**REVISION** 1: WORKSHEET

**SCALE** AS SHOWN  
**SHEET** 1 OF 1

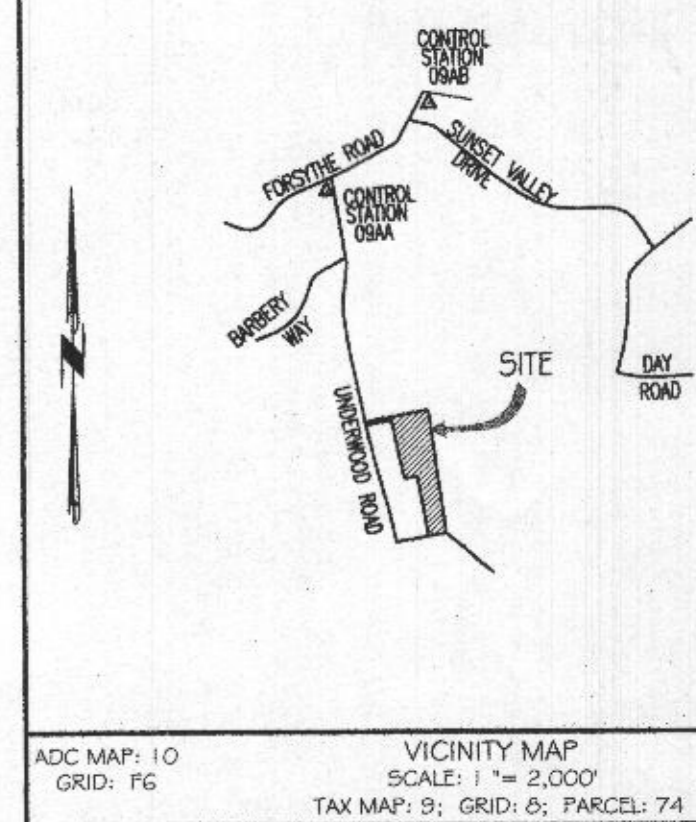
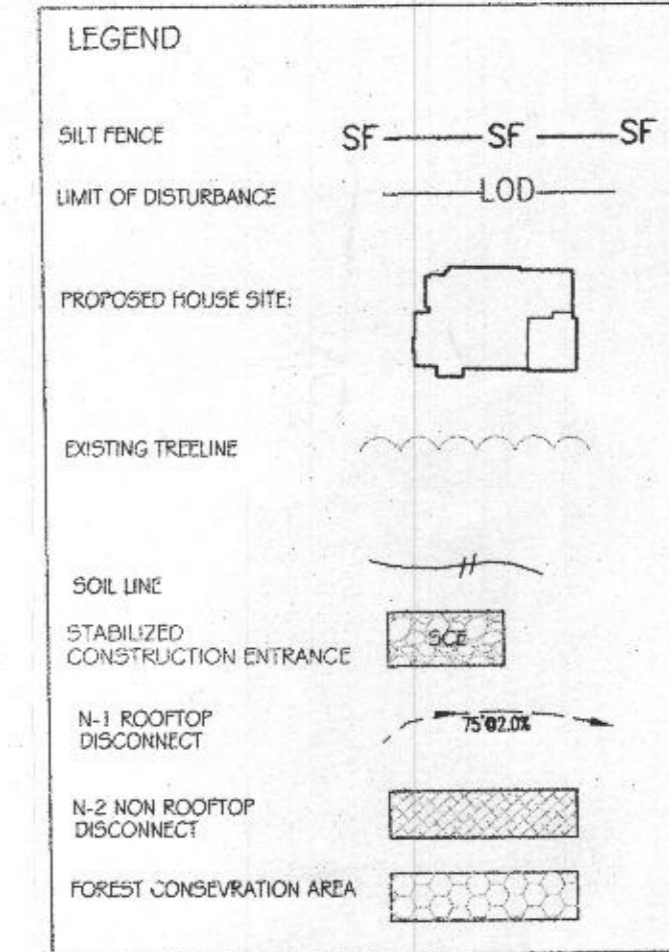
**VANMATA ASSOCIATES, INC.**  
Engineers Surveyors Planners  
1100 South Main Street, Suite 400, Baltimore, MD 21202  
(410) 828-2880 (410) 831-8779 (410) 449-2755  
www.vanmata.com Fax (410) 831-8661 © Copyright James Wells, Inc.



