



**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: 5/3/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 565472

APPROVAL DATE: 08/01/2019 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 13822 Mill Creek Court

SUBDIVISION: Crawford Subdivision LOT: 4 TAX ID: _____

CONTRACTOR: South Carroll Backhoe EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: NVR INC. EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046 PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

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

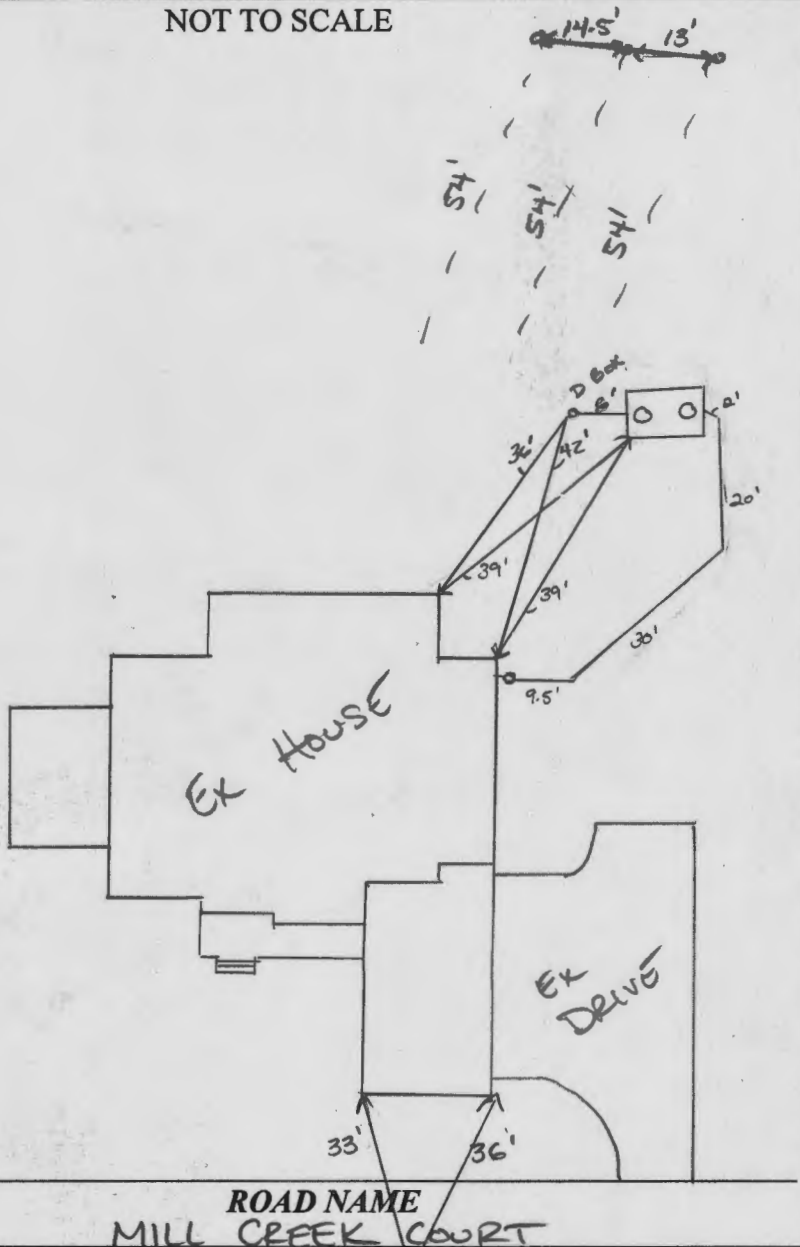
TRENCHES:	LINEAR FEET REQUIRED: <u>156.3</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Dana Bernard ISSUE DATE: 5/15/19 EXPIRATION DATE: 5/3/20

- 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 TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT 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 N/A
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	3	8
NUMBER OF TRENCHES		3
TOTAL LENGTH		162 F
ABSORPTION AREA		486 SF
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5' - 1.0'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	FRONT/BACK
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	YES
DATE ON LID	4/15/2019
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:

5/21/2019

Ho-17-0107

TANK AND SDA STAKED CONFIRMED. TRENCHES LAID OUT ON CONTOUR. TWO TREES MUST BE FELLED.

