



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.: B18003791

Health

Building Address: 1386 Driver Rd
 City: Mariottsville State: MD Zip Code: 21104
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Subdivision: _____
 Lot: 7a Tax Map: _____ Parcel: 128

Existing Use: Vacant lot
 Proposed Use: SFD
 Estimated Construction Cost: \$ 450,000

Description of Work: Build Single Family dwelling 4 bedroom, 3.5 baths, Front Porch, Fireplace, 3 car garage

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

Property Owner's Name: Collin & Kim Ferguson
 Address: 731 S. Carley St.
 City: Baltimore State: MD Zip Code: 21224
 Phone: 443-742-1392 Fax: _____
 Email: cferga22@yahoo.com

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: Jeffrey Wood
 Address: 2200 Elliotts Chance Ct
 City: White Hall State: MD Zip Code: 21161
 Phone: 410-627-8321 Fax: 410-329-6228
 Email: Jeffwood@woodbros.net

Contractor Company: Wood Bros Inc
 Contact Person: Jeffrey M. Wood
 Address: 2200 Elliotts Chance Ct.
 City: White Hall State: MD Zip Code: 21161
 License No.: 1010
 Phone: 410-627-8321 Fax: 410-329-6228
 Email: Jeffwood@woodbros.net

Engineer/Architect Company: _____
 Responsible Design Prof.: _____
 Address: 11407 Barley Field Way
 City: Mariottsville State: MD Zip Code: 21104
 Phone: 410 Fax: _____
 Email: ron@rjarchitect.com

exp. 3/1/19

Commercial Building Characteristics	Residential Building Characteristics	
Height: _____	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories: <u>2</u>	Depth	Width
Gross area, sq. ft./floor:	1 st floor: <u>50</u>	<u>64</u>
	2 nd floor: <u>50</u>	<u>29</u>
Area of construction (sq. ft.):	Basement:	
	<input type="checkbox"/> Finished Basement	
Use group:	<input checked="" type="checkbox"/> Unfinished Basement	
	<input type="checkbox"/> Crawl Space	
Construction type:	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Reinforced Concrete	No. of Bedrooms: <u>4</u>	
<input type="checkbox"/> Structural Steel	Multi-family Dwelling	
<input type="checkbox"/> Masonry	No. of efficiency units:	
<input type="checkbox"/> Wood Frame	No. of 1 BR units:	
<input type="checkbox"/> State Certified Modular	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
<input type="checkbox"/> Roadside Tree Project Permit #	<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: _____	

RECEIVED
NOV 05 2018
LICENSES & PERMITS
DIVISION

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: Jeffrey M. Wood Print Name: Jeffrey M. Wood
 Email Address: Jeffwood@woodbros.net Date: 11/05/2018
 Title/Company: President Wood Bros Inc

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>11/14/18</u>	<u>H. Osward</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	\$ <u>150.00</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	<u>270374</u>

Distribution of Copies: White: Building Officials Green: PSZA, Zoning Yellow: PSZA, Engineering Pink: Health Gold: SHA

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 1/09/19
To: Health Dept - Hank Oswald
(Person's Name and Division)
From: Wood Bros Inc (410) 627-8321
(Your Name, Company Name and Telephone Number)
Subject: Project name Ferguson
Project site address 1386 Drives Rd
Permit # B18003791 SDP # _____
Other information pertinent to this project revised site plan to show well location

Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, duplicate sets shall be submitted.
- Letter Summarizing Changes
- Energy conservation calculations
- 3 Copies of Site Plan (be specific).
- Health Department Request DPZ/DED Request Applicant's Request
- Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
- Other revised to show accurate well location

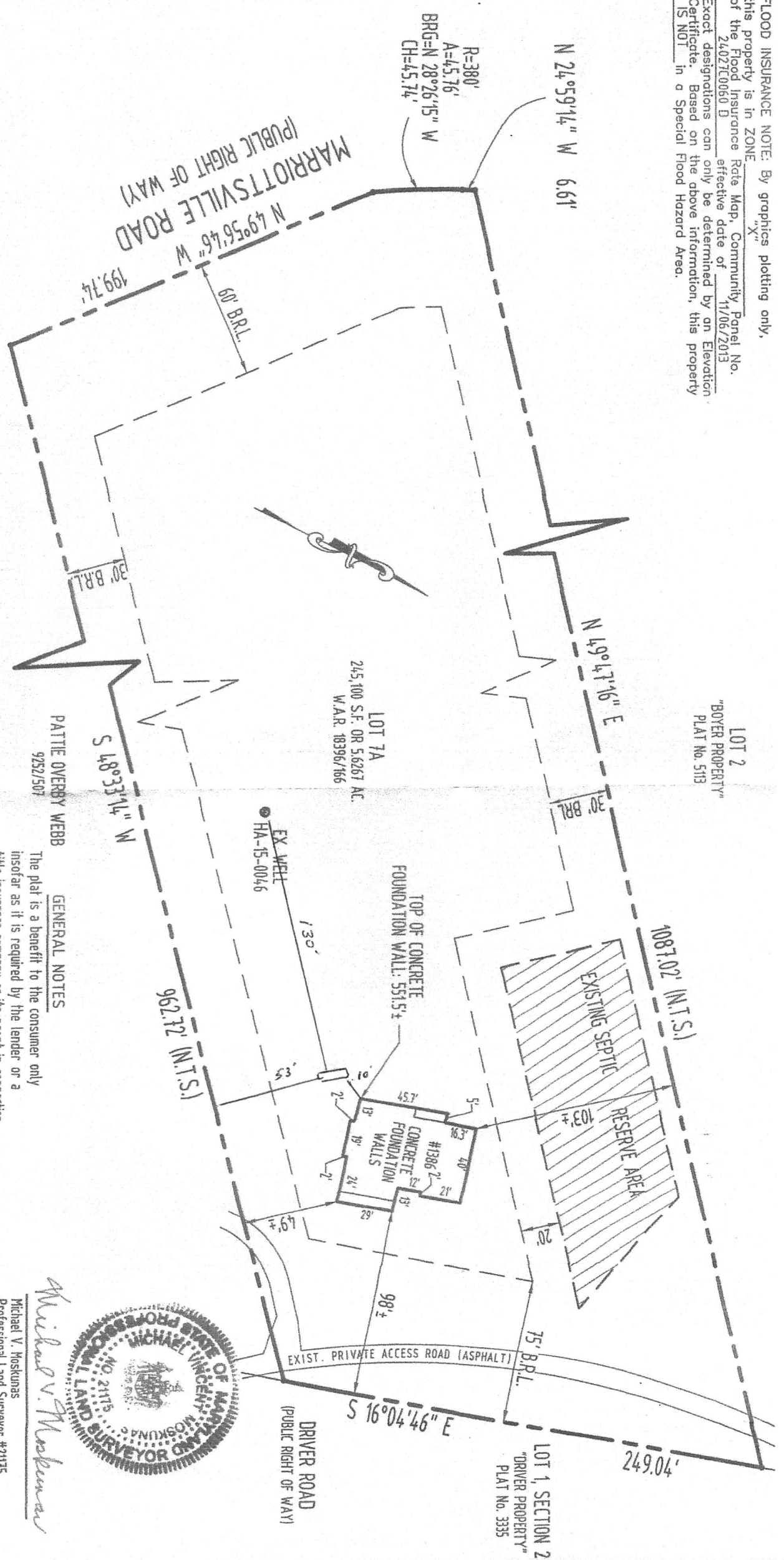
Contact Person Information: (Required)

Jeffrey Wood Telephone No: 410-627-8321
Please Print Name E-Mail Address: jeffwood@woodbros.net

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by [Signature] Revision

FLOOD INSURANCE NOTE: By graphics plotting only, this property is in ZONE "X" of the Flood Insurance Rate Map, Community Panel No. 24021C0060 D effective date of 11/06/2013. Exact designations can only be determined by an Elevation Certificate. Based on the above information, this property IS NOT in a Special Flood Hazard Area.

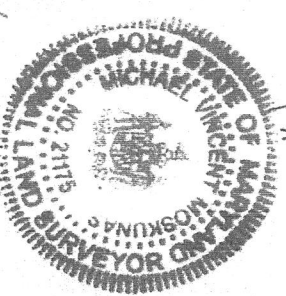


PATTIE OVERBY WEBB
9252/507

GENERAL NOTES

The plat is a benefit to the consumer only insofar as it is required by the lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. The plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

The plat does not provide for the accurate identification of property lines, but such identification may not be required for the transfer of title or securing financing or refinancing.



