

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: 12/23/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 546500
 APPROVAL DATE: 01/06/2020 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 5055 Gaither's Chance Drive

SUBDIVISION: Gaither's Chance LOT: 12 TAX ID: 05-598958

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

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: 301-762-9511

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

PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</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: R Bricker ISSUE DATE: 12/23/19 EXPIRATION DATE: 12/23/20

- 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.**

270189270189

NOT TO SCALE

SEE ATTACHED
AS BUILT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	2'
NUMBER OF TRENCHES 2		
TOTAL LENGTH 104 F		
ABSORPTION AREA 312 SF		
DISTRIBUTION BOX LEVEL SPEED		
DISTRIBUTION BOX BAFFLE YES		
DISTRIBUTION BOX PORT YES		

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER BABYLON

CAPACITY 2000 GAL

SEAM LOC TOP

TANK LID DEPTH 2' (incl) - 1' (exc)

BAFFLES YES

BAFFLE FILTER -

MANHOLE LOC FRONT/BACK

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 10/07/2019

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 _____

12/26/2019 TANK, SDA, TRENCHES STAKED. CONTOUR CONFIRMED.
SHE HAS A LOT OF FALL. OK TO START. (P)

INSTALLATION: 01/02/2020 TANK SET. TRENCH PARTIAL. COLLAPSE IN UPPER SIDE WALL OF TRENCH IN CENTER (~24' FROM PROXIMAL END OF TRENCH). CORRECT FLUP BELL IMPEDANCE OF PERF LIGHTWEIGHT. OK TO CLOSE FOR RAIN.
01/06/2020 LOWER TRENCH COMPLETED. D BOX LEVELED W/ SPEED LEVELS. IMPEDANCE IN DRAINFIELD NOT FIXED. OK PER KHW. (P)

FINAL INSPECTOR

DATE OF APPROVAL

01/06/2020

FILE INQUIRY NOTES

Marshall Property Subdivision

DATE

RESULTS OF REVIEW FOR FILE

(5027 Ten Oaks Road)

ANY LOT

Design Septic System

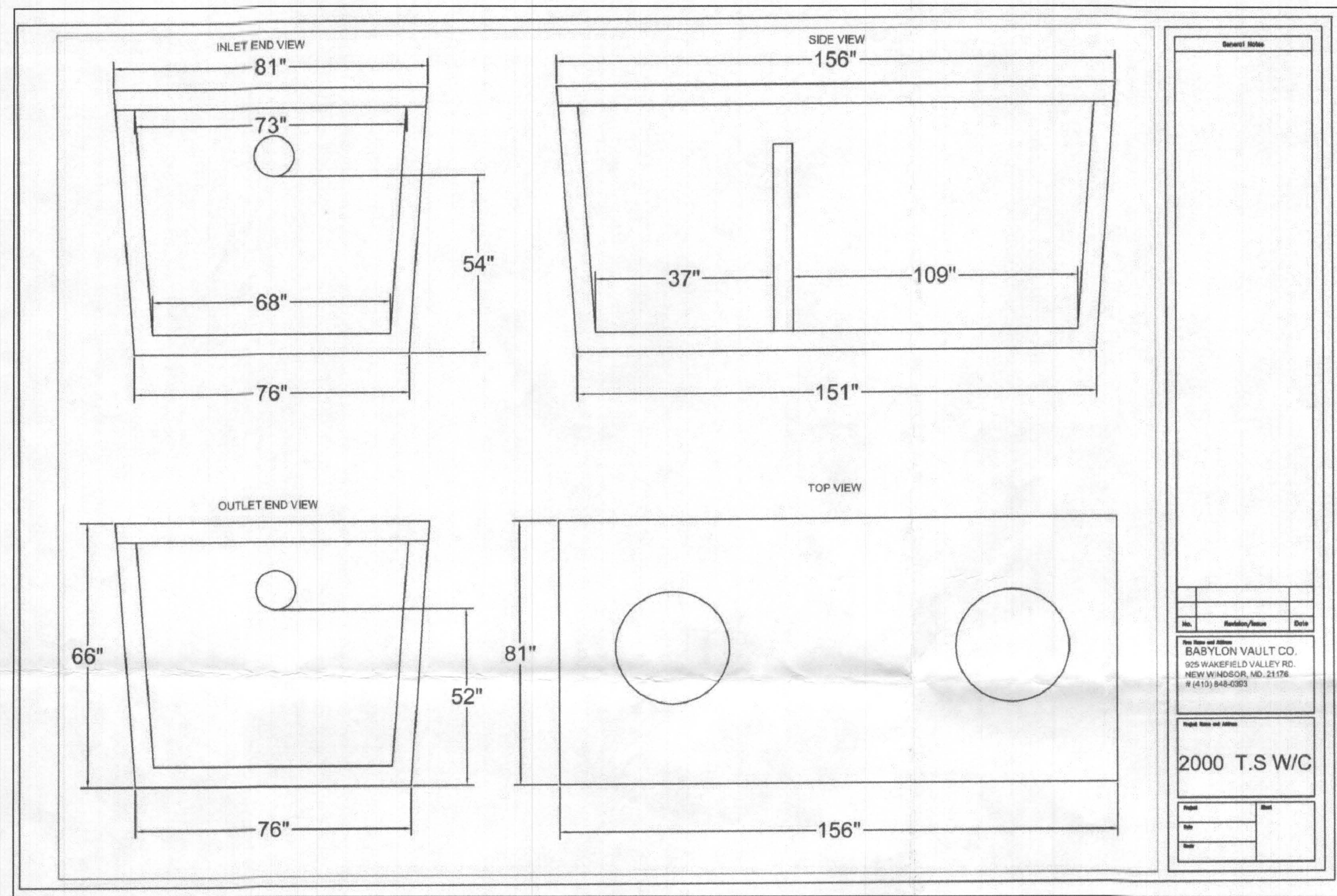
Distribution Trenches

as shallow as possible

AND still have at least

3 drain fields in SDA.

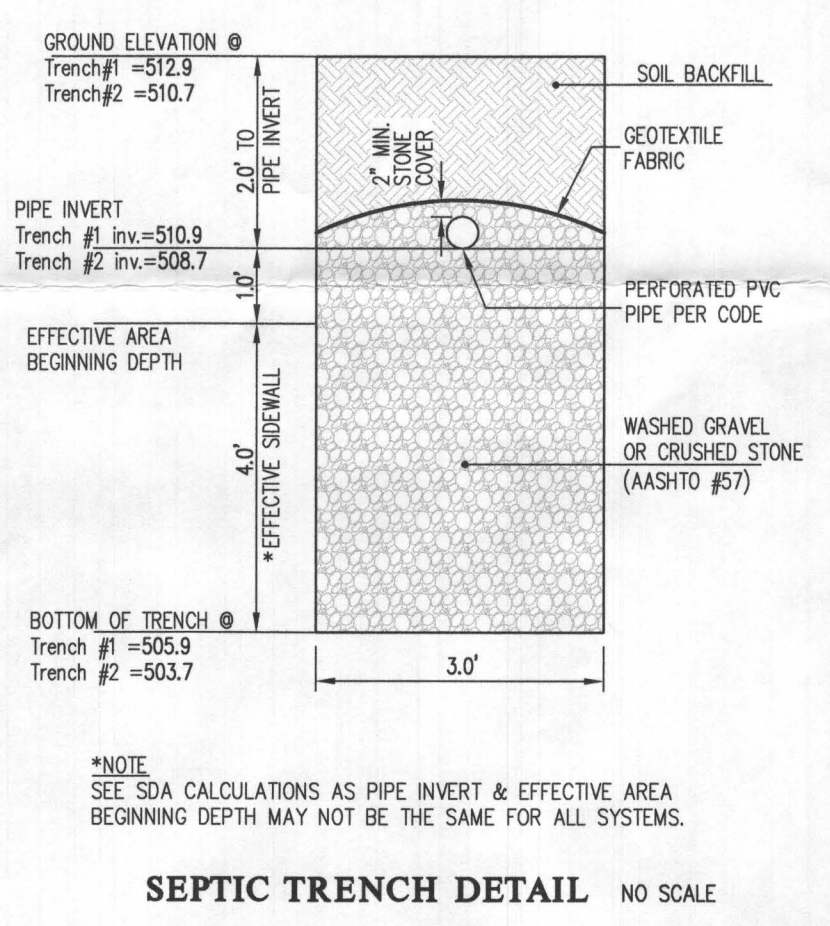
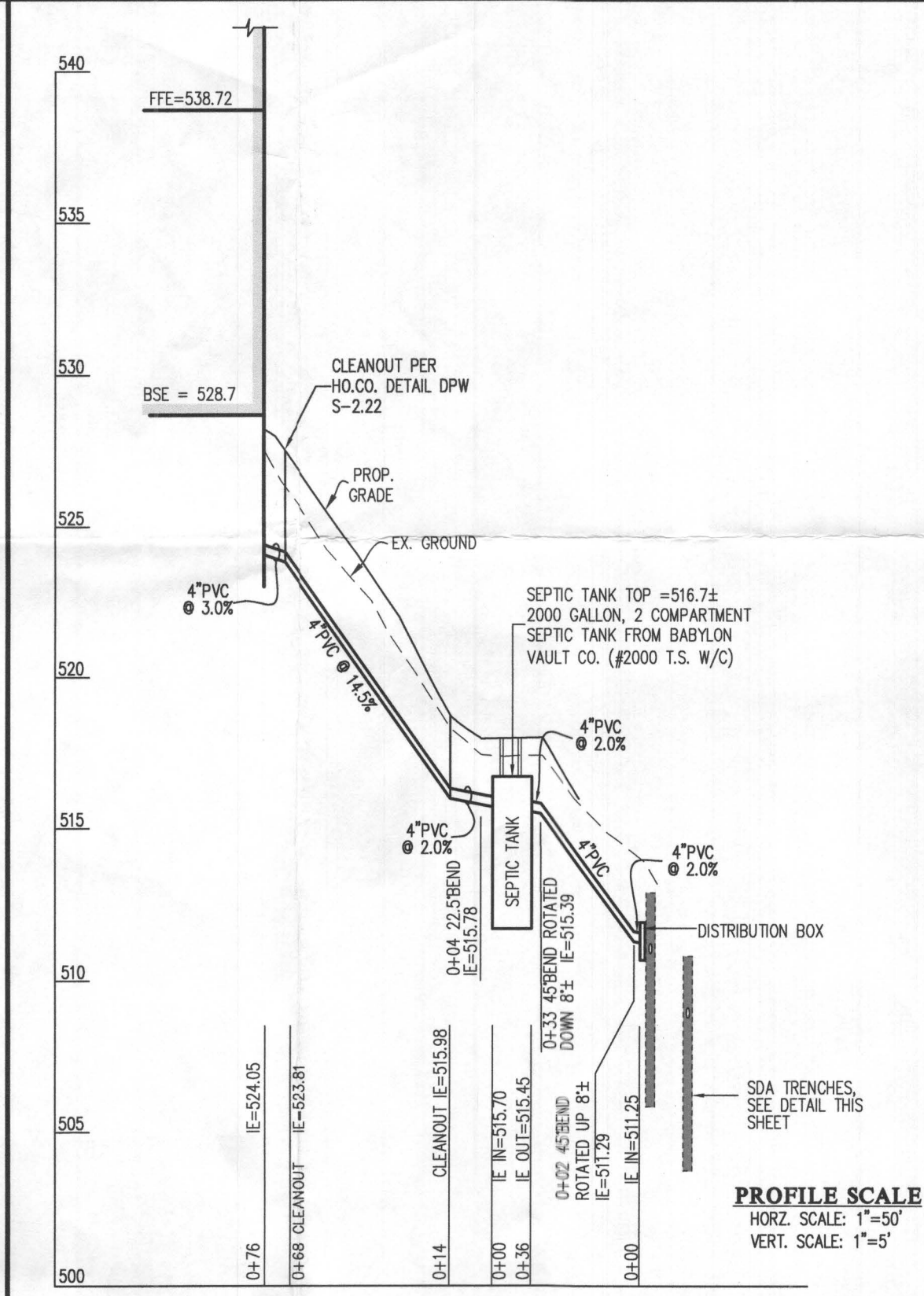
req per Bert



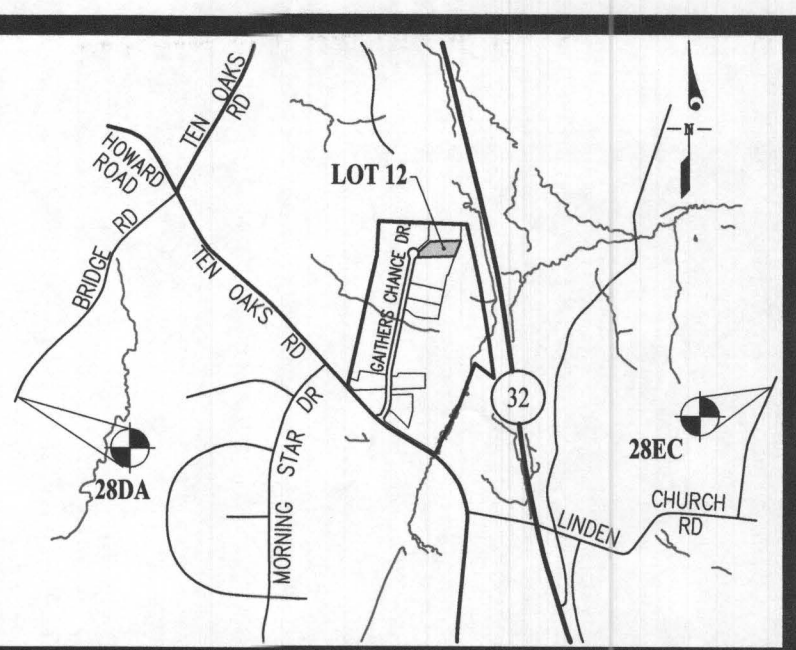
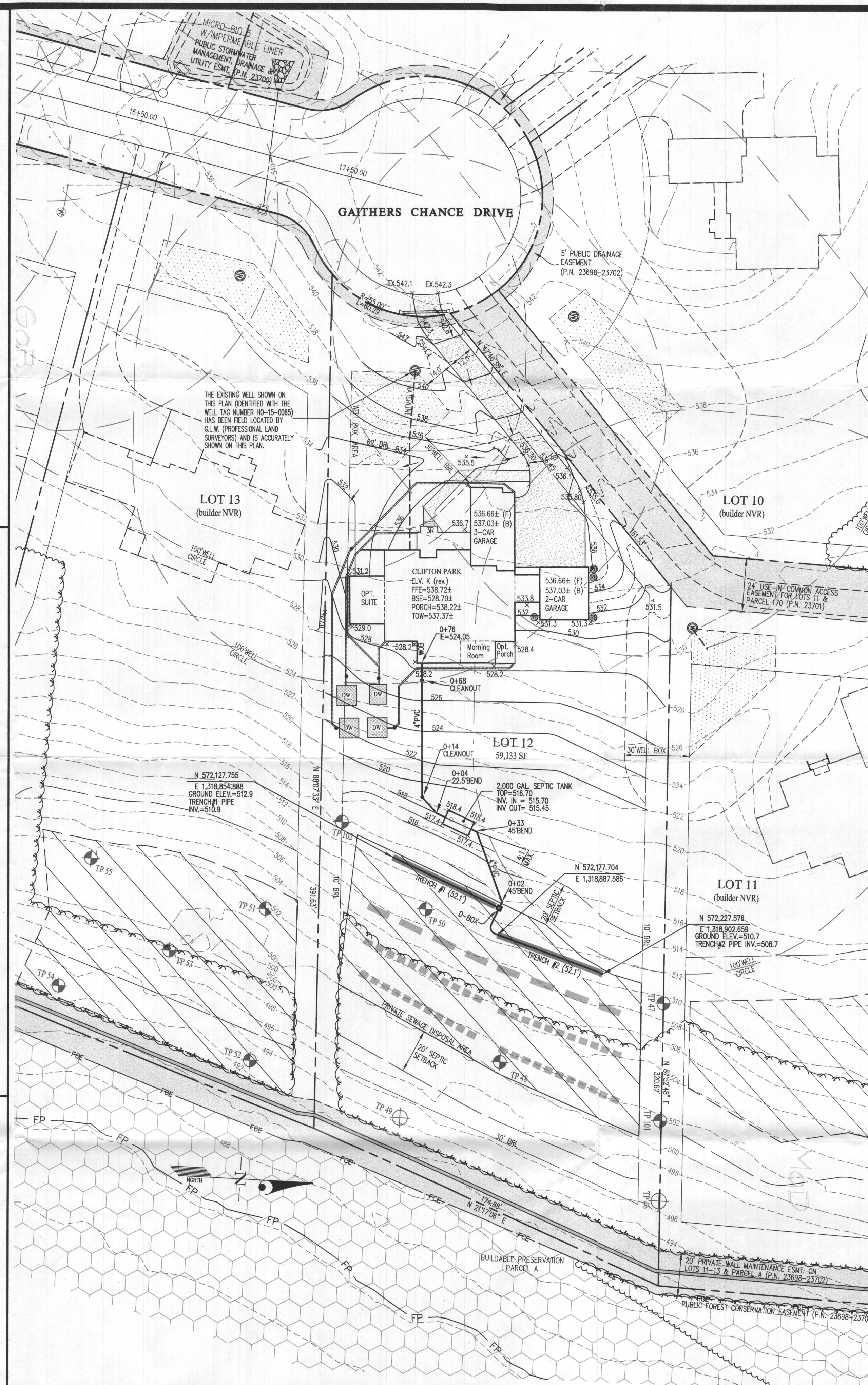
No.	Quantity	Notes
1	1	2000 T.S.W/C

SDA TRENCH SIZE CALCULATIONS

Gaither's Chance	Lot # 12		
System Input Information	Initial System	Replacem't System No.1	Replacem't System No.2
Application Rate	1.2	1.2	0.8
Effective area beginning depth	3.0	3.0	5.0
Effective area maximum bottom depth	7.0	7.0	7.5
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	750	1125
Effluent pipe depth to invert	3, but use 2	3, but use 2	4, but use 2
Effective sidewall depth "D" (Depth between the effective beginning depth or pipe depth (which ever is deeper) and maximum trench bottom.)	4	4	2.5
Trench Width "W" (2 or 3 feet)	3	3	3
Sidewall Reduction Percent = $(W-2)/(W+1+2D)$	41.67%	41.67%	55.56%
Linear feet of trench required = (drainfield area x sidewall reduction)/W	104.17	104.17	208.33
Trench Layout Information			
Approximate length available on contour & not exceeding 100-ft	100	100	100
Number of trenches to use	2	2	3
Min. length (linear feet)	52.1	52.1	69.5
Total (linear feet)	104.2	104.2	208.5
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 18'.	11	11	10



SEPTIC TRENCH DETAIL NO SCALE