INSTALLATION: 5/22/2019 SEWER LINE INSTALLED TO TANK. HAS INLET BAFFLE.

6/12/19 Pictures were sent in

FINAL INSPECTOR

K. Wolf

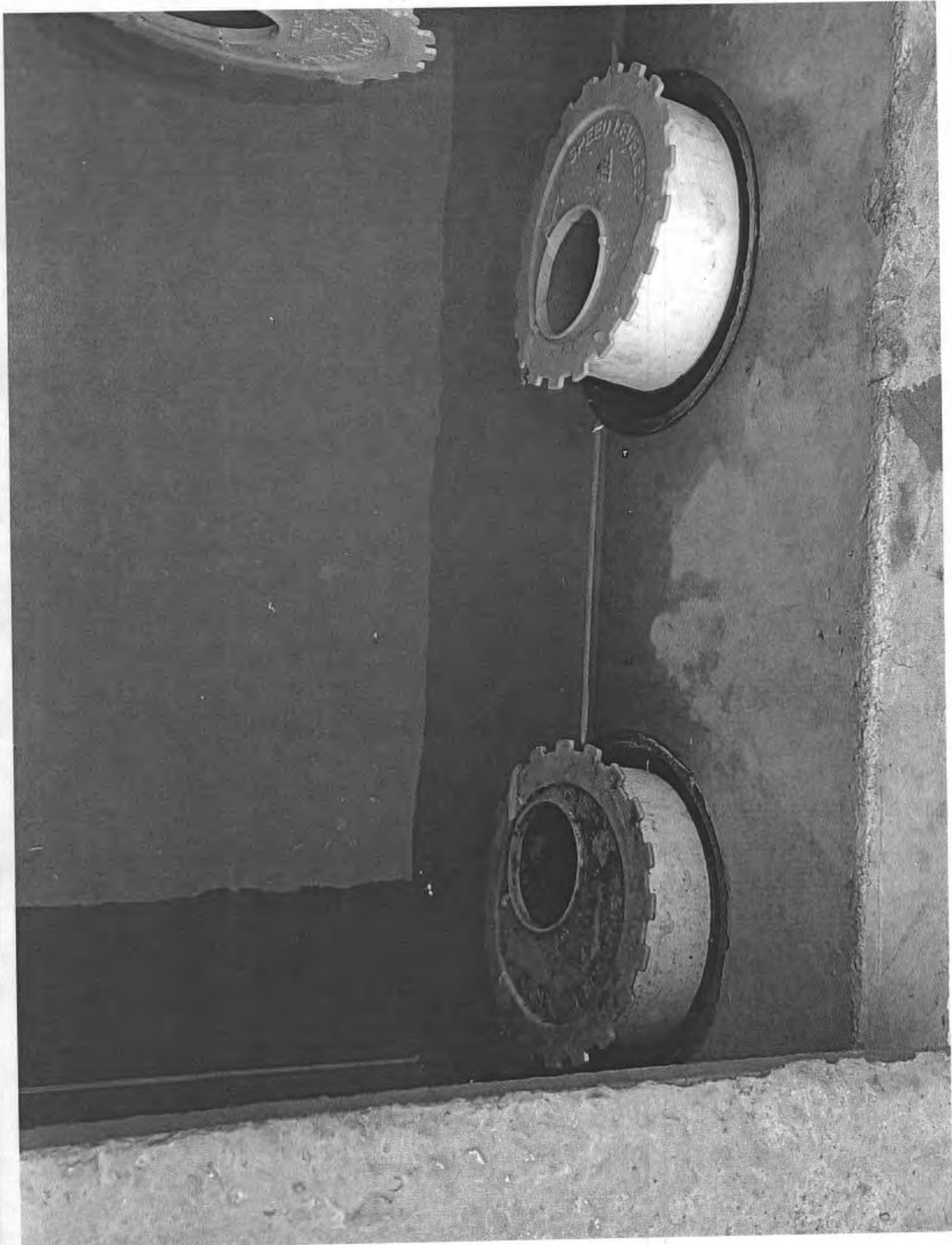
DATE OF APPROVAL

6/12/19 (8/1/19)











GLW
 PLANNING | ENGINEERING | SURVEYING

3909 NATIONAL DR. SUITE 250
 BURTONSVILLE, MD 20866
 301-421-4024 | FAX: 301-421-4186
 WWW.GLWPA.COM

LETTER OF TRANSMITTAL

TO: Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia, MD 21045

ATTN: _____

DATE	1/23/19	JOB NO.	17071
PROJECT	Crawford Subdivision		
	Lot 4 (13822 Mill Creek Ct.)		

