



Howard County
Health Department

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: 12-20-12

ONSITE SEWAGE DISPOSAL SYSTEM

P 544481

APPROVAL DATE: 7/31/15 sec

PERMIT:

CONSTRUCTION

A

PROPERTY ADDRESS: 11321 Willow Ridge Lane

SUBDIVISION: Willow Ridge

LOT: 6

TAX ID: 03-594336

CONTRACTOR: Farm and Home Excavating

EMAIL:

CONTRACTOR ADDRESS: 901 Driver Rd, Marriottsville, MD 21104

PHONE: 410-442-2139

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

☒ MDE

☒ MANUFACTURER:

PROPERTY OWNER: Vidya Sridhar

EMAIL: Vidya635@hotmail.com

OWNER ADDRESS: 2845 Carroll Wind Drive, Ellicott, City, MD 21043

PHONE: 443-756-7492

Advantex AX20 Mode

BAT UNIT MODEL: 3

PUMP SIZE:

PUMP TANK CAPACITY:

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: 11/5/14

DATE RECORDED: 11/17/14

DISTRIBUTION SYSTEM:

☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: 130 140'

INLET DEPTH: 44' Deep

TRENCH WIDTH: 32' -> shallower

MAXIMUM BOTTOM DEPTH: 78' - ? Trench

MINIMUM SPACE

BETWEEN TRENCHES: 20 9'

EFFECTIVE AREA BEGINNING DEPTH: 5

LOCATION:

PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.

orig = 97 tons stone

NOTES:

Install cleanout in SHC as needed.

* spec may need to be adjusted @ time of layout -
2-70' trenches

new = 70 tons stone

ISSUED BY: Hank Oswald

KMD

ISSUE DATE: 6/24/15

EXPIRATION DATE: 6/24/16

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 15001715

NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

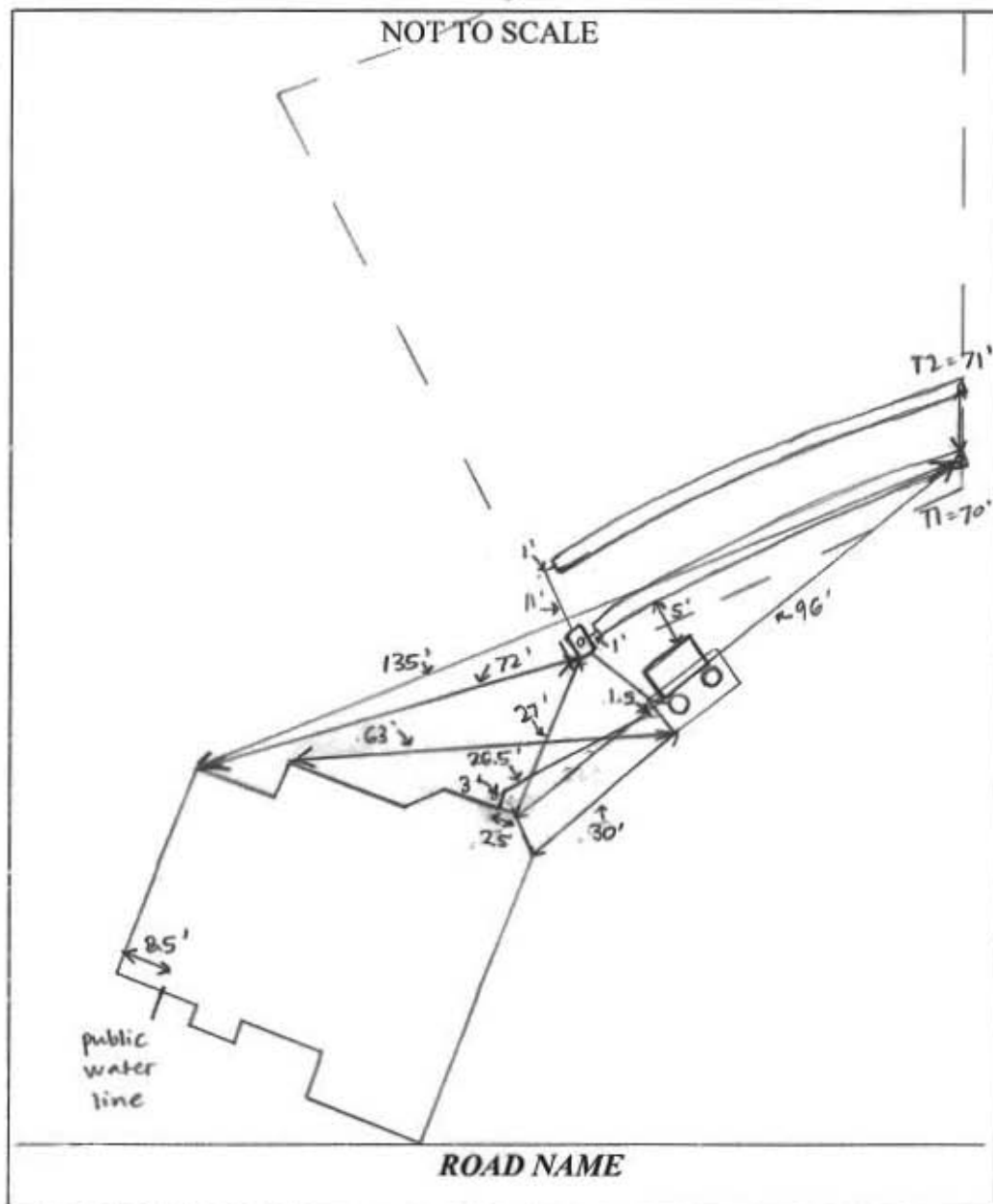
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 2' INLET 3.5' BOTTOM 8'
NUMBER OF TRENCHES 2
TOTAL LENGTH 141'
ABSORPTION AREA 282' + SIDEWALL
DISTRIBUTION BOX LEVEL YES
DISTRIBUTION BOX BAFFLE YES
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
MANUFACTURER BABYLON
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH 3.5'
BAFFLES YES
BAFFLE FILTER NO
MANHOLE LOC FRONT + REAR
6" PORT LOC NONE
WATERTIGHT TEST NO
SLOTTED NO
DATE ON LID 12-7-14