Michael V. Moskunas
Michael V. Moskunas
Professional Land Surveyor #21115
License Expires: 6/25/2019

FOUNDATION DRAWING

#1386 DRIVER ROAD

LOT 7A TAX ACCT. #298825
TAX MAP: 10 - GRID: 10 - PARCEL: 128
DEED REFERENCE: W.A.R. 18396/166
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



GRAPHICAL SCALE: 1" = 60'

Scale: 1" = 60' Date: 01/21/2019 JOB #10683



Health

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.: B19001359

Building Address: 1386 DRIVER ROAD
 City: MARRIOTTSTVILLE State: MD Zip Code: 21104
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Census Tract: _____ Subdivision: _____
 Section: _____ Area: _____ Lot: 7A
 Tax Map: _____ Parcel: _____ Grid: _____
 Zoning: _____ Map Coordinates: _____ Lot Size: 7 AC

Existing Use: SFD
 Proposed Use: SFD W/TANK
 Estimated Construction Cost: \$ 4000

Description of Work: UNDERGROUND
INSTALL A 1000 GAL PROPANE TANK

Occupant/Tenant Name: OWNER
 Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: COLLIN & KIM FERGUSON
 Address: 731 S CURLEY STREET
 City: BALTIMORE State: MD Zip Code: 21224
 Phone: _____ Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: APPLIED & APPROVED PERMITS
 Address: PO BOX 310
 City: PERRY HALL State: MD Zip Code: 21128
 Phone: 443-610-7514 Fax: _____
 Email: MICHELLE@APPLIEDANDAPPROVED.COM

Contractor Company: TEVIS OIL
 Contact Person: C NEVIN HAINES
 Address: 1618 N MAIN STREET
 City: HAMPSTEAD State: MD Zip Code: 21074
 License No.: 468
 Phone: 410-984-0399 Fax: _____
 Email: _____

Engineer/Architect Company: CONTRACTOR
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

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

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input checked="" 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 type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number:	
Building Shell Permit Number:	

RECEIVED
MAY 06 2019
LICENSES & PERMITS
DIVISION

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MICHELLE CLANCY
 Print Name
 Date: 5/6/19

MICHELLE@APPLIEDANDAPPROVED.COM
 Email Address
PERMITS
 Title/Company

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

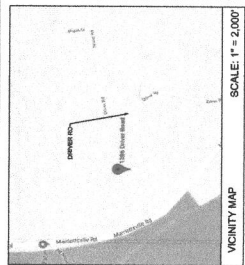
AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health		

DPZ SETBACK INFORMATION

Front: _____
 Rear: _____
 Side: _____
 Side St.: _____

All minimum setbacks met? Yes No
 Is Entrance Permit Required? Yes No
 Historic District? Yes No
 Lot Coverage for New Town Zone:
 SDP/Red-line approval date: _____

Filing Fee	\$ <u>110⁰⁰</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	# <u>6677</u>



PROPOSED FEATURE	SYMBOL
LIMIT OF DISTURBANCE	(Symbol)
PROPOSED BUILDING	(Symbol)
PROPOSED DRIVEWAY	(Symbol)
PROPOSED LOT ELEVATION	(Symbol)
PROPOSED SHAPE SPHERICAL	(Symbol)
PROPOSED SANITARY LOCATION	(Symbol)
PROPOSED 4" PVC PIPE	(Symbol)
PROPOSED 8" PVC PIPE	(Symbol)
PROPOSED BELT FENCE	(Symbol)
PVP WATER PUMP CONNECTION	(Symbol)
STANDARD CONSTRUCTED ENTRANCE	(Symbol)

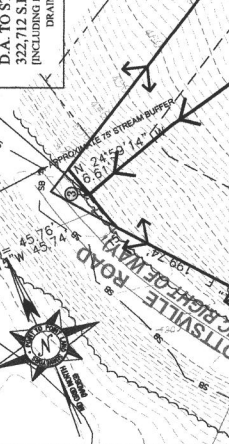
EXISTING FEATURE	SYMBOL
EXISTING DRIVEWAY	(Symbol)
EXISTING PROPERTY BOUNDARY	(Symbol)
EXISTING RESTRICTION LINE	(Symbol)
EXISTING CONTOUR (100')	(Symbol)
EXISTING CONTOUR (200')	(Symbol)
EXISTING FENCE	(Symbol)
EXISTING TREE LINE	(Symbol)
EXISTING WATER WALL	(Symbol)
EXISTING TREE TO BE PRESERVED	(Symbol)

PROPOSED SCHEDULE

FROM	TO	LENGTH	INVERT OUT	INVERT	GRADE	DEPTH
05+1	05+2	45	542.1	542.1	0.00	0.00
05+2	05+3	25	541.1	541.1	0.00	0.00
05+3	05+4	25	540.1	540.1	0.00	0.00
05+4	05+5	25	539.1	539.1	0.00	0.00
05+5	05+6	25	538.1	538.1	0.00	0.00
05+6	05+7	25	537.1	537.1	0.00	0.00
05+7	05+8	25	536.1	536.1	0.00	0.00
05+8	05+9	25	535.1	535.1	0.00	0.00
05+9	05+10	25	534.1	534.1	0.00	0.00
05+10	05+11	25	533.1	533.1	0.00	0.00
05+11	05+12	25	532.1	532.1	0.00	0.00
05+12	05+13	25	531.1	531.1	0.00	0.00
05+13	05+14	25	530.1	530.1	0.00	0.00
05+14	05+15	25	529.1	529.1	0.00	0.00
05+15	05+16	25	528.1	528.1	0.00	0.00
05+16	05+17	25	527.1	527.1	0.00	0.00
05+17	05+18	25	526.1	526.1	0.00	0.00
05+18	05+19	25	525.1	525.1	0.00	0.00
05+19	05+20	25	524.1	524.1	0.00	0.00
05+20	05+21	25	523.1	523.1	0.00	0.00
05+21	05+22	25	522.1	522.1	0.00	0.00
05+22	05+23	25	521.1	521.1	0.00	0.00
05+23	05+24	25	520.1	520.1	0.00	0.00
05+24	05+25	25	519.1	519.1	0.00	0.00
05+25	05+26	25	518.1	518.1	0.00	0.00
05+26	05+27	25	517.1	517.1	0.00	0.00
05+27	05+28	25	516.1	516.1	0.00	0.00
05+28	05+29	25	515.1	515.1	0.00	0.00
05+29	05+30	25	514.1	514.1	0.00	0.00
05+30	05+31	25	513.1	513.1	0.00	0.00
05+31	05+32	25	512.1	512.1	0.00	0.00
05+32	05+33	25	511.1	511.1	0.00	0.00
05+33	05+34	25	510.1	510.1	0.00	0.00
05+34	05+35	25	509.1	509.1	0.00	0.00
05+35	05+36	25	508.1	508.1	0.00	0.00
05+36	05+37	25	507.1	507.1	0.00	0.00
05+37	05+38	25	506.1	506.1	0.00	0.00
05+38	05+39	25	505.1	505.1	0.00	0.00
05+39	05+40	25	504.1	504.1	0.00	0.00
05+40	05+41	25	503.1	503.1	0.00	0.00
05+41	05+42	25	502.1	502.1	0.00	0.00
05+42	05+43	25	501.1	501.1	0.00	0.00
05+43	05+44	25	500.1	500.1	0.00	0.00
05+44	05+45	25	499.1	499.1	0.00	0.00
05+45	05+46	25	498.1	498.1	0.00	0.00
05+46	05+47	25	497.1	497.1	0.00	0.00
05+47	05+48	25	496.1	496.1	0.00	0.00
05+48	05+49	25	495.1	495.1	0.00	0.00
05+49	05+50	25	494.1	494.1	0.00	0.00
05+50	05+51	25	493.1	493.1	0.00	0.00
05+51	05+52	25	492.1	492.1	0.00	0.00
05+52	05+53	25	491.1	491.1	0.00	0.00
05+53	05+54	25	490.1	490.1	0.00	0.00
05+54	05+55	25	489.1	489.1	0.00	0.00
05+55	05+56	25	488.1	488.1	0.00	0.00
05+56	05+57	25	487.1	487.1	0.00	0.00
05+57	05+58	25	486.1	486.1	0.00	0.00
05+58	05+59	25	485.1	485.1	0.00	0.00
05+59	05+60	25	484.1	484.1	0.00	0.00
05+60	05+61	25	483.1	483.1	0.00	0.00
05+61	05+62	25	482.1	482.1	0.00	0.00
05+62	05+63	25	481.1	481.1	0.00	0.00
05+63	05+64	25	480.1	480.1	0.00	0.00
05+64	05+65	25	479.1	479.1	0.00	0.00
05+65	05+66	25	478.1	478.1	0.00	0.00
05+66	05+67	25	477.1	477.1	0.00	0.00
05+67	05+68	25	476.1	476.1	0.00	0.00
05+68	05+69	25	475.1	475.1	0.00	0.00
05+69	05+70	25	474.1	474.1	0.00	0.00
05+70	05+71	25	473.1	473.1	0.00	0.00
05+71	05+72	25	472.1	472.1	0.00	0.00
05+72	05+73	25	471.1	471.1	0.00	0.00
05+73	05+74	25	470.1	470.1	0.00	0.00
05+74	05+75	25	469.1	469.1	0.00	0.00
05+75	05+76	25	468.1	468.1	0.00	0.00
05+76	05+77	25	467.1	467.1	0.00	0.00
05+77	05+78	25	466.1	466.1	0.00	0.00
05+78	05+79	25	465.1	465.1	0.00	0.00
05+79	05+80	25	464.1	464.1	0.00	0.00
05+80	05+81	25	463.1	463.1	0.00	0.00
05+81	05+82	25	462.1	462.1	0.00	0.00
05+82	05+83	25	461.1	461.1	0.00	0.00
05+83	05+84	25	460.1	460.1	0.00	0.00
05+84	05+85	25	459.1	459.1	0.00	0.00
05+85	05+86	25	458.1	458.1	0.00	0.00
05+86	05+87	25	457.1	457.1	0.00	0.00
05+87	05+88	25	456.1	456.1	0.00	0.00
05+88	05+89	25	455.1	455.1	0.00	0.00
05+89	05+90	25	454.1	454.1	0.00	0.00
05+90	05+91	25	453.1	453.1	0.00	0.00
05+91	05+92	25	452.1	452.1	0.00	0.00
05+92	05+93	25	451.1	451.1	0.00	0.00
05+93	05+94	25	450.1	450.1	0.00	0.00
05+94	05+95	25	449.1	449.1	0.00	0.00
05+95	05+96	25	448.1	448.1	0.00	0.00
05+96	05+97	25	447.1	447.1	0.00	0.00
05+97	05+98	25	446.1	446.1	0.00	0.00
05+98	05+99	25	445.1	445.1	0.00	0.00
05+99	06+00	25	444.1	444.1	0.00	0.00