WE ARE SENDING THE FOLLOWING ITEMS: ATTACHED UNDER SEPARATE COVER

MYLARS PRINTS COST ESTIMATES DESCRIPTIONS GRADE SHEETS

COPY OF LETTER APPLICATIONS COMPUTATIONS OTHER _____

VIA: MAIL OVERNIGHT GLW COURIER COURIER OTHER _____

COPIES	DATE	PAGES	DESCRIPTION
3		1 of 1	OSDS Plan for Crawford Subdivision - Lot 4 (13822 Mill Creek Ct.)

THESE ARE TRANSMITTED as checked below:

FOR APPROVAL SIGN & RETURN

FOR YOUR USE AS SUBMITTED TO _____

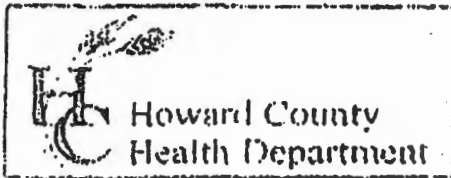
FOR REVIEW & COMMENT AS REQUESTED BY _____

PER YOUR REQUEST _____

REMARKS: _____

COPY TO: _____

SIGNED: *Jennifer Cary*
 Jennifer Cary



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

All individual well sites for lots 2-23 of Mill Creek are staked + properly labeled