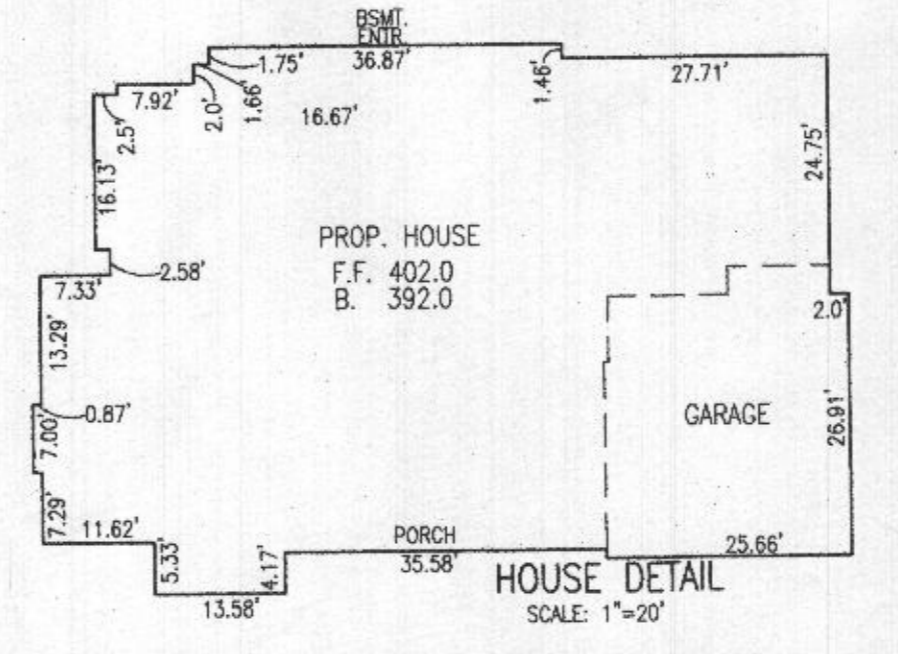
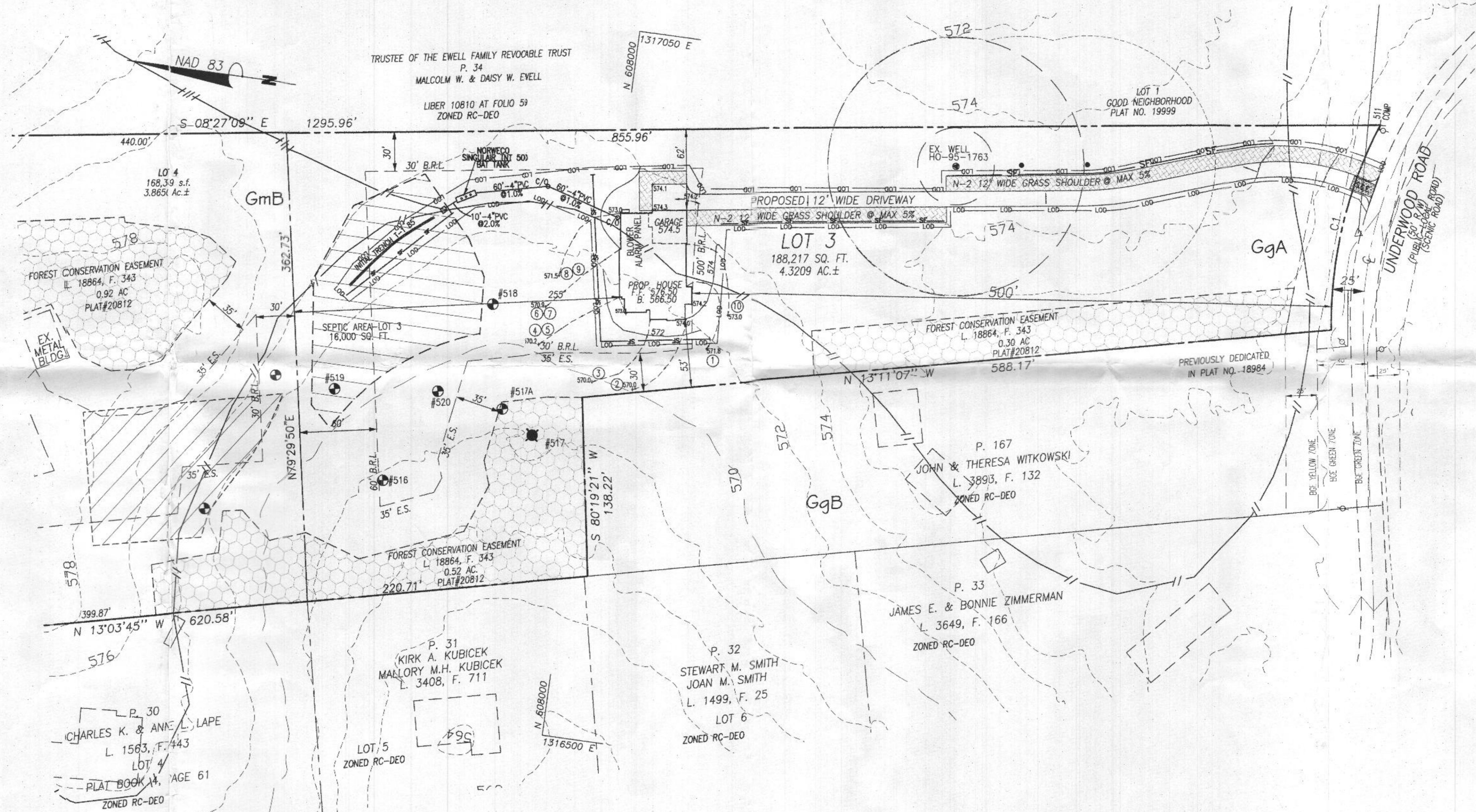
SWM TREATMENT SUMMARY					
PRACTICE	DRAINAGE AREA	IMPERVIOUS AREA TREATED	METHODOLOGY	VOLUME (ESD) REQUIRED	VOLUME (ESD) PROVIDED
N-1 ROOFTOP DISCONNECTION	4,205 S.F.	4,205 S.F.	$ESD_v = P_o \cdot R_v \cdot A / 2$ where $P_o = 1.07$ , $R_v = 0.95$	333 c.f.	333 c.f.
N-2 ROOFTOP DISCONNECTION	7,080 S.F.	7,080 S.F.	$ESD_v = P_o \cdot R_v \cdot A / 2$ where $P_o = 1.07$ , $R_v = 0.95$	560 c.f.	560 c.f.
TOTAL ESD PROVIDED				893 c.f.	893 c.f.
ESD REQUIRED				893 c.f.	