GENERAL NOTES

1. SUBJECT PROPERTY ZONED P-C (DMS) PER 06/25/01H COMPREHENSIVE ZONING PLAN.
2. COORDINATES REFERENCED TO THE VERTICAL DATUM OF THE NATIONAL CENTER OF GRAVITY.
3. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY CONDUCTED IN JULY, 2009 BY CLOVERLAND SURVEYS, INC.
4. PROPOSED USE: RESIDENTIAL (SINGLE FAMILY).
5. STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 6 OF THE COLUMBIANA COUNTY SUBDIVISION REGULATIONS, WHICH ARE BASED ON THE 2006 EDITION OF THE NATIONAL SANITATION FOUNDATION (NSF) STANDARD 1800. WE ARE PROVIDING THREE (3) 48" DIA. (48") AND ONE (1) 36" DIA. (36") MANHOLE ON THIS PROPERTY. ALL MANHOLES SHALL BE CONSTRUCTED TO A MINIMUM DEPTH OF 4 FEET BELOW SQUARE FEET THRESHOLD.
6. THE PROPOSED SEPTIC SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BOARD OF COUNTY SUPERVISOR REQUIREMENTS, SINCE THIS PROPERTY WAS CREATED IN 1969, AND HAS A CONEST STAND DRAINAGE PLAN AND DATED APRIL 21, 2011, AND PREPARED BY CLOVERLAND SURVEYS, INC. (C/S) UNDER PROJECT NO. 09-001.
7. NO ENVIRONMENTAL FEATURE EXIST WITHIN THE LOT.



Address: Driver Rd
Site Area: 245100.00 S.F.
Limit of Disturbance: 25400.00 S.F.

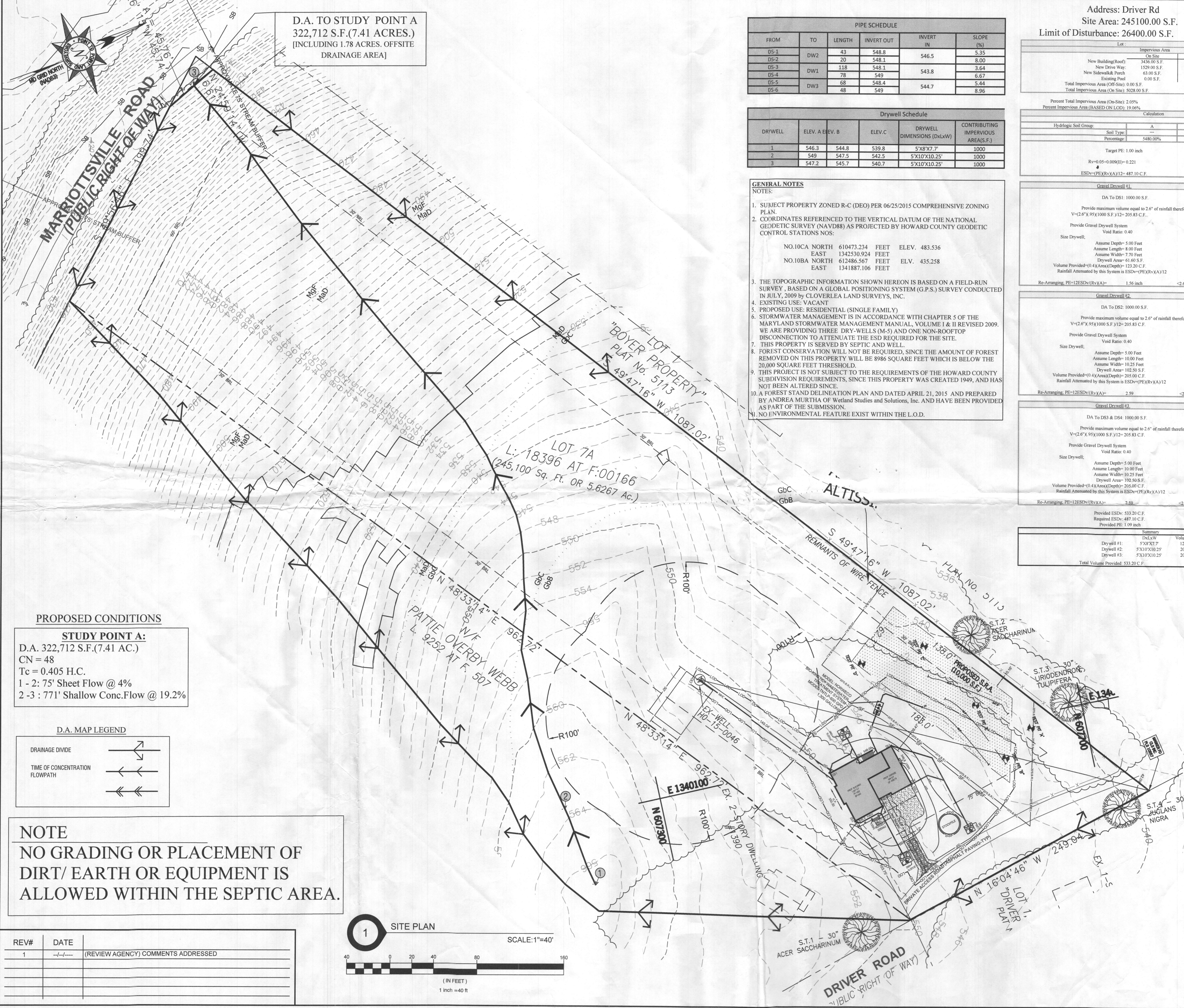
SCALE: 1" = 2,000'

PROPOSED FEATURE	SYMBOL
LIMIT OF DISTURBANCE	(Symbol)
PROPOSED BUILDING	(Symbol)
PROPOSED DRIVEWAY	(Symbol)
PROPOSED LOT ELEVATION	(Symbol)
PROPOSED SHAPE SPHERICAL	(Symbol)
PROPOSED SANITARY LOCATION	(Symbol)
PROPOSED 4" PVC PIPE	(Symbol)
PROPOSED 8" PVC PIPE	(Symbol)
PROPOSED BELT FENCE	(Symbol)
PVP WATER PUMP CONNECTION	(Symbol)
STANDARD CONSTRUCTED ENTRANCE	(Symbol)

EXISTING FEATURE	SYMBOL
EXISTING DRIVEWAY	(Symbol)
EXISTING PROPERTY BOUNDARY	(Symbol)
EXISTING RESTRICTION LINE	(Symbol)
EXISTING CONTOUR (100')	(Symbol)
EXISTING CONTOUR (200')	(Symbol)
EXISTING FENCE	(Symbol)
EXISTING TREE LINE	(Symbol)
EXISTING WATER WALL	(Symbol)
EXISTING TREE TO BE PRESERVED	(Symbol)

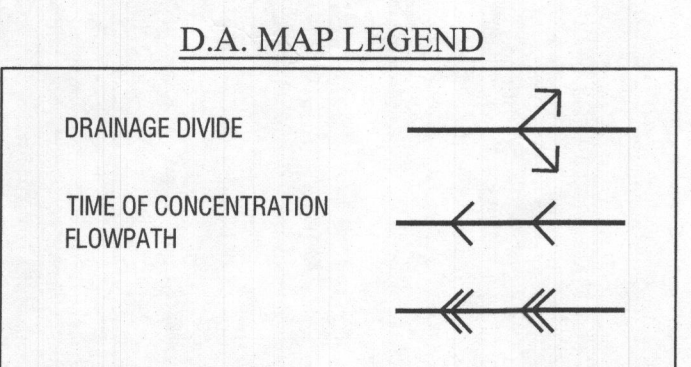
PROPOSED SCHEDULE

FROM	TO	LENGTH	INVERT OUT	INVERT	GRADE	DEPTH
05+1	05+2	45	542.1	542.1	0.00	0.00
05+2	05+3	25	541.1	541.1	0.00	0.00
05+3	05+4	25	540.1	540.1	0.00	0.00
05+4	05+5	25	539.1	539.1	0.00	0.00
05+5	05+6	25	538.1	538.1	0.00	0.00
05+6	05+7	25	537.1	537.1	0.00	0.00
05+7	05+8	25	536.1	536.1	0.00	0.00
05+8	05+9	25	535.1	535.1	0.00	0.00
05+9	05+10	25	534.1	534.1	0.00	0.00
05+10	05+11	25	533.1	533.1	0.00	0.00
05+11	05+12	25	532.1	532.1	0.00	0.00
05+12	05+13	25	531.1	531.1	0.00	0.00
05+13	05+14	25	530.1	530.1	0.00	0.00
05+14	05+15	25	529.1	529.1	0.00	0.00
05+15	05+16	25	528.1	528.1	0.00	0.00
05+16	05+17	25	527.1	527.1	0.00	0.00
05+17	05+18	25	526.1	526.1	0.00	0.00
05+18	05+19	25	525.1	525.1	0.00	0.00
05+19	05+20	25	524.1	524.1	0.00	0.00
05+20	05+21	25	523.1	523.1	0.00	0.00
05+21	05+22	25	522.1	522.1	0.00	0.00
05+22	05+23	25	521.1	521.1	0.00	0.00
05+23	05+24	25	520.1	520.1	0.00	0.00
05+24	05+25	25	519.1	519.1	0.00	0.00
05+25	05+26	25	518.1	518.1	0.00	0.00
05+26	05+27	25	517.1	517.1	0.00	0.00