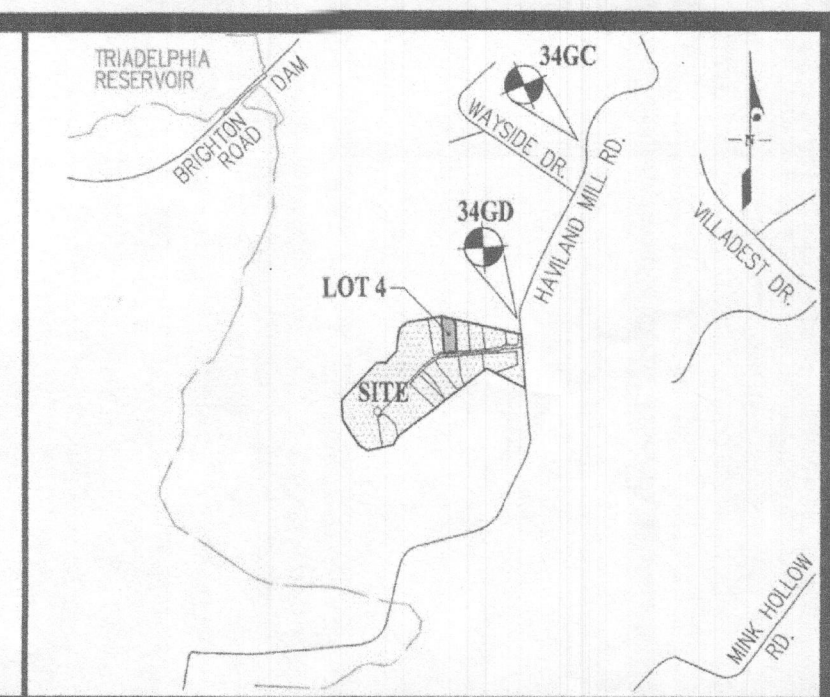
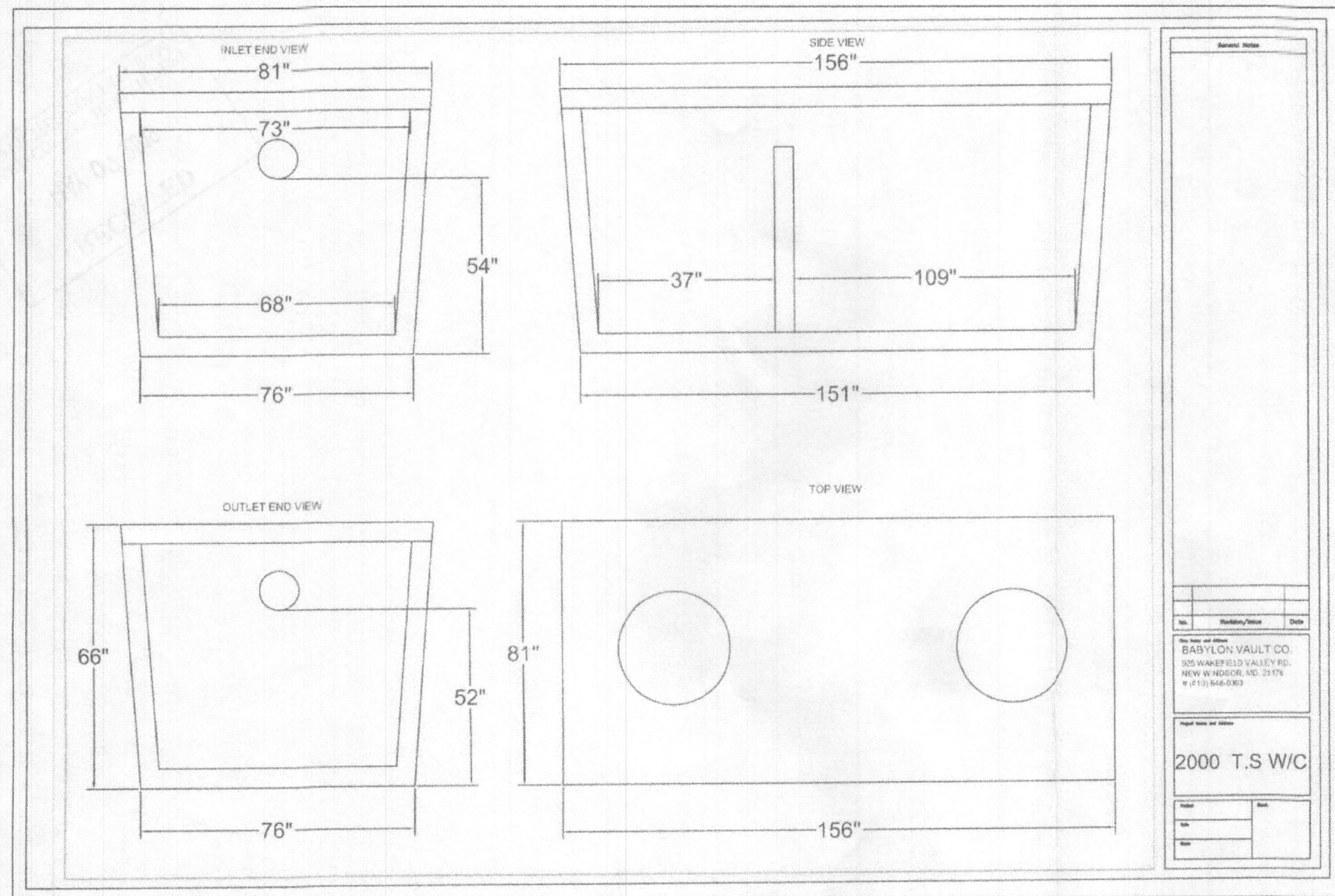
The well site has been staked by Bohler Engineering,
(professional land surveyor or company employing professional land surveyors)
on 3/3/17 (date) and does not require a site inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