N-1 ROOFTOP DISCONNECTION	
1	75' @ 5.0%
2	75' @ 5.0%
3	75' @ 5.0%
4	75' @ 4.6%
5	75' @ 4.6%
6	75' @ 2.0%
7	75' @ 2.0%
8	75' @ 2.0%
9	75' @ 2.0%
10	75' @ 2.0%



- GENERAL NOTES
- OWNER: STUMPF KAREN L. & LUKE I. JR.  
DEED REFERENCE: LIBER 18864 AT FOLIO 343  
DATE: SEPTEMBER 03, 2015  
GRANTOR: EWELL MALCOLM W. TRUSTEE
  - TAX MAP: 09 GRID: 06 PARCEL: 74
  - THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 2402700550, EFFECTIVE ON 11/06/2015.
  - TOPOGRAPHY & PLANIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
  - THE BASIS OF BEARINGS FOR THIS PLAN IS THE MARYLAND COORDINATE SYSTEM (NAD83/91) PER HOWARD COUNTY SURVEY CONTROL STATIONS:  
STA. 09A N. 610.47232 E. 1.315,967.506  
STA. 09B N. 612.6718 E. 1.316,692.06  
DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
  - THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
  - SOIL TYPE: GLENELG LOAM (GgA) AND (GgB), GLENVILLE SILT LOAM (GmB)  
WEB SOIL SURVEY MAP
  - THE SUBJECT PROPERTY IS ZONED RC-DEO AS PER 1006/2013 COMPREHENSIVE ZONING REGULATIONS.
  - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
  - THERE ARE NO HISTORIC SITES OR CORNERS ON THIS PROPERTY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE ANY APPROVALS OF SUBSEQUENT SUBDIVISION PLANS, SITE DEVELOPMENT PLANS OR RED-LINE REVISIONS TO APPROVED SDP PLANS, FOREST CONSERVATION PLANS AND GRADING OR BUILDING PERMITS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS THAT MAY ALTER THE SITE DESIGN, HOUSE OR STRUCTURE LOCATION, DRIVEWAY LOCATION, GRADING, TREE CLEARING AND/OR OTHER REQUIREMENTS AS THE DEVELOPMENT PLAN PROGRESSES THROUGH THE PLAN REVIEW AND/OR PERMIT APPLICATION PROCESS IN ACCORDANCE WITH THE SUBDIVISION, LAND DEVELOPMENT AND ZONING REGULATIONS AND THE FOREST CONSERVATION REQUIREMENTS.
  - NO ENVIRONMENTAL FEATURES EXIST WITHIN THE LOD.
  - THERE ARE NO STEEP SLOPES, FLOODPLAIN, WETLANDS OR OTHER ENVIRONMENTAL FEATURES LOCATED ON THE SITE AS DETERMINED DURING A FIELD INVESTIGATION PERFORMED BY VANMAR ASSOCIATES, INC. OCTOBER, 2016.
  - DISTURBED AREA = 29,171 S.F.
  - RELATED FILE: WP-09-116
  - STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY N-1 ROOFTOP DISCONNECTION, N-2 NON-ROOFTOP DISCONNECTION.