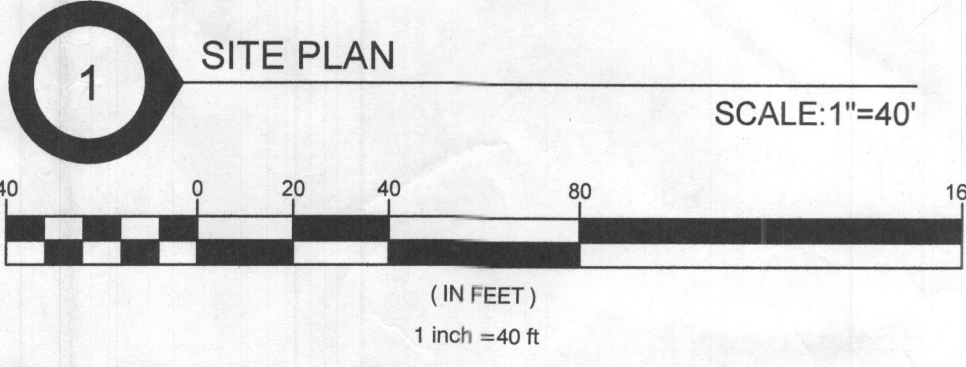
D.A. TO STUDY POINT A
322,712 S.F.(7.41 ACRES.)
[INCLUDING 1.78 ACRES. OFFSITE
DRAINAGE AREA]

PROPOSED CONDITIONS
STUDY POINT A:
D.A. 322,712 S.F.(7.41 AC.)
CN = 48
Tc = 0.405 H.C.
1 - 2: 75' Sheet Flow @ 4%
2 - 3: 771' Shallow Conc.Flow @ 19.2%



NOTE
NO GRADING OR PLACEMENT OF DIRT/ EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

REV#	DATE	(REVIEW AGENCY) COMMENTS ADDRESSED
1	---	(REVIEW AGENCY) COMMENTS ADDRESSED



FROM	TO	LENGTH	INVERT OUT	INVERT IN	SLOPE (%)
D5-1	DW2	43	548.8	546.5	5.35
D5-2	DW2	20	548.1	546.5	8.00
D5-3	DW1	118	548.1	543.8	3.64
D5-4	DW1	78	549	543.8	6.67
D5-5	DW3	68	548.4	544.7	5.44
D5-6	DW3	48	549	544.7	8.96

DRYWELL	ELEV. A	ELEV. B	ELEV. C	DRYWELL DIMENSIONS (DxLxW)	CONTRIBUTING AREA(S.F.)
1	546.3	544.8	539.8	5'X8'X7.7'	1000
2	549	547.5	542.5	5'X10'X10.25'	1000
3	547.2	545.7	540.7	5'X10'X10.25'	1000

GENERAL NOTES

- SUBJECT PROPERTY ZONED R-C (DEO) PER 06/25/2015 COMPREHENSIVE ZONING PLAN.
- COORDINATES REFERENCED TO THE VERTICAL DATUM OF THE NATIONAL GEODETIC SURVEY (NAVD88) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS:
NO.10CA NORTH 610473.234 FEET ELEV. 483.536
EAST 1342530.924 FEET
NO.10BA NORTH 612486.567 FEET ELV. 435.258
EAST 1341887.106 FEET
- THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD-RUN SURVEY, BASED ON A GLOBAL POSITIONING SYSTEM (G.P.S.) SURVEY CONDUCTED IN JULY, 2009 BY CLOVERLEA LAND SURVEYS, INC.
- EXISTING USE: VACANT
- PROPOSED USE: RESIDENTIAL (SINGLE FAMILY)
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 5 OF THE MARYLAND STORMWATER MANAGEMENT MANUAL, VOLUME I & II REVISED 2009. WE ARE PROVIDING THREE DRY-WELLS (M-5) AND ONE NON-ROOFTOP DISCONNECTION TO ATTENUATE THE ESD REQUIRED FOR THE SITE.
- THIS PROPERTY IS SERVED BY SEPTIC AND WELL.
- FOREST CONSERVATION WILL NOT BE REQUIRED, SINCE THE AMOUNT OF FOREST REMOVED ON THIS PROPERTY WILL BE 8986 SQUARE FEET WHICH IS BELOW THE 20,000 SQUARE FEET THRESHOLD.
- THIS PROJECT IS NOT SUBJECT TO THE REQUIREMENTS OF THE HOWARD COUNTY SUBDIVISION REQUIREMENTS, SINCE THIS PROPERTY WAS CREATED 1949, AND HAS NOT BEEN ALTERED SINCE.
- A FOREST STAND DELINEATION PLAN AND DATED APRIL 21, 2015 AND PREPARED BY ANDREA MURTHA OF Wetland Studies and Solutions, Inc. AND HAVE BEEN PROVIDED AS PART OF THE SUBMISSION.
- NO ENVIRONMENTAL FEATURE EXIST WITHIN THE L.O.D.

Address: Driver Rd
Site Area: 245100.00 S.F.
Limit of Disturbance: 26400.00 S.F.

Lot:	Impervious Area	On Site	Off-Site
New Building(Roof):	3436.00 S.F.		
New Drive Way:	1529.00 S.F.		0.00 S.F.
New Sidewalk & Trench:	63.00 S.F.		
Existing Pool:	0.00 S.F.		
Total Impervious Area (On-Site):	5028.00 S.F.		
Total Impervious Area (Off-Site):	0.00 S.F.		
Total Impervious Area (On Site):	5028.00 S.F.		

Hydrologic Soil Group:	Soil Type:	A	B	C	D
	Percentage:	54.80.00%	45.20%	0.00%	0.00%

Target PE: 1.00 inch
Based on entire lot

Rv=0.05+0.009(I)=0.221
Based on L.O.D.

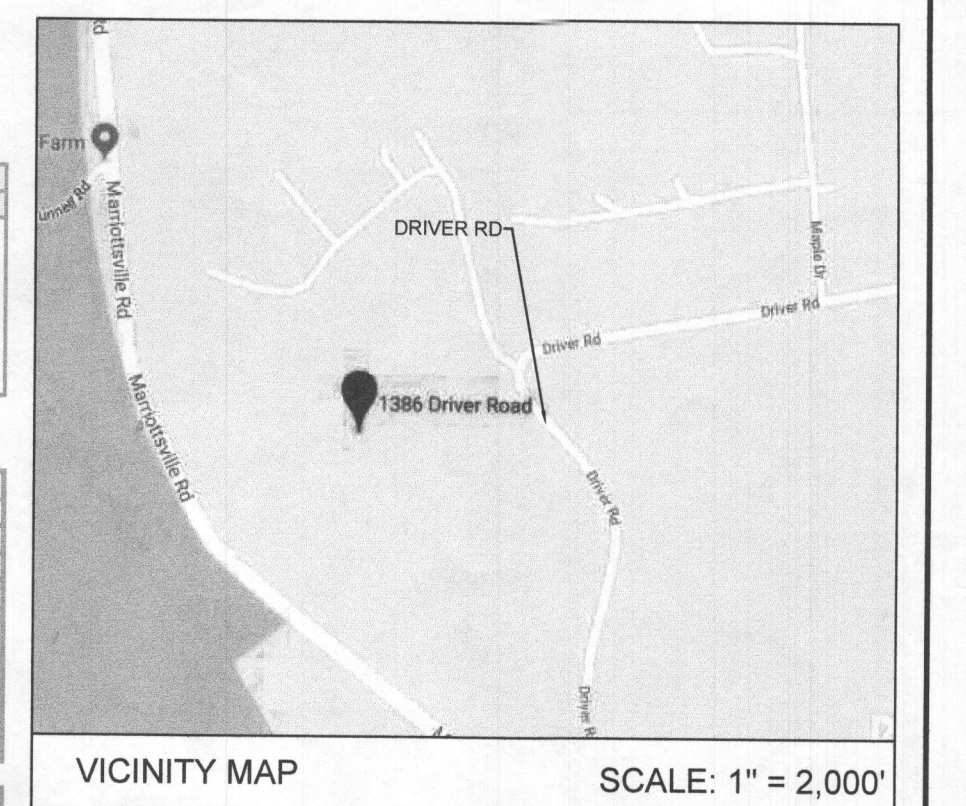
ESDv=(PE/Rv)(A)12= 487.10 C.F.
REQUIRED ESDv