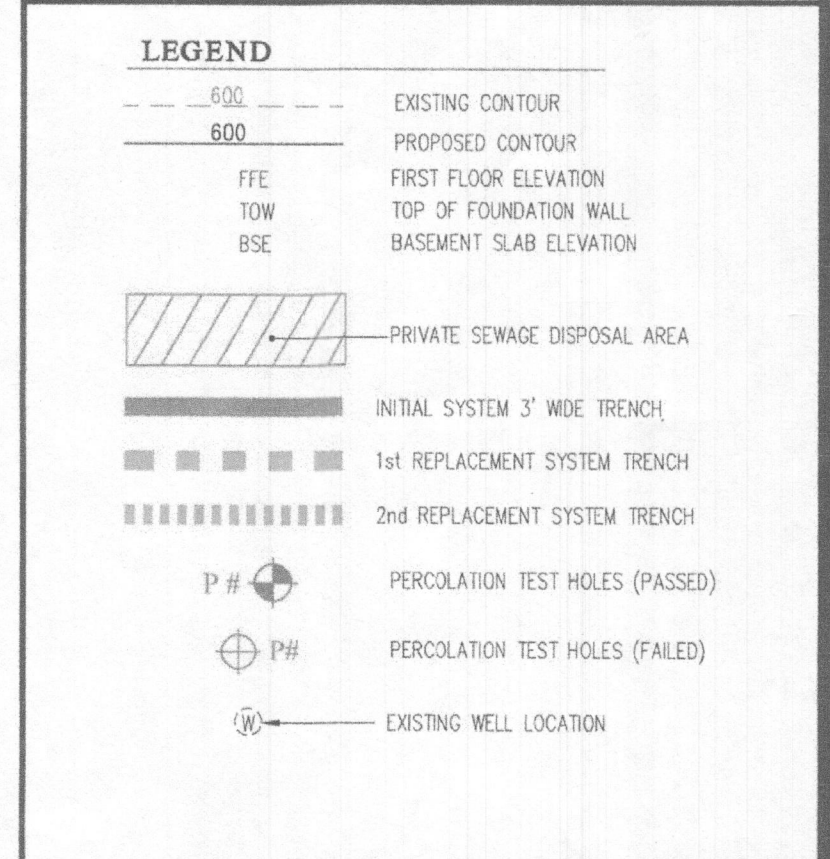
Revised 6/10/03

RECEIVED
MAR -6 2017
HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM



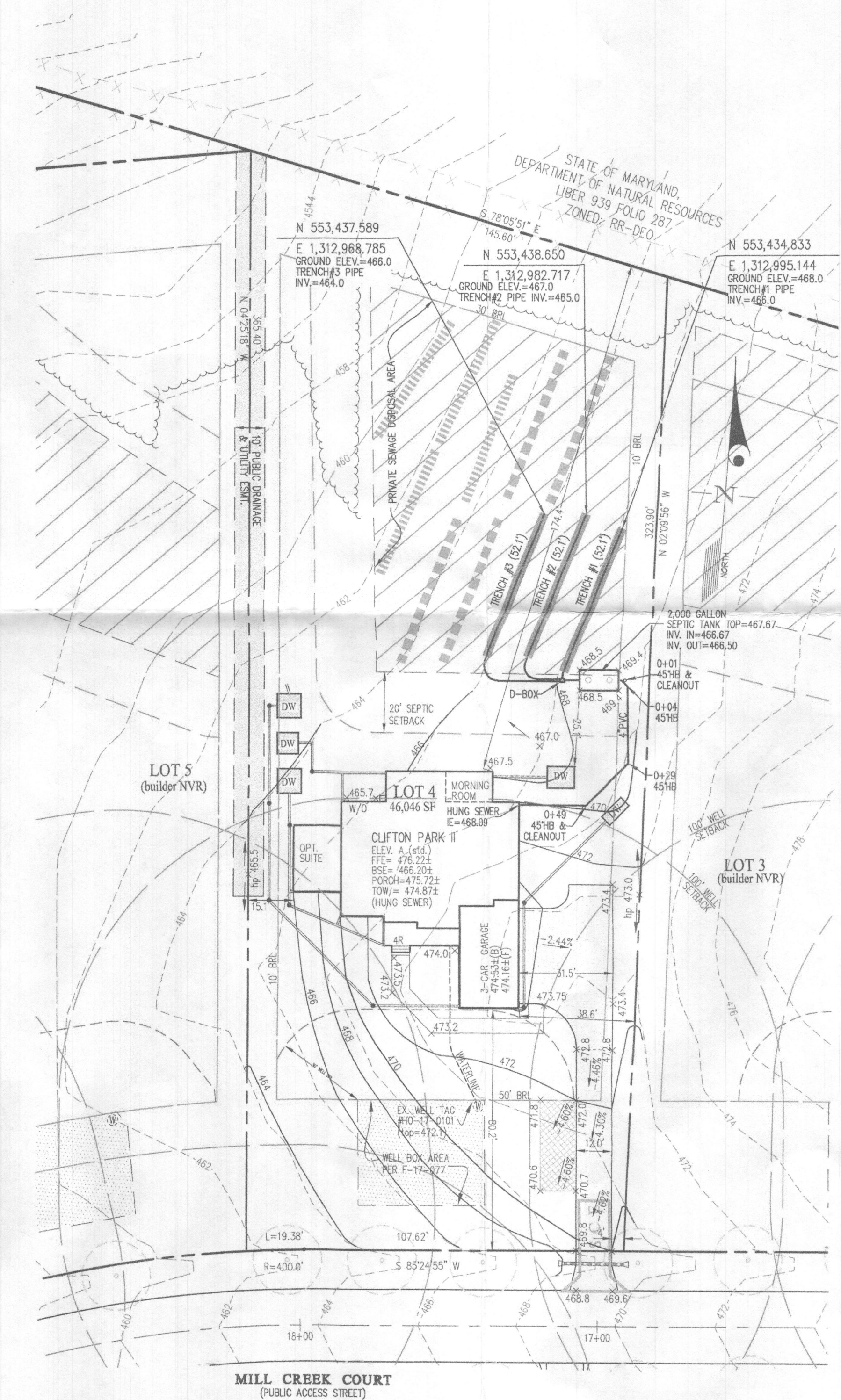