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:

6/29/15 Met Bill Ingram for layout. Shot contour and laid out 2 x 70' trenches on eastern portion of SDA. Couldn't use upper corner of SDA b/c contour is too variable. SDA is staked but BAT tank is not - laid out stakes for tank corners that roughly correspond with BAT plan but tank is turned 90° CCW and 10' closer to house. Confirmed with builder via phone that change is okay. (SC)

INSTALLATION: 7/1/15 On site during tank delivery. No cracks on bottom of tank, tank has a load-bearing lid. House connection made. Sewer line leaves basement deeper than shown on BAT site plan and tank is set deeper to get adequate fall. (SC)
7/2/15 D-box installed and connected. 2" PVC from tank to D-box. Bill currently digging T1, adding stone + pipe as trench is dug. Inlet of T1 is closer to 3.5'. (SC) 7/2/15 Digging T2, inlet also closer to 3.5'. Speed levelers in D-box. Stone from Timonism, not many fines at bottom of pile. Need BAT startup certification. (SC) 3/19/18 BAT startup received from Advantex. Startup date listed as 7-31-15. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 7/31/15



AdvanTex® Field Maintenance Report **Start-Up Summary Report**

Atlantic Solutions, MD
(877) 814-8426

Property Owner/Tracking #		Operator		Installed Date	
Site Address 11321 Willow Ridge, Ellicott City MD 21042					Start-Up Date
Phone Number	Permit #	Mode Mode 3A	Bedrooms	Occupants	Occupancy Date
Designed/Engineer Atlantic Solutions		Phone (401) 293-0176	Authorized Installer		Phone
AdvanTex Dealer Atlantic Solutions, LTD		Phone (401) 293-0176	Electrician		Phone

Primary Treatment

If using a single Processing Tank, complete the following:

☐ Processing Tank

Septic Volume (____ gal.) Recirc Volume (____ gal.)

Construction ☐ Concrete ☐ Fiberglass ☐ Other

Manufacturer: _____

If using a separate Septic Tank and Recirc Tank, complete the following:

☐ Septic Tank (____ gal.)

Construction ☐ Concrete ☐ Fiberglass ☐ Other

Manufacturer: _____

☒ Recirc Tank (____ gal.)

Construction ☒ Concrete ☐ Fiberglass ☐ Other

Manufacturer: _____

☒ Pump Model:

PF 300511

☒ Floats set properly at 11 -in. 13 -in. 24 -in.

Secondary Treatment

☐ RSV setting: ____ -in.

☐ Residual head measurement:

Pod #1 ____ -in. Pod #2 ____ -in. Pod #3 ____ -in.

☐ Discharge Tank/Basin (____ gal.)

Construction ☐ Concrete ☐ Fiberglass ☐ PVC (Basin)

Manufacturer: _____

☐ Pump Model: _____

☐ Floats set properly at ____ -in. ____ -in. ____ -in.

☐ Discharge pump flow rate (drawdown test): (____ gpm)

☐ Discharge pump dose volume: (____ gal./dose)

Comments Start up

Control Panel

Panel ID (RTU or UL #)	"On" Timer Setting	"Off" Timer Setting
TCOM - MVP		

Filter Pods

Pod #1 Serial No.	Pod #2 Serial No.	Pod #3 Serial No.
420758		

Other System Components

☐ Disinfection equipment (manufacturer): _____

☐ Dispersal system (type of): _____

Declarations (Initial)

☒ Owner's Start-Up Procedure was followed.

☒ All lids are secured.

☒ Circuit breakers are on and control panel is latched.

☒ "For Service Call" label with phone # was affixed to panel.

Homeowner Package was reviewed with:

☐ Builder on (date) _____

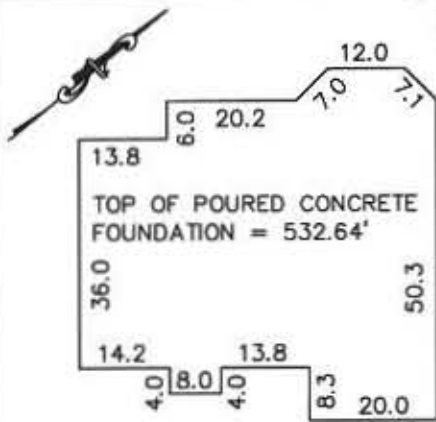
☐ Resident on (date) _____

The system is ready for use ☒ Yes ☐ No (explain)

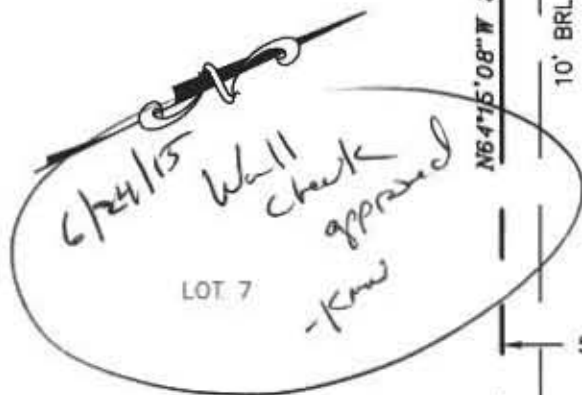
Signature _____

Date 7-31-15

Fax completed form to 1-866-384-7404



DETAIL 'A'
1"=30'



10' PUBLIC TREE
MAINTENANCE EASEMENT
5' PUBLIC ACCESS &
MAINTENANCE EASEMENT

WILLOW RIDGE LANE
(PUBLIC ACCESS PLACE)

DIMENSIONS FROM FOUNDATION WALL TO PROPERTY LINE ARE +/-0.1'.
ADDRESS No.: 11321 Willow Ridge Lane Lot 6 WILLOW RIDGE
TOP OF POURED CONCRETE FOUNDATION ELEV. = 532.64'
THIS LOCATION DRAWING IS OF BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS
REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENT IN
CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING.
THIS LOCATION DRAWING IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR
LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE
IMPROVEMENTS.
THIS LOCATION DRAWING DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION
OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED
FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.