Gravel Drywell #1
DA To DS1: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
V=(2.6"X.95X1000 S.F.)12= 205.83 C.F.
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 8.00 Feet
Assume Width= 7.70 Feet
Drywell Area= 61.69 S.F.
Volume Provided=(0.4XAreaXDepth)= 123.20 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)12
Re-Arranging: PE=12ESDv/(Rv)(A)= 1.56 inch <2.6 inch-OK

Gravel Drywell #2
DA To DS2: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
V=(2.6"X.95X1000 S.F.)12= 205.83 C.F.
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4XAreaXDepth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)12
Re-Arranging: PE=12ESDv/(Rv)(A)= 2.59 <2.6 inch-OK

Gravel Drywell #3
DA To DS3 & DS4: 1000.00 S.F.
Provide maximum volume equal to 2.6" of rainfall therefore volume allowed is:
V=(2.6"X.95X1000 S.F.)12= 205.83 C.F.
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4XAreaXDepth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)12
Re-Arranging: PE=12ESDv/(Rv)(A)= 2.59 <2.6 inch-OK

Summary	DxLxW	Volume provided
Drywell #1:	5'X8'X7.7'	123.20 C.F.
Drywell #2:	5'X10'X10.25'	205.00 C.F.
Drywell #3:	5'X10'X10.25'	205.00 C.F.
Total Volume Provided:		533.20 C.F.



PROPOSED FEATURE	SYMBOL
LIMIT OF DISTURBANCE	LOD
PROPOSED BUILDING	[Symbol]
PROPOSED PAVEMENT	[Symbol]
PROPOSED CONTOUR	100
PROPOSED SPOT ELEVATION	+250
PROPOSED GRAVEL DRYWELL	[Symbol]
PROPOSED DOWNSPOUT LOCATION	DS1
PROPOSED 6" PVC PIPE	6" PVC
PROPOSED 6" PERFORATED PIPE	6" PVC
PROPOSED SILT FENCE	SF
PROP. WATER HOUSE CONNECTION	WHC
STABILIZED CONSTRUCTION ENTRANCE	[Symbol]

EXISTING FEATURE	SYMBOL
SUBJECT SITE BOUNDARY	[Symbol]
ADJOINING PROPERTY BOUNDARY	[Symbol]
BUILDING RESTRICTION LINE	7.BRL
EXISTING CONTOURS (MINOR)	101
EXISTING CONTOURS (INDEX)	100
EXISTING FENCE	X
EXISTING TREE LINE	[Symbol]
EXISTING WATER WELL	W
EXISTING TREE TO BE REMOVED	[Symbol]

SITE GRADING PLAN

1386 DRIVER RD MARRIOTTVILLE LOT 7A

SITUATED AT:
1386 DRIVER ROAD,
HOWARD CO., MD

OWNER/ APPLICANT INFO:
COLLIN FERGUSON
KIMBERLY FERGUSON
731 S CURLEY ST
BALTIMORE, MD 21224
PHONE:(443) 742-1392
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

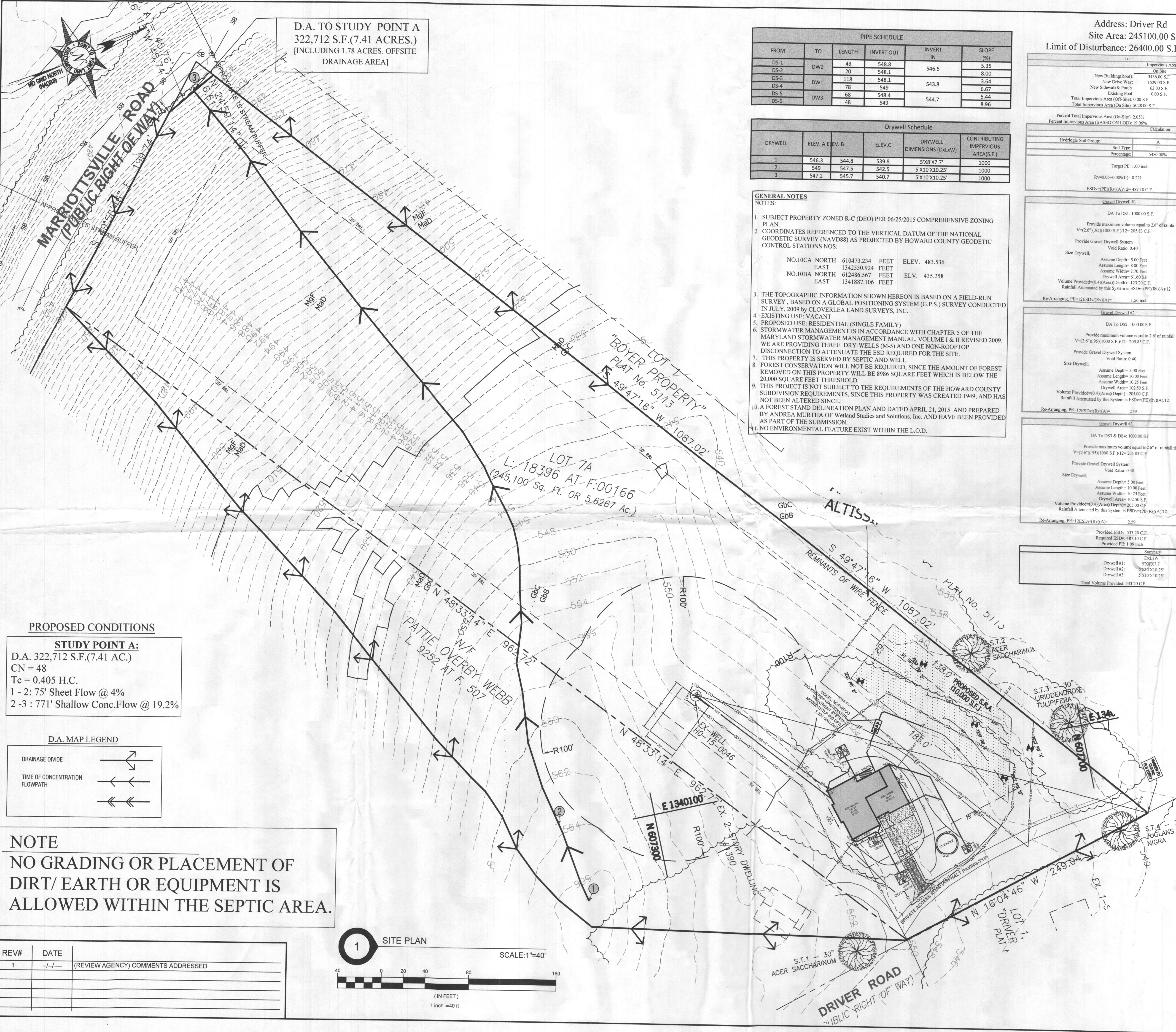
ZONE: R-C(DEO)
TAX ID: 03-298825
TAX MAP: 10
GRID 10 PARCEL 128
L: 18396 F:00166

SEAL
OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER
STATE OF MARYLAND
R. J. RAZTEC
PROFESSIONAL ENGINEER
LICENSE NO. 12742
EXPIRES: JUNE 15, 2020

RAZTEC ASSOCIATES, INC.
civil engineers & planners
341 West Patrick St.
Frederick, Maryland 21701
Tel (301) 775-4394
email:raztecengr@comcast.net

PROFESSIONAL'S REVIEW STATEMENT:
I 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 NUMBER: 22742 EXPIRES: JUNE 15, 2020

DRAWN BY: SE CHECKED BY: MR	DATE 1/8/2019	SCALE 1'=40'	SHEET NUMBER 1 of 1
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D.A. TO STUDY POINT A
322,712 S.F.(7.41 ACRES.)
[INCLUDING 1.78 ACRES. OFFSITE
DRAINAGE AREA]

PIPE SCHEDULE					
FROM	TO	LENGTH	INVERT OUT	INVERT IN	SLOPE (%)
DS-1	DW2	43	548.8	546.5	5.35
DS-2		20	548.1		8.00
DS-3	DW1	118	548.1	543.8	3.64
DS-4		78	549		6.67
DS-5	DW3	68	548.4	544.7	5.44
DS-6		48	549		8.96

Drywell Schedule					
DRYWELL	ELEV. A	ELEV. B	ELEV. C	DRYWELL DIMENSIONS (DxLxW)	CONTRIBUTING IMPERVIOUS AREA(S.F.)
1	546.3	544.8	539.8	5'X8'X7.7'	1000
2	549	547.5	542.5	5'X10'X10.25'	1000
3	547.2	545.7	540.7	5'X10'X10.25'	1000

GENERAL NOTES:

- SUBJECT PROPERTY ZONED R-C (DEO) PER 06/25/2015 COMPREHENSIVE ZONING PLAN.
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EAST 1342530.924 FEET
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- PROPOSED USE: RESIDENTIAL (SINGLE FAMILY)
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 5 OF THE MARYLAND STORMWATER MANAGEMENT MANUAL, VOLUME I & II REVISED 2009. WE ARE PROVIDING THREE DRY-WELLS (M-5) AND ONE NON-ROOFTOP DISCONNECTION TO ATTENUATE THE ESD REQUIRED FOR THE SITE.
- THIS PROPERTY IS SERVED BY SEPTIC AND WELL.
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- A FOREST STAND DELINEATION PLAN AND DATED APRIL 21, 2015 AND PREPARED BY ANDREA MURTHA OF Wetland Studies and Solutions, Inc. AND HAVE BEEN PROVIDED AS PART OF THE SUBMISSION.
- NO ENVIRONMENTAL FEATURE EXIST WITHIN THE L.O.D.