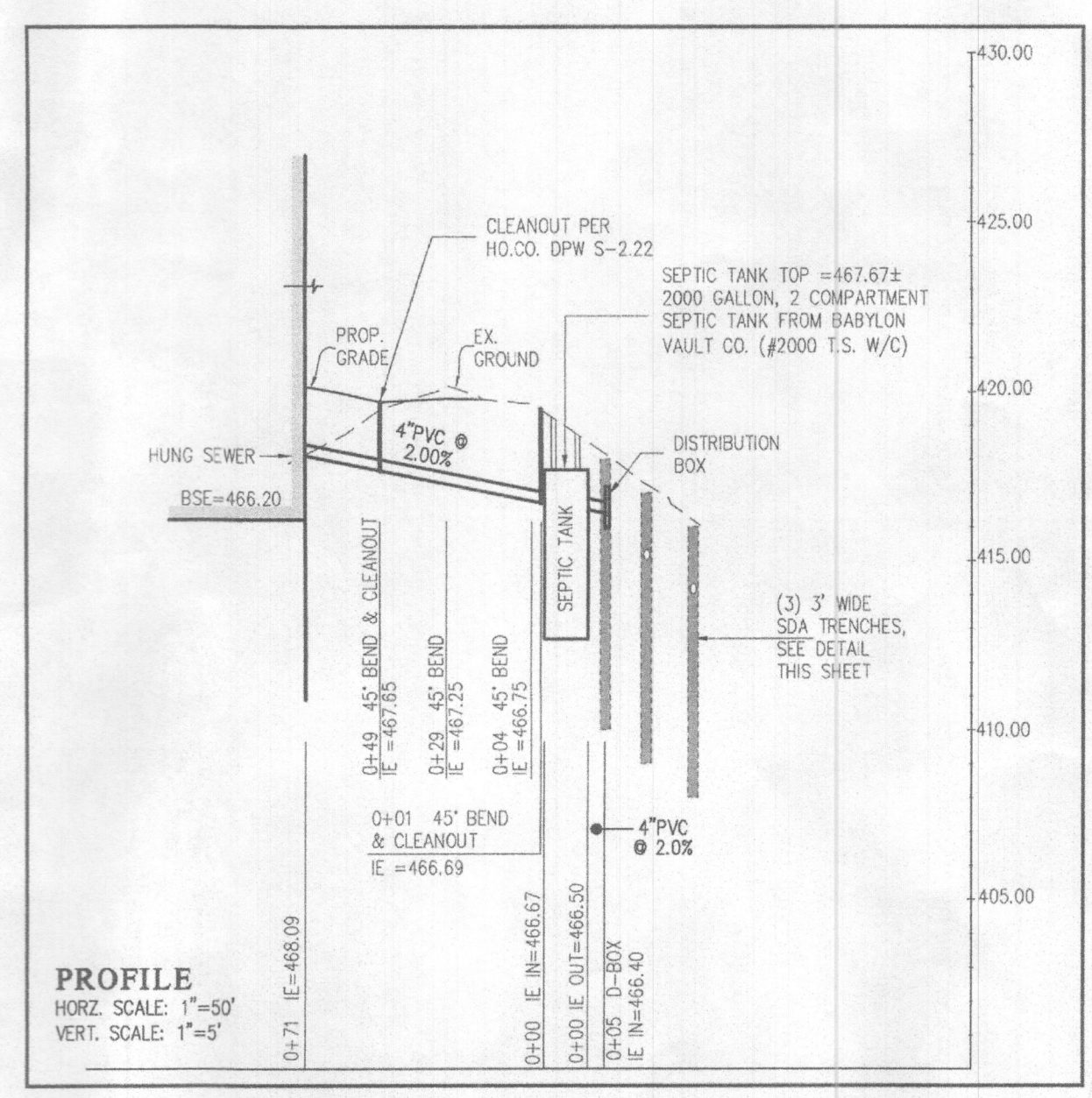
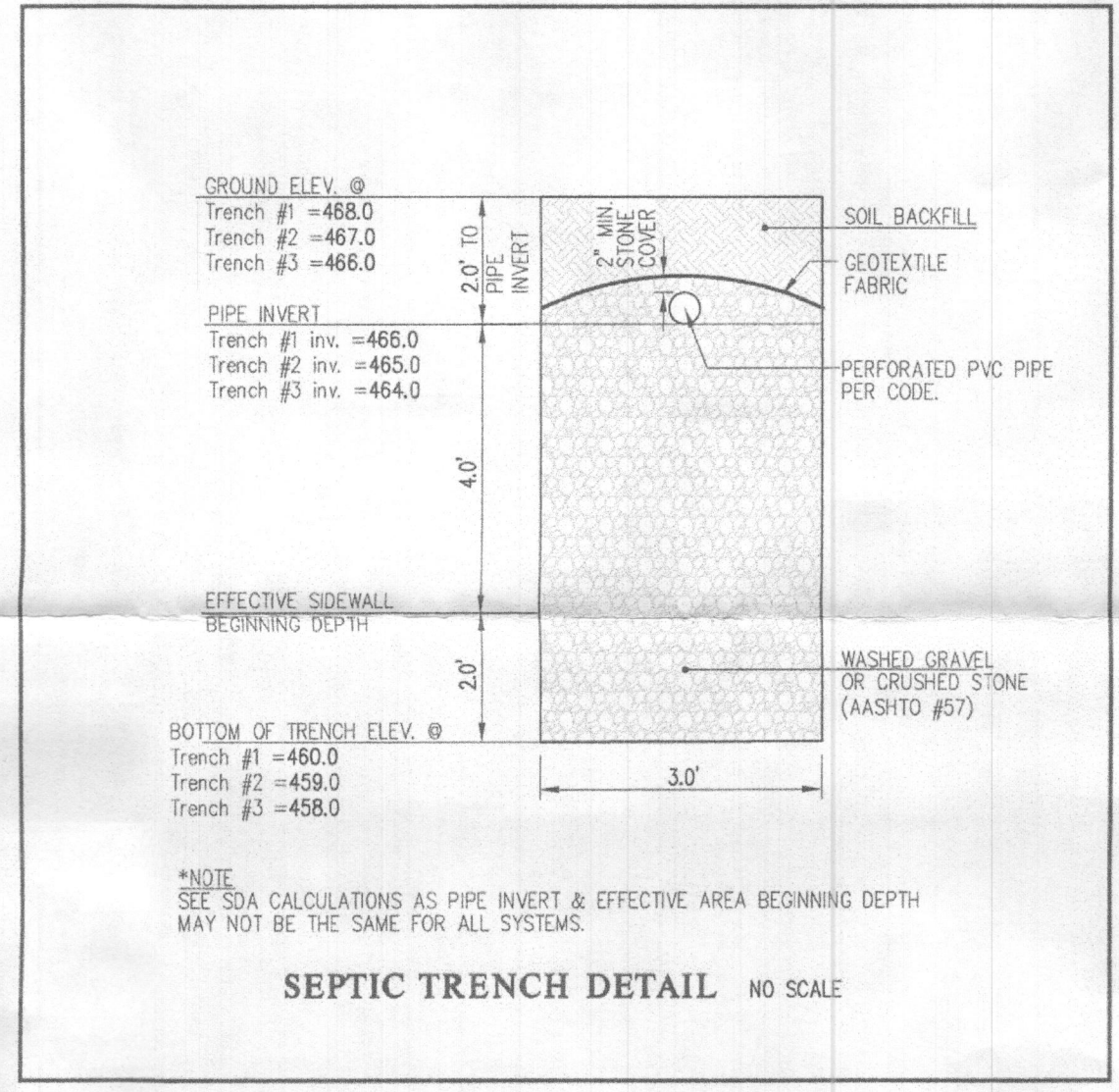
BENCHMARKS