0 50 100 150  
SCALE: 1"=50'

OWNER / DEVELOPER:  
STUMPF, LEE  
3634 LIGON ROAD  
ELLICOTT CITY, MD. 21042  
443-745-1162

PROFESSIONAL CERTIFICATION  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18617, Expiration Date: 9-18-21.

SOIL LEGEND				
MAP SYMBOL	MAPPING UNIT	Kw	SLOPE	HYDROLOGIC SOIL GROUP
GmB	GLENVILLE	0.37	3-8%	C
GgA	GLENELG LOAM	0.24	0-3%	B
GgB	GLENELG LOAM	0.24	3-8%	B

- RECORDED PLAT# 20812 NOTES:
- PLAT NO# 19: Forest Conservation requirements per Section 16.1-200 of the Howard County Code and Forest Conservation Manual have been fulfilled by the placement of 1.44 acres of existing forest into reforestation easement, and the placement of 0.30 acres of forest planting into easement to satisfy required afforestation of 0.10 acres and reforestation of 0.20 acres. Surety in the amount of \$19,050.00 shall be posted with the developer's agreement under F-09-046, a plat which subdivides Lot 2. The deed of Forest Conservation easements recorded under F-09-046.
  - PLAT NO# 20: Landscaping for lots 3 and 4 is provided in accordance with a certified landscaping plan on file with the plat in accordance with Section 16.1-24 of the Howard County Code and the Landscape Manual, with 23 shade trees in the amount of \$6,900.00 of landscape surety for Lot 3 to be provided with the grading permit application.
  - PLAT NO# 24: Maryland Department of the Environment approved a variance to allow on-site sewage disposal areas for lots 3 and 4 to be up gradient of private water supplies.
  - PLAT NO# 26: The proposed septic system for lot 3 must have advanced pre-treatment due to the landscape position of the sewage area and neighboring wells. A supplemental site plan with all of the necessary details for installation of the system will be required prior to release of the septic system installation permit. Pretreatment systems must utilize best available technology and perform nitrogen pretreatment.

DEVELOPER'S CERTIFICATE:  
I/WE CERTIFY THAT CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD COUNTY SOIL CONSERVATION DISTRICT, AND/OR MDE.  
DATE: 12/30/19  
DEVELOPER: [Signature]

ENGINEER'S CERTIFICATE:  
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, AND THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
DATE: 12/30/2019  
RONALD E. THOMPSON, P.E.

DATE: \_\_\_\_\_ REVISIONS: \_\_\_\_\_

PLOT PLAN AND SEDIMENT CONTROL PLAN  
LOT 3  
EWELL PROPERTY  
PLAT#20812  
L. 18864 F. 343  
LOT 3  
1411 UNDERWOOD ROAD

TAX MAP: 9 ELECTION DISTRICT: NO. 3 SCALE: AS SHOWN  
GRID NO: 8 HOWARD COUNTY, MARYLAND DATE: DECEMBER, 2019  
PARCEL NO: P/Q 74 EX ZONING: RCDEO SHEET 1 OF 2

VANMAR ASSOCIATES, INC.  
Engineers Surveyors Planners  
210 South Main Street Mount Airy, Maryland 21771  
(301) 829-2890 (301) 831-5015 (410) 549-2751  
Fax (301) 831-5603 ©Copyright, Latest Date Shown

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
RONALD E. THOMPSON, P.E.  
12/30/2019

**B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS**

**Definition:**  
The process of preparing the soil 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:**

- Soil Preparation
  - Temporary Stabilization
    - Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of available 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 dropped 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.
    - Apply fertilizer and lime as prescribed on the plans.
    - Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
  - Permanent Stabilization
    - A soil test is required for any earth disturbance of 5 acres or more. The minimum soil test conditions required for permanent vegetative establishment are:
      - Soil pH between 6.0 and 7.0.
      - Soluble salts less than 500 parts per million (ppm).
      - 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 lowgrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
      - Soil contains 1.5 percent minimum organic matter by weight.
      - Soil contains sufficient pore space to permit adequate root penetration.
    - Application of amendments or topsoil is required if one or more of the above conditions are not met.
    - Graded areas must be maintained in a true and even grade as indicated on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. B-3 Land Grading.
    - Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Areas to be smoothed to a depth of 3 to 5 inches of soil by disking or other suitable means. Areas to be smoothed to a depth of 3 to 5 inches of soil by disking or other suitable means. Areas to be smoothed to a depth of 3 to 5 inches of soil by disking or other suitable means.