Address: Driver Rd
Site Area: 245100.00 S.F.
Limit of Disturbance: 26400.00 S.F.

Impervious Area		
On Site	Off-Site	
New Building/Floor	3400.00 S.F.	
New Drive Way	15200.00 S.F.	0.00 S.F.
New Sidewalk & Porch	63.00 S.F.	
Existing Pool	0.00 S.F.	
Total Impervious Area (Off-Site)	0.00 S.F.	
Total Impervious Area (On Site)	3020.00 S.F.	

Calculation					
Hydrologic Soil Group	Soil Type	A	B	C	D
	Percentage	5480.00%	45.20%	0.00%	0.00%

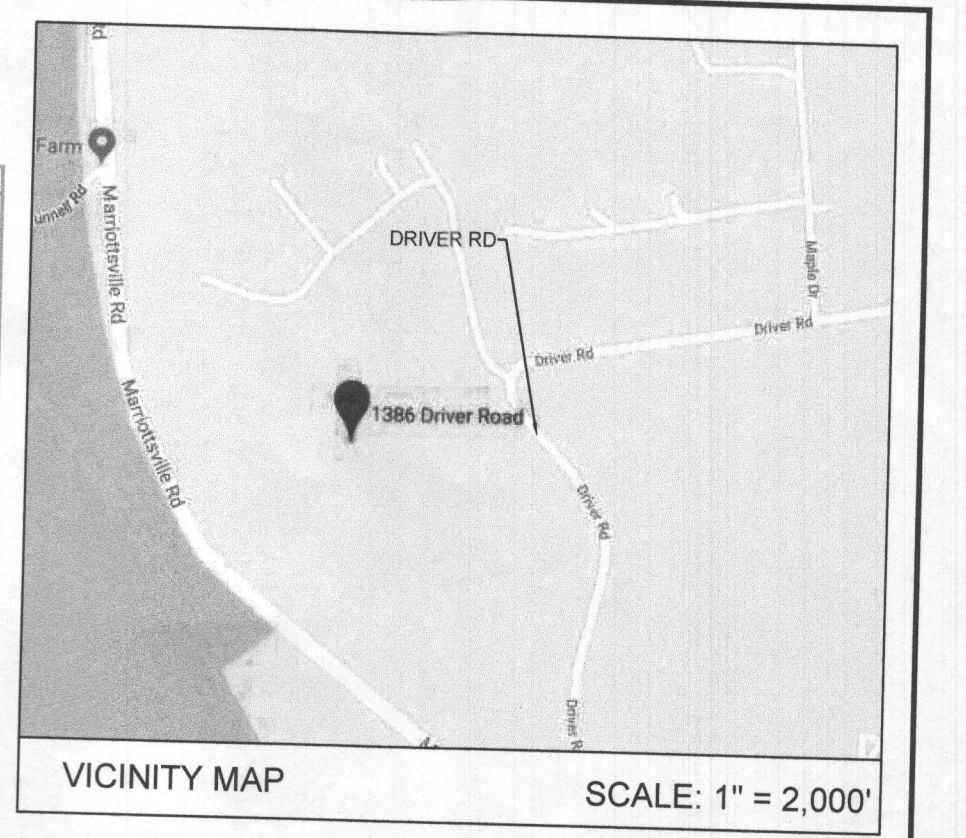
Target PE: 1.00 inch
Rv=0.05+0.009(I)-0.221
ESD=(PEX(Rv)A)12= 487.10 C.F.
REQUIRED ESDv

Gravel Drywell #1
DA To DS1: 1000.00 S.F.
Provide maximum volume equal to 2.6' of rainfall therefore volume allowed is:
 $V=(2.6' \times 959,1000 \text{ S.F.})12= 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 8.00 Feet
Assume Width= 7.70 Feet
Drywell Area= 61.60 S.F.
Volume Provided=(0.4)(Area)(Depth)= 123.20 C.F.
Rainfall Attenuated by this System is ESDv=(PEX(Rv)A)12
Re-Arranging: PE=12ESDv/(Rv)A= 1.56 inch <2.6 inch-OK

Gravel Drywell #2
DA To DS2: 1000.00 S.F.
Provide maximum volume equal to 2.6' of rainfall therefore volume allowed is:
 $V=(2.6' \times 959,1000 \text{ S.F.})12= 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PEX(Rv)A)12
Re-Arranging: PE=12ESDv/(Rv)A= 2.59 <2.6 inch-OK

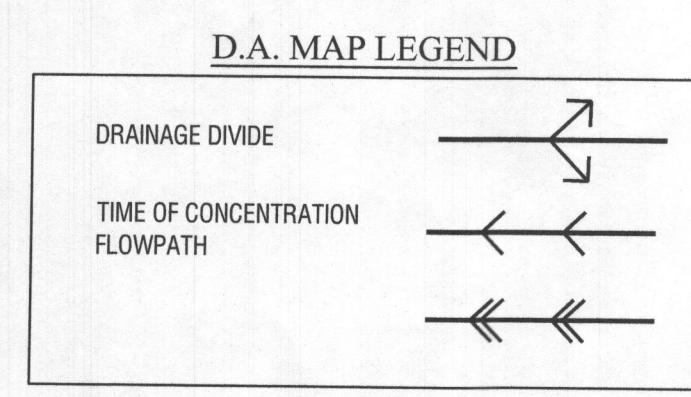
Gravel Drywell #3
DA To DS3 & DS4: 1000.00 S.F.
Provide maximum volume equal to 2.6' of rainfall therefore volume allowed is:
 $V=(2.6' \times 959,1000 \text{ S.F.})12= 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PEX(Rv)A)12
Re-Arranging: PE=12ESDv/(Rv)A= 2.59 <2.6 inch-OK

Summary		
Drywell #	Volume provided	Required ESDv
Drywell #1: 5'X8'X7.7'	123.20 C.F.	1.56 inch
Drywell #2: 5'X10'X10.25'	205.00 C.F.	2.59 inch
Drywell #3: 5'X10'X10.25'	205.00 C.F.	2.59 inch
Total Volume Provided:	533.20 C.F.	OK



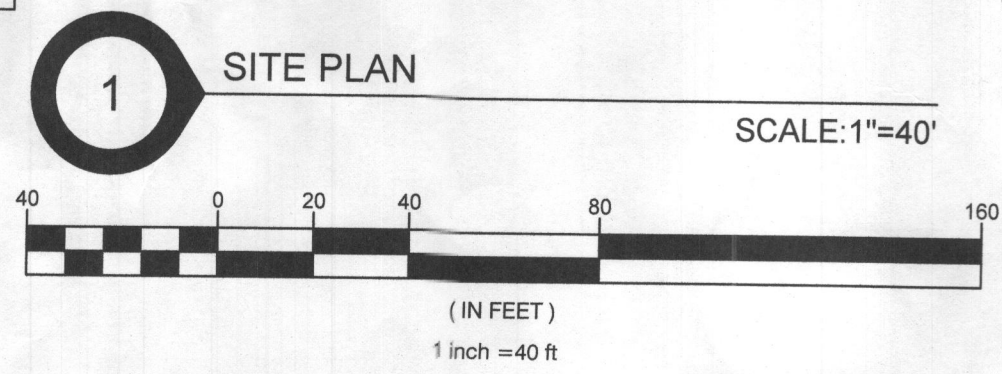
PROPOSED CONDITIONS

STUDY POINT A:
D.A. 322,712 S.F.(7.41 AC.)
CN = 48
Tc = 0.405 H.C.
1 - 2 : 75' Sheet Flow @ 4%
2 - 3 : 771' Shallow Conc.Flow @ 19.2%



NOTE
NO GRADING OR PLACEMENT OF DIRT/ EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

REV#	DATE	(REVIEW AGENCY) COMMENTS ADDRESSED
1		



PROPOSED FEATURE	SYMBOL
LIMIT OF DISTURBANCE	LOD
PROPOSED BUILDING	[Symbol]
PROPOSED PAVEMENT	[Symbol]
PROPOSED CONTOUR	100
PROPOSED SPOT ELEVATION	+250
PROPOSED GRAVEL DRYWELL	[Symbol]
PROPOSED DOWNSPOUT LOCATION	DS1
PROPOSED 6" PVC PIPE	6" PVC
PROPOSED 6" PERFORATED PIPE	6" PVC
PROPOSED SILT FENCE	SF
PROP. WATER HOUSE CONNECTION	WHC
STABILIZED CONSTRUCTION ENTRANCE	SCE