34GC	ELEV. 482.873	N = 554,882.960	E = 1,314,248.668
34GD	ELEV. 465.288	N = 553,733.762	E = 1,313,736.594



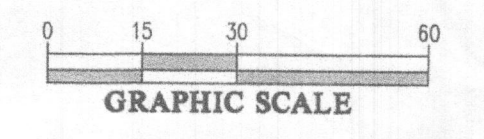
SDA TRENCH SIZE CALCULATIONS

Crawford Subdivision (Mill Creek)	Lot 4		
System Input Information	Initial System	Replac'm't System No.1	Replac'm't System No.2
Application Rate	1.2	0.8	1.2
Effective area beginning depth	6.0	5.5	6.5
Effective area maximum bottom depth	8.0	8.0	8.0
Number of Bedrooms	6	6	6
Design flow at 150 gal./day/bedroom	900	900	900
Absorption Trench Calculations			
Drainfield area required (Design flow/application rate)	750 s.f.	1,125 s.f.	750 s.f.
Effluent pipe depth to invert (cannot exceed 4'; if < 2', then field run topo at 1-ft. interval is required)	2.0	4.0	4.0
Effective sidewall depth "D" = depth between the effective beginning depth or pipe depth (whichever is deeper) and maximum trench bottom	2.0	2.5	1.5
Trench Width "W" (2 or 3 feet)	3.0	3.0	3.0
Sidewall Reduction Percent = (W+2)/(W+1+2D)	62.50%	55.56%	71.43%
Linear feet of trench required (drainfield area x sidewall reduction)/W	156.3	208.3	178.6
Trench Layout Information			
Number of trenches to use	3	4	4
Min. length (linear feet)	52.1	52.1	44.7
Total (linear feet)	156.3	208.4	178.8
Minimum Trench Spacing: For trenches with no sidewall credit the spacing is 6' for a 2' wide trench and 9' for a 3' wide trench (measured edge to edge). All trenches utilizing sidewall reduction credit must be spaced a min. of 10' for effective sidewall not over 3.5'; if > 3.5', then spacing formula is 2D+W up to a maximum of 38'.	10.0	10.0	10.0
Approx. width of absorption Area	29 ft.		
Approx. drainfield Area (sq. feet)	1,511		



- 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 EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVERS WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE WELL (TAG #HO-17-0101) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

Approved Septic System Plan
Howard County Health Department
Mark Osamb *Signature* 1/23/19 *Date*



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3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1620 | DC&VA: 301-986-2524 | FAX: 301-421-4188

DESIGNED BY:	MBT				
DRAWN BY:	KLP				
CHECKED BY:	KCC				
DATE	REVISION	BY	APP'R.		

PREPARED FOR:
NVR INC.
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
PH: 410-379-5956

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS 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. 12879.
EXPIRATION DATE: MAY 28, 2020
1/23/19

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

CRAWFORD SUBDIVISION
LOT 4 (13822 MILL CREEK COURT)
PLAT No. 24600-24607

ELECTION DISTRICT No. 5

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=30'	RR-DEO	17071
DATE	TAX MAP - GRID	SHEET
JAN. 2019	34&39-19&6	1 OF 1