**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:**

- Seeding
  - All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of seeding such material on any project. Refer to Table B.4 regarding the quality of seed. Seed lots must be available upon request to the inspector to verify type and seed quantity.
  - Much seed may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding rate must be applied when the ground thaws.
  - Inoculants: The inoculant for treating legume seeds 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 use. Temperatures above 75 to 80 degrees Fahrenheit can ruin bacteria and make the inoculant less effective.
  - Soil or seed must be moist at the time of seeding. The soil has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
- Application
  - Dry Seeding: This includes use of conventional drop or broadcast spreaders.
  - Incorporate seed into the soil as prescribed on temporary Seeding Table B.1, Permanent Seeding Table B.1, or site-specific seeding summaries.
  - Drill or Outdrigger Seeding: Mechanized seeders that apply and cover seed with soil. Each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact. B.15
  - Hydroseeding: Hydroseeding is required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
  - Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
  - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
  - 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; P2 O5 (phosphorus), 200 pounds per acre; K2 O (potassium), 200 pounds per acre.
  - Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are to be applied by hydroseeding of any type. Do not use burnt or hydrated lime when hydroseeding.
  - Mix seed and fertilizer on site and seed immediately and without interruption.
  - When hydroseeding do not incorporate seed into the soil.

**B-4-4 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 grade 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.

**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:**

- Seed Mixtures
  - General Use
    - 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 condition 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.
  - Additional planning specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planning.
- For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
- For areas receiving low maintenance, apply urea 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.
- Turfgrass Mixtures
  - Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
  - Where turfgrass is desired, 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.
  - 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.
  - Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
  - Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass and Fine Fescue. Recommended 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.

**Howard Soil Conservation District**

**Standard Sediment Control Notes**

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected area marked clearly in the field. A minimum of 48 hour notice to CID must be given a the following stages:

a. Prior to the start of earth disturbance.

b. Before proceeding with any other earth disturbance or grading.

c. Prior to the start of another phase of construction or opening of another grading unit.

d. Prior to the removal or modification of sediment control practices.

Other grading or grading inspection approvals may not be authorized until this initial approval by inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination of sediment control practices.

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 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.

4. 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 TOPSOIL (Sec. B-4-2, permanent seeding (Sec. B-4-3), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-5)). Temporary stabilization (Sec. B-4-8) in excess of 20 ft. must be benched with stable material. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).

5. 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 CID.

6. Site Analysis

Total Area of Site: 4.32 Acres.

Area Disturbed: 0.87 Acres.

Area to be rolled or paved: 0.26 Acres.

Area to be vegetatively stabilized: 0.41 Acres.

Total Du. Yds.: Du. Yds.

Total Ft. Yds.: Ft. Yds.

Offsite waste/borrow area location: N/A.

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly, and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:

• Inspection date

• Inspection type (routine, pre-storm event, during rain event)

• Name and title of inspector

• Weather information (current conditions as well as time and amount of last recorded precipitation)

• Brief description of project's status (e.g. percent complete) and/or current activities

• Evidence of sediment discharge

• Identification of plan deficiencies

• Identification of sediment controls that require maintenance

• Identification of missing or improperly installed sediment controls

• Compliance status regarding the sequence of construction and stabilization requirements

• Photographs

• Monitoring/sampling

• Maintenance and/or corrective action performed

• Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).

9. Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each working day, whichever is shorter.

10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may be allowed by the CID per the last HSCD-approved field changes.

11. Disturbance shall not occur outside the L.O.D. 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 CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

12. Wash water from any equipment, vehicles, wheel pavement, and other sources must be treated in a sediment basin or other approved washout structure.

13. Top soil shall be stockpiled and preserved on-site for redistribution onto final grade.

14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbedded at 25' minimum interval, with lower ends curved uphill by 2' in elevation.

15. Stream channels must not be disturbed during the following restricted time periods (inclusive):

• Use I and II March 1 - June 15

• Use III and IV October 1 - April 30

• Use IV March 1 - May 31

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

**OWNER / DEVELOPER:**

STUMPF, LLC

3624 LUCON ROAD

ELLCOTT CITY, MD 21042

443-745-1162

**PROFESSIONAL CERTIFICATION**

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 3-18-21.

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