SITE PLAN LEGEND	
EXISTING FEATURE	SYMBOL
SUBJECT SITE BOUNDARY	[Symbol]
ADJOINING PROPERTY BOUNDARY	[Symbol]
BUILDING RESTRICTION LINE	7' BRL
EXISTING CONTOURS (MINOR)	101
EXISTING CONTOURS (INDEX)	100
EXISTING FENCE	X
EXISTING TREE LINE	[Symbol]
EXISTING WATER WELL	W
EXISTING TREE TO BE REMOVED	[Symbol]

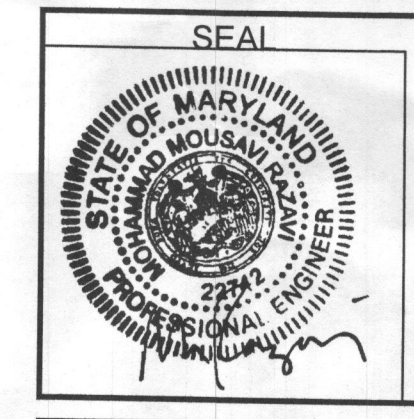
SITE GRADING PLAN

1386 DRIVER RD MARRIOTTVILLE LOT 7A

SITUATED AT:
1386 DRIVER ROAD,
HOWARD CO., MD

OWNER/ APPLICANT INFO
COLLYN FERGUSON
KIMBERLY FERGUSON
731 S CURLEY ST
BALTIMORE MD 21224
PHONE:(443) 742-1392

THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



RAZTEC ASSOCIATES, INC.
civil engineers & planners
341 West Patrick St
Frederick, Maryland 21701
Tel (301) 775-4394
email:raztecengr@comcast.net

PROFESSIONAL'S REVIEW STATEMENT:
I 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 NUMBER: 22742 EXPIRES: JUNE 15, 2020

DRAWN BY: SE
CHECKED BY: MR

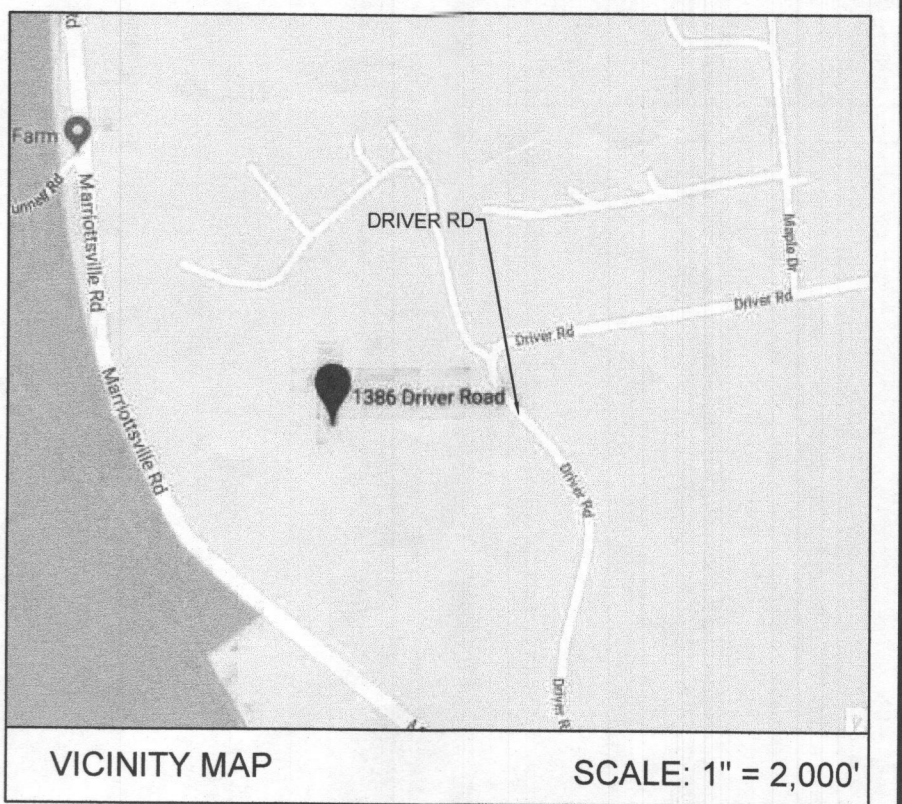
DATE
1/8/2019

SCALE
1"=40'

SHEET NUMBER
1 of 1

D.A. TO STUDY POINT A
322,712 S.F.(7.41 ACRES.)
[INCLUDING 1.78 ACRES. OFFSITE
DRAINAGE AREA]

Address: Driver Rd
Site Area: 245100.00 S.F.
Limit of Disturbance: 26400.00 S.F.



PIPE SCHEDULE					
FROM	TO	LENGTH	INVERT OUT	INVERT IN	SLOPE (%)
DS-1		43	548.8	546.5	5.35
DS-2	DW2	20	548.1	546.5	8.00
DS-3		118	548.1	543.8	3.64
DS-4	DW1	78	549	543.8	6.67
DS-5		68	548.4	544.7	5.44
DS-6	DW3	48	549	544.7	8.96

Drywell Schedule				
DRYWELL	ELEV. A	ELEV. B	ELEV. C	CONTRIBUTING IMPERVIOUS AREA(S.F.)
1	546.3	544.8	539.8	5'X8'X7.7' = 1000
2	549	547.5	542.5	5'X10'X10.25' = 1000
3	547.2	545.7	540.7	5'X10'X10.25' = 1000

Impervious Area		
On Site	Off-Site	Total
New Building/Roof: 34,900 S.F.		
New Drive Way: 1,290 S.F.		
New Sidewalk/Porch: 630 S.F.	0.00 S.F.	
Existing Pool: 0.00 S.F.		
Total Impervious Area (On-Site): 36,820 S.F.		
Total Impervious Area (Off-Site): 0.00 S.F.		
Total Impervious Area (On-Site): 36,820 S.F.		

Calculation				
Hydrologic Soil Group	A	B	C	D
Soil Type	---	---	---	---
Percentage	548.00%	45.20%	0.00%	0.00%
Target PE: 1.00 inch	Based on entire lot			
Rv=0.05-0.009(I)=0.221	Based on LOD			
ESD=(PE/Rv)(A)=487.10 C.F.	REQUIRED ESDv			

GENERAL NOTES
NOTES:

- SUBJECT PROPERTY ZONED R-C (DEO) PER 06/25/2015 COMPREHENSIVE ZONING PLAN.
- COORDINATES REFERENCED TO THE VERTICAL DATUM OF THE NATIONAL GEODETIC SURVEY (NAVD88) AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS:

NO.10CA NORTH	610473.234	FEET	ELEV. 483.536
EAST	1342530.924	FEET	
NO.10BA NORTH	612486.567	FEET	ELV. 435.258
EAST	1341887.106	FEET	
- THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD-RUN SURVEY, BASED ON A GLOBAL POSITIONING SYSTEM (G.P.S.) SURVEY CONDUCTED IN JULY, 2009 BY CLOVERLEA LAND SURVEYS, INC.
- EXISTING USE: VACANT
- PROPOSED USE: RESIDENTIAL (SINGLE FAMILY)
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH CHAPTER 5 OF THE MARYLAND STORMWATER MANAGEMENT MANUAL, VOLUME I & II REVISED 2009. WE ARE PROVIDING THREE DRY-WELLS (M-5) AND ONE NON-ROOFTOP DISCONNECTION TO ATTENUATE THE ESD REQUIRED FOR THE SITE.
- THIS PROPERTY IS SERVED BY SEPTIC AND WELL.
- FOREST CONSERVATION WILL NOT BE REQUIRED, SINCE THE AMOUNT OF FOREST REMOVED ON THIS PROPERTY WILL BE 8986 SQUARE FEET WHICH IS BELOW THE 20,000 SQUARE FEET THRESHOLD.
- THIS PROJECT IS NOT SUBJECT TO THE REQUIREMENTS OF THE HOWARD COUNTY SUBDIVISION REQUIREMENTS, SINCE THIS PROPERTY WAS CREATED 1949, AND HAS NOT BEEN ALTERED SINCE.
- A FOREST STAND DELINEATION PLAN AND DATED APRIL 21, 2015 AND PREPARED BY ANDREA MURTHA OF Wetland Studies and Solutions, Inc. AND HAVE BEEN PROVIDED AS PART OF THE SUBMISSION.
- NO ENVIRONMENTAL FEATURE EXIST WITHIN THE L.O.D.