FSH Associates

Engineers Planners Surveyors

6339 Howard Lane, Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: FSHERI.COM

Professional Certification. I hereby certify that these documents were prepared by
me or under my responsible charge, and that I am a duly licensed property line
surveyor under the laws of the State of Maryland, License No. 135, Expiration
Date: April 12, 2016.

FINAL LOCATION

FOUNDATION	Date: 02/04/15
FINAL	
DRAWN BY:	KJB
SCALE:	1"=50'
W.O. No.:	3807



LOT 6
WILLOW RIDGE
#11321 WILLOW RIDGE LANE
MDR PLAT No. 22032
TAX MAP 16 GRID 15
PARCEL NOS. 89, 91, P/O 183 & 201
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



HOWARD COUNTY HEALTH DEPARTMENT

44481

CODES

DATE

12/20/12

PS

☐ CASH
☒ CHECK

Received From

Farm & Home Excavating

For

Septic Permit - Willow Ridge

NO.

13721

Seven hundred ninety-two ⁴⁴/₁₀₀ Lot 6 & Parcel C

Dollars

\$

792.00

Received By

J King

Lot 6 W321 Willow Ridge Lane
Ellicott City, MD 21042

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

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

=====

LR - Agreement Recording Fee		
	1x	20.00 20.00

Grantor/Grantee Name: Howard County
Health
Reference/Control #: 32

LR - Agreement Surcharge

	1x	40.00 40.00
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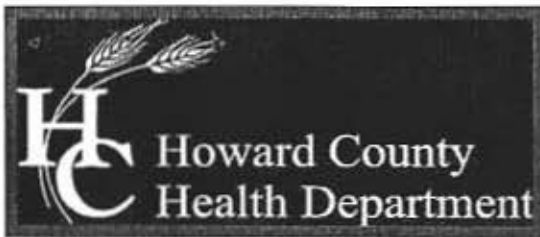
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SubTotal:	60.00
Total:	60.00

=====

RE: Check-BOA	60.00
Number : 320	

11/17/2014 10:47 CC13-KD
#3537596 /1342/109
Thank you for visiting us today~



Bureau of Environmental Health

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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 5th day of NOVEMBER 2014, among
VIDYA SRIDHAR + BALAKRISHNAN SRIDHAR, 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
11321 WILLOW RIDGE LANE, ELLICOTT CITY, MD, in the 03 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 14209 Folio 3165.

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 BAT SYSTEM

NOW, THEREFORE, the parties hereto agree as follows: ADVANTEX AX20 MODEL 3A
w/concrete Tank

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.

Bert Nye 11/5/2014
Howard County Health Department

Vidya Sridhar 10/29/2014
Owner #1 Signature Date

VIDYA SRIDHAR
Owner #1 Print Name

B. Sridhar 10/29/14
Owner#2 Signature Date

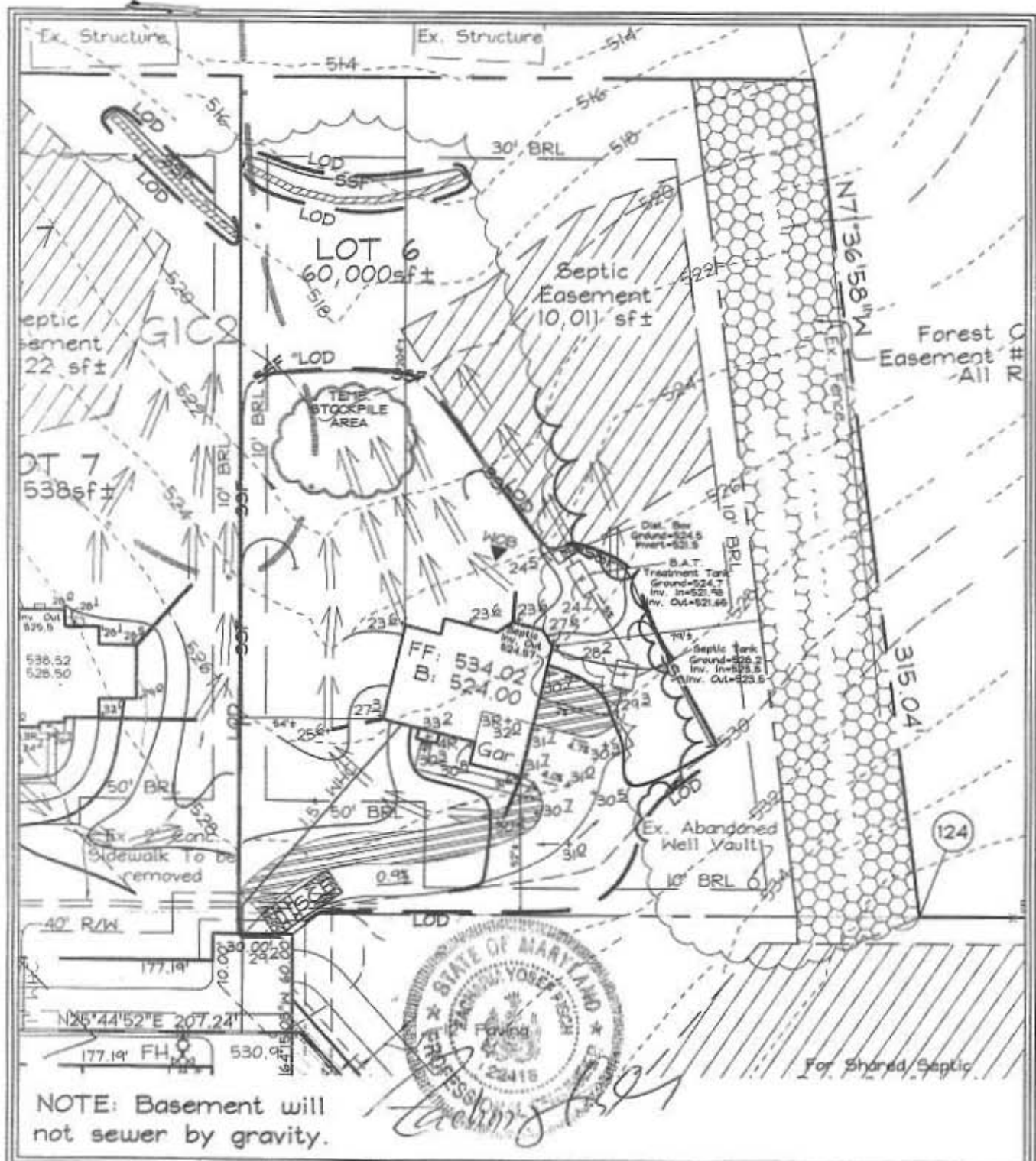
BALAKRISHNAW SRIDHAR
Owner #2 Print Name

Buyer #1 Signature Date

Buyer #1 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name



DESIGN BY: CRH2
 DRAWN BY: CRH2
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: June 6, 2013
 W.O. No.: 3033
 SHEET No.: 1 OF 1

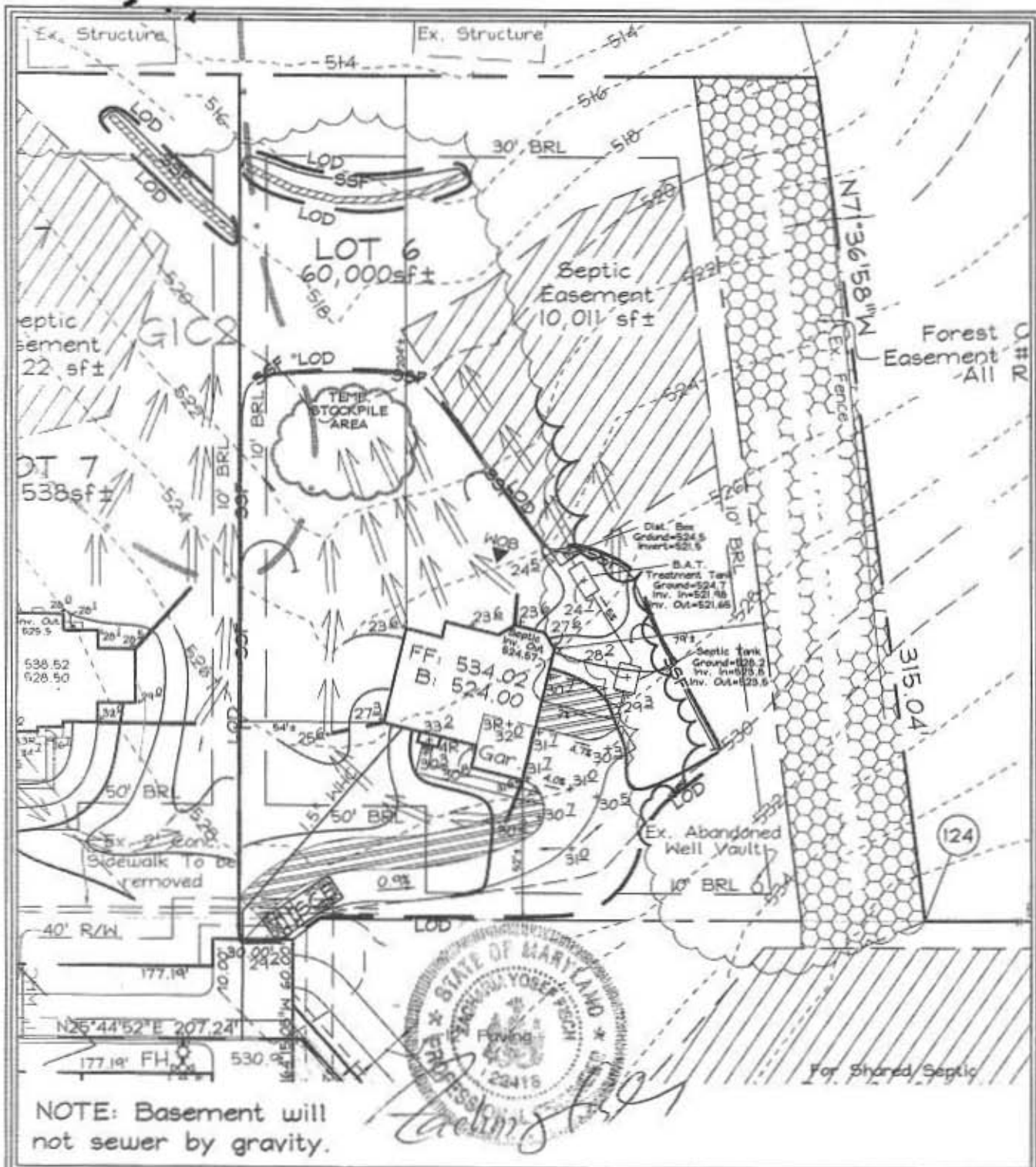
FSH Associates
 Engineers Planners Surveyors
 6335 Howard Lane Ellicott City, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1302
 E-mail: info@fshen.com

RESITE #2 WILLOW RIDGE

LOT 6

GP-13-065 & Plat #22030-22033

TAX MAP 16, GRID 15 PARCELS 89, 91 & 201
 3RD ELECTION DISTRICT HOWARD CO., MD



DESIGN BY: CRH2
 DRAWN BY: CRH2
 CHECKED BY: ZYF
 SCALE: 1" = 50'
 DATE: June 6, 2013
 W.O. No.: 3033
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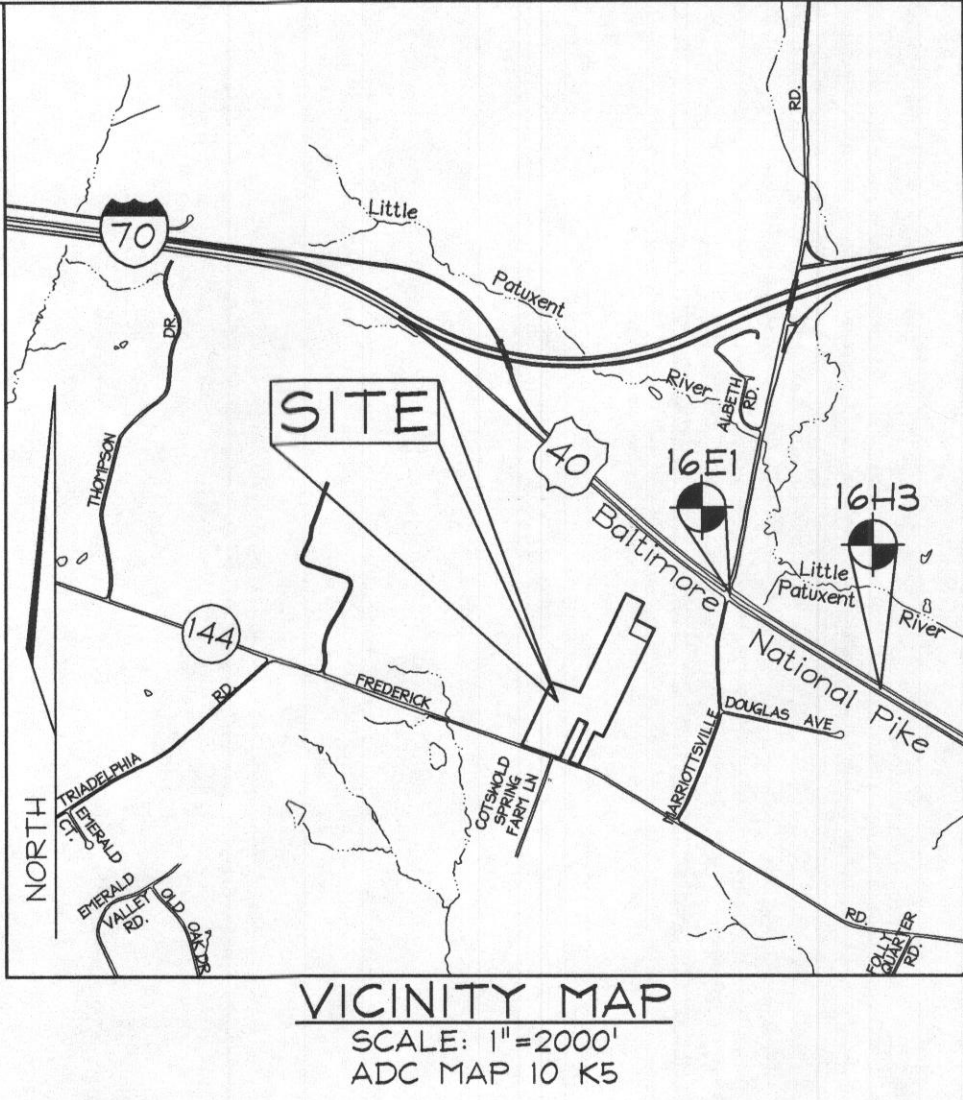
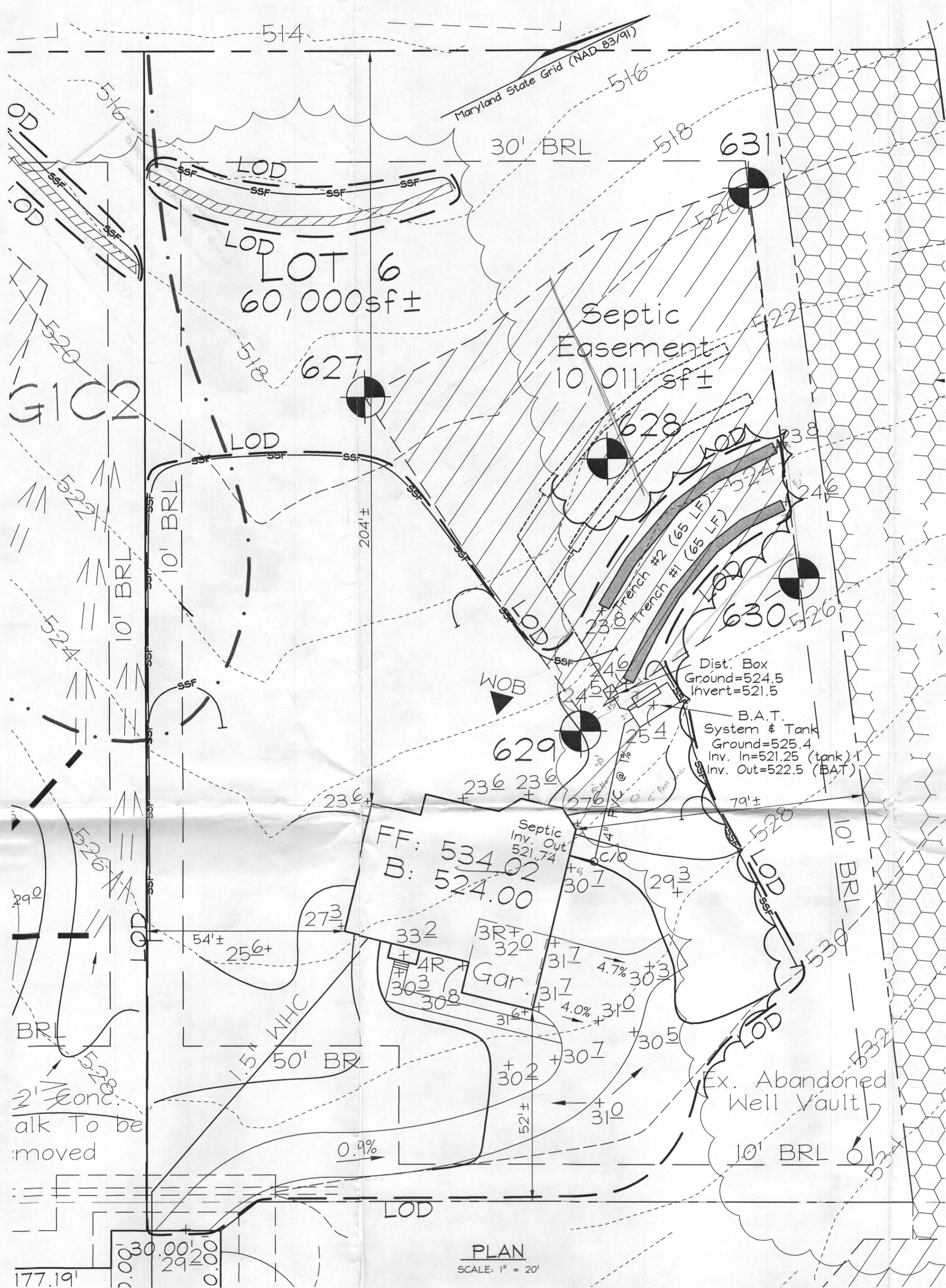
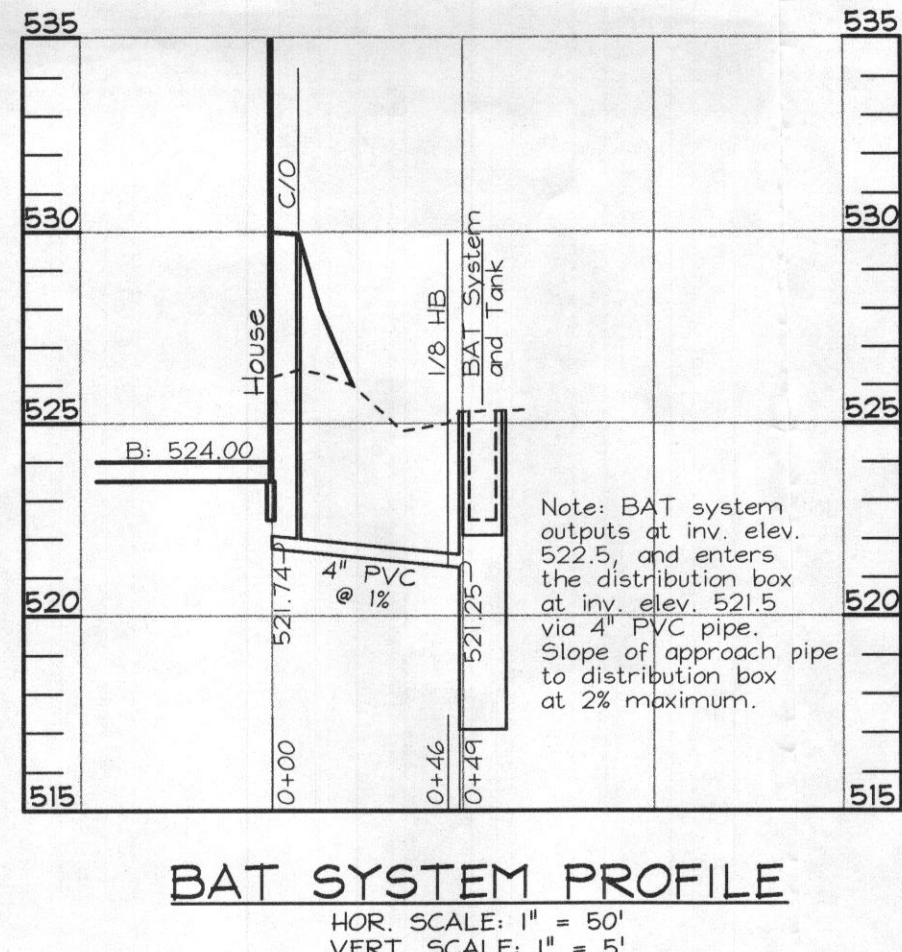
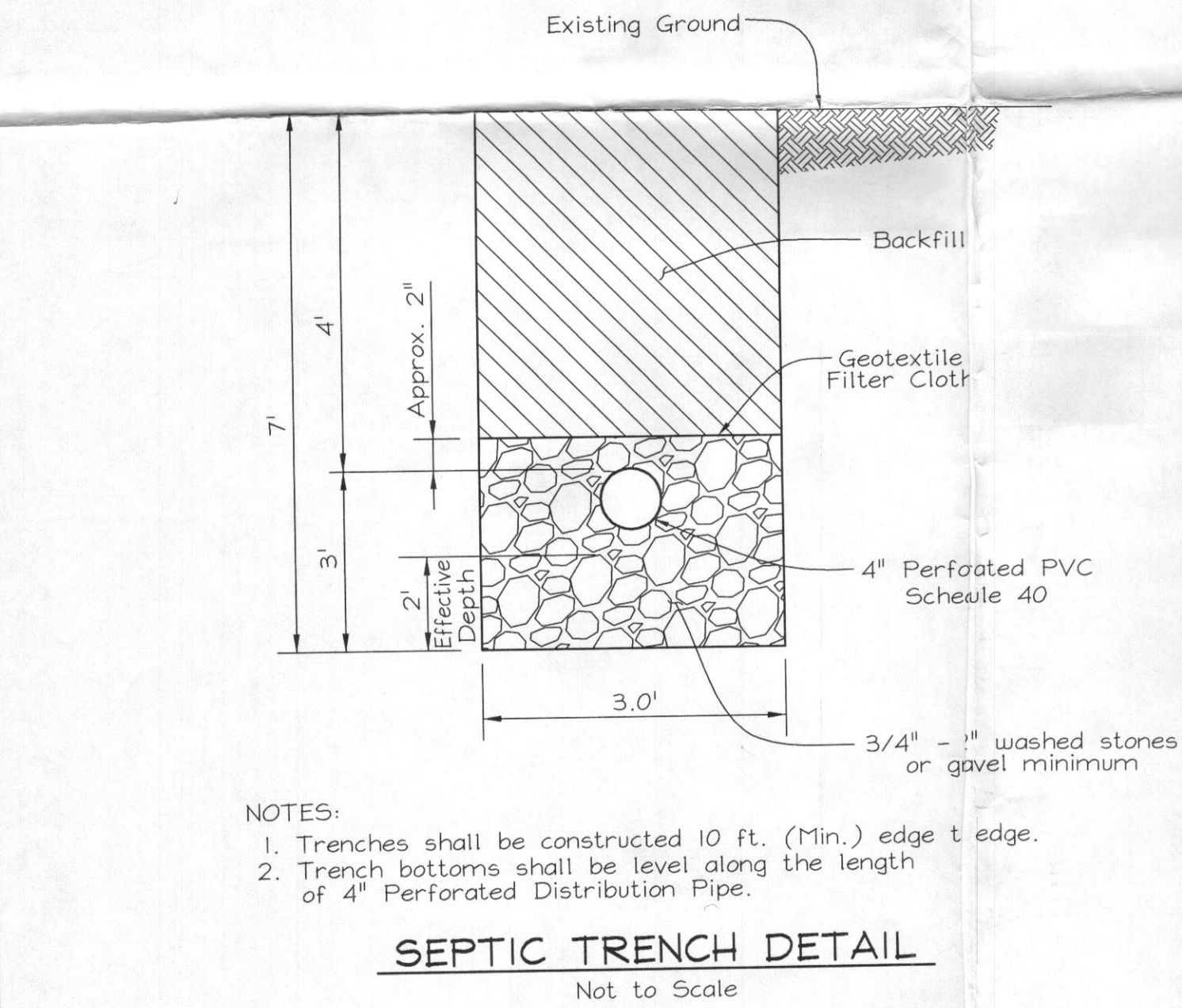
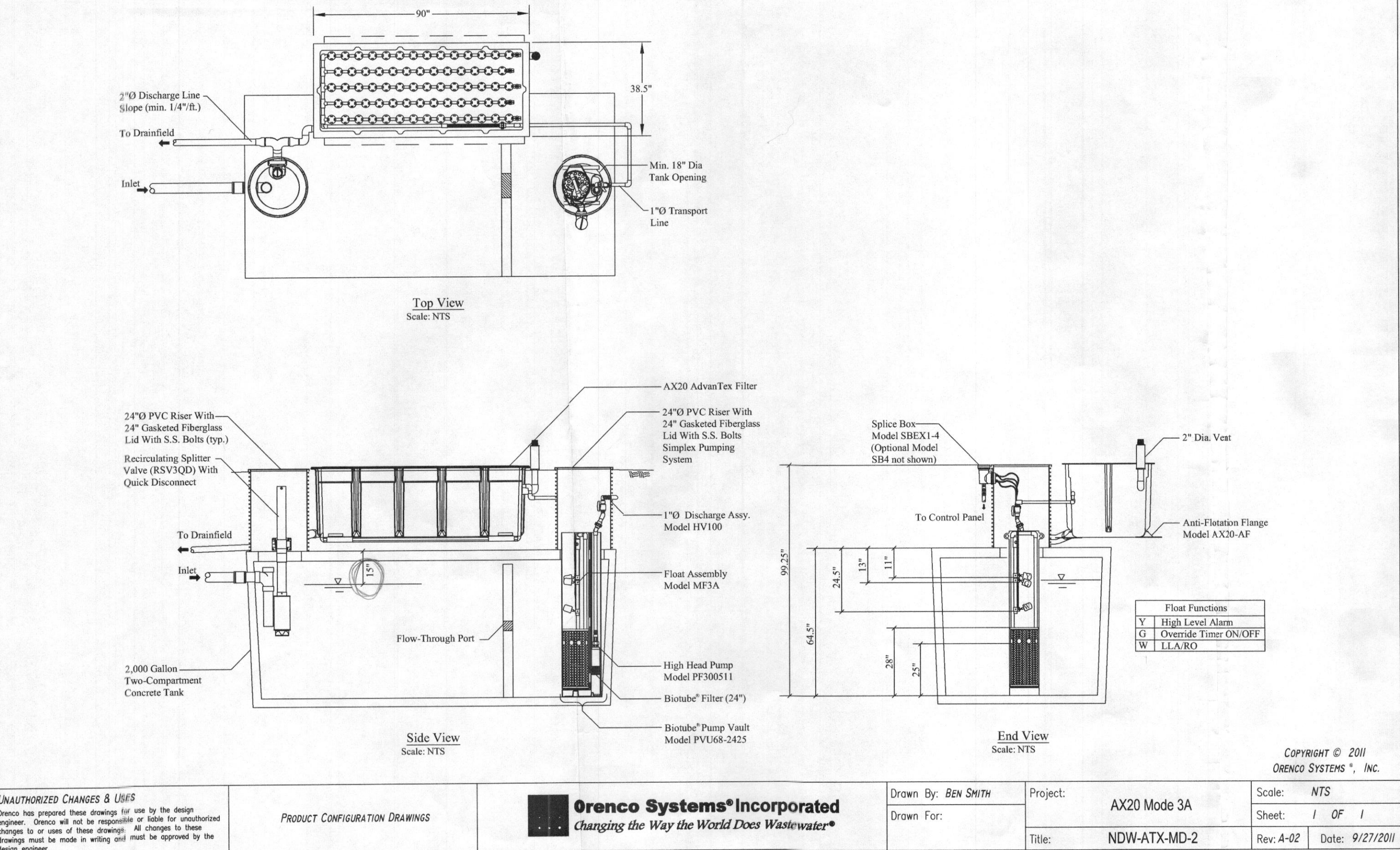
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RESITE #2 WILLOW RIDGE

LOT 6

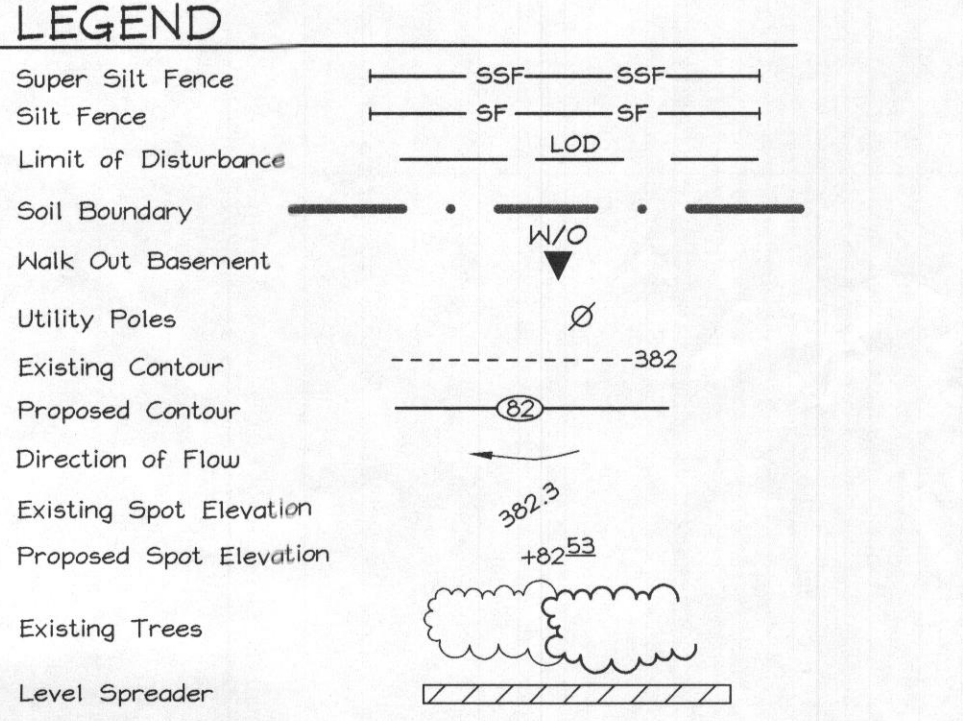
GP-13-065 & Plat #22030-22033

TAX MAP 16, GRID 15 PARCELS 89, 91 & 201
 3RD ELECTION DISTRICT HOWARD CO., MD



GEODETC CONTROL STATIONS
Coordinates based on NAD'83, Maryland coordinate system as projected by Howard County geodetic control stations no. 16E1 and no. 16H3 denotes approximate location (see vicinity map).

Sta. 16E1 N 549,250.9638 E 1,340,192.7010 El.: 463.893
Sta. 16H3 N 542,408.0425 E 1,341,523.9677 El.: 469.712



- SEPTIC B.A.T. SYSTEM 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 feet.
 - The blower may not be located more than N/A 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 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.
 - Electrical control panel for the septic BAT system shall be mounted on a post and located near the system or the house.

Approved Septic System Plan
Howard County Health Department

Signature: _____ Date: 11/13/11

BUILDER
CLASSIC HOMES
50 W. Edmondston Drive, Suite 405
Rockville, Maryland 20852
301.256.4110

INITIAL SYSTEM				1st REPLACEMENT SYSTEM			
Number of bedrooms	5	Application rate	1.2 gpd/sf	Number of bedrooms	5	Application rate	1.2 gpd/sf
Effective area beginning depth	5'	Bottom maximum depth	7'	Effective area beginning depth	5'	Bottom maximum depth	7'
Design flow	750 gpd	Drainage field square footage	625 sf	Design flow	750 gpd	Drainage field square footage	625 sf
Sidewall reduction credit	0.625	Trench width	3'	Sidewall reduction credit	0.625	Trench width	3'
Effective area depth	2'	Linear length of trench required	130 lf	Effective area depth	2'	Linear length of trench required	130 lf

TRENCH INFORMATION			
Trench Length	65'	Pipe Inv. Bottom	Ground
2	65'	520.8	516.8 523.8

SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MID3	Manor loam, 15 to 25 percent slopes, severely eroded	B

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. #22418, Expiration Date: 07/29/2015.

SITE PLAN FOR BAT INSTALLATION
WILLOW RIDGE LOT 6
Plat #22030-22033

TAX MAP 16 GRID 15
3RD ELECTION DISTRICT

PARCELS 89, 91 & 201
HOWARD COUNTY, MARYLAND

FSH Associates
Engineers Planners Surveyors
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Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fshet.com

DESIGN BY: MLT&CRH2
DRAWN BY: CRH2
CHECKED BY: MLT&ZYF
SCALE: As Shown
DATE: Oct. 27, 2014
W.O. No.: 3033
SHEET No.: 1 OF 1

Rev 3