Gravel Drywell #1
DA To DS1: 1000.00 S.F.
Provide maximum volume equal to 2" of rainfall therefore volume allowed is:
 $V=(2.6' \times 95' \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 8.00 Feet
Assume Width= 7.70 Feet
Drywell Area= 61.60 S.F.
Volume Provided=(0.4)(Area)(Depth)= 123.20 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging PE=(ESDv)(Rv)(A)= 1.56 inch < 2.6 inch-OK

Gravel Drywell #2
DA To DS2: 1000.00 S.F.
Provide maximum volume equal to 2" of rainfall therefore volume allowed is:
 $V=(2.6' \times 95' \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging PE=(ESDv)(Rv)(A)= 2.59 < 2.6 inch-OK

Gravel Drywell #3
DA To DS3 & DS4: 1000.00 S.F.
Provide maximum volume equal to 2" of rainfall therefore volume allowed is:
 $V=(2.6' \times 95' \times 1000 \text{ S.F.}) / 12 = 205.83 \text{ C.F.}$
Provide Gravel Drywell System
Void Ratio: 0.40
Size Drywell:
Assume Depth= 5.00 Feet
Assume Length= 10.00 Feet
Assume Width= 10.25 Feet
Drywell Area= 102.50 S.F.
Volume Provided=(0.4)(Area)(Depth)= 205.00 C.F.
Rainfall Attenuated by this System is ESDv=(PE/Rv)(A)/12
Re-Arranging PE=(ESDv)(Rv)(A)= 2.59 < 2.6 inch-OK

Summary		
DxLxW	Volume provided	
Drywell #1: 5'X8'X7.7'	123.20 C.F.	
Drywell #2: 5'X10'X10.25'	205.00 C.F.	
Drywell #3: 5'X10'X10.25'	205.00 C.F.	
Total Volume Provided:	533.20 C.F.	

PROPOSED FEATURE	SYMBOL
LIMIT OF DISTURBANCE	LOD
PROPOSED BUILDING	[Symbol]
PROPOSED PAVEMENT	[Symbol]
PROPOSED CONTOUR	100
PROPOSED SPOT ELEVATION	+250
PROPOSED GRAVEL DRYWELL	[Symbol]
PROPOSED DOWNSPOUT LOCATION	DS1
PROPOSED 6" PVC PIPE	6" PVC
PROPOSED 6" PERFORATED PIPE	6" PVC
PROPOSED SILT FENCE	SF
PROP. WATER HOUSE CONNECTION	WHC
STABILIZED CONSTRUCTION ENTRANCE	SCE

SITE PLAN LEGEND	
EXISTING FEATURE	SYMBOL
SUBJECT SITE BOUNDARY	[Symbol]
ADJOINING PROPERTY BOUNDARY	[Symbol]
BUILDING RESTRICTION LINE	7.BR.
EXISTING CONTOURS (MINOR)	101
EXISTING CONTOURS (INDEX)	100
EXISTING FENCE	X
EXISTING TREE LINE	[Symbol]
EXISTING WATER WELL	W
EXISTING TREE TO BE REMOVED	[Symbol]

PROPOSED CONDITIONS

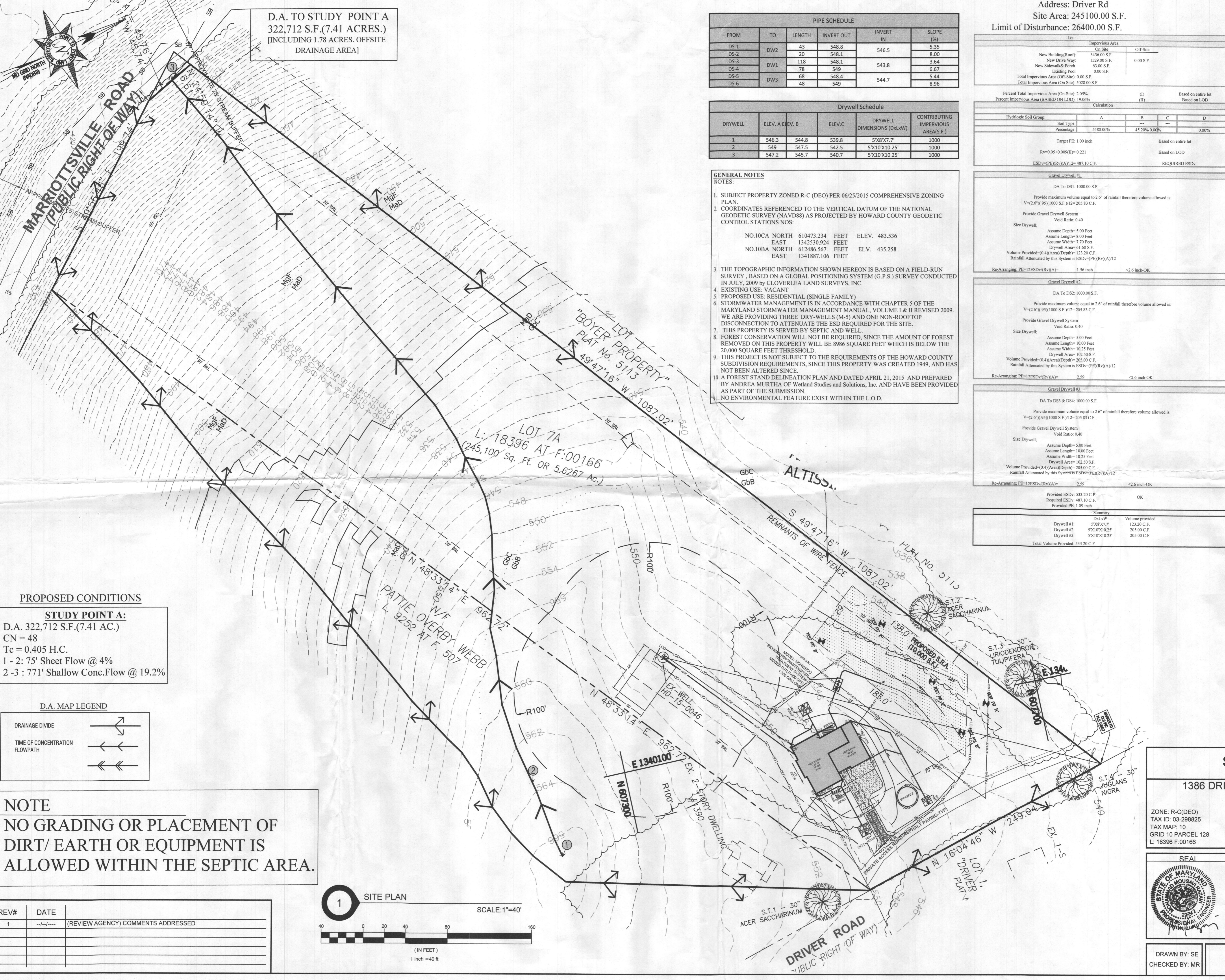
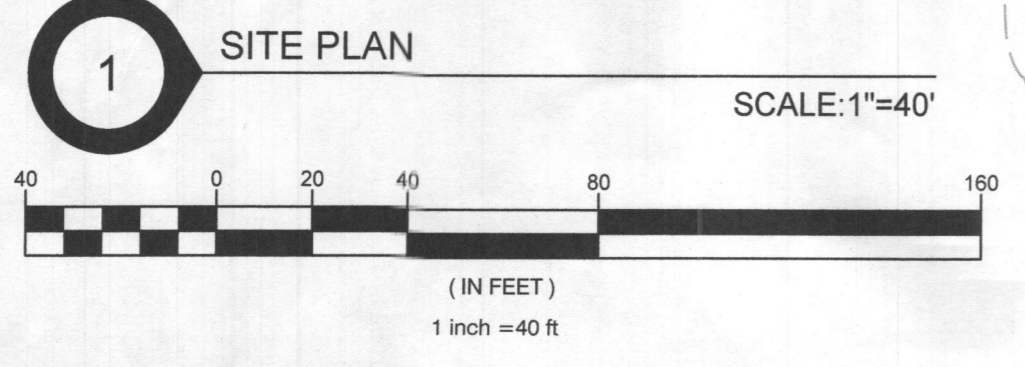
STUDY POINT A:
D.A. 322,712 S.F.(7.41 AC.)
CN = 48
Tc = 0.405 H.C.
1 - 2: 75' Sheet Flow @ 4%
2 - 3: 771' Shallow Conc.Flow @ 19.2%

D.A. MAP LEGEND

DRAINAGE DIVIDE	[Symbol]
TIME OF CONCENTRATION FLOWPATH	[Symbol]

NOTE
NO GRADING OR PLACEMENT OF DIRT/ EARTH OR EQUIPMENT IS ALLOWED WITHIN THE SEPTIC AREA.

REV#	DATE	(REVIEW AGENCY) COMMENTS ADDRESSED
1		



SITE GRADING PLAN

1386 DRIVER RD MARRIOTTVILLE LOT 7A

SITUATED AT:
1386 DRIVER ROAD,
HOWARD CO., MD

ZONE: R-C(DEO) TAX ID: 03-298825 TAX MAP: 10 GRID 10 PARCEL 128 L: 18396 F:00166	OWNER/APPLICANT INFO COLLIN FERGUSON KIMBERLY FERGUSON 731 S. CURLEY ST BALTIMORE MD 21224 PHONE: (443) 742-1382 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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SEAL
STATE OF MARYLAND
COLLIN FERGUSON
PROFESSIONAL ENGINEER

RAZTEC ASSOCIATES, INC.
civil engineers & planners
341 West Patrick St. Frederick, Maryland 21701
Tel (301) 775-4394
email: raztecengr@comcast.net

PROFESSIONALS' REVIEW STATEMENT:
I 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 NUMBER: 22742 EXPIRES: JUNE 15, 2020

DRAWN BY: SE CHECKED BY: MR	DATE 1/8/2019	SCALE 1"=40'	SHEET NUMBER 1 of 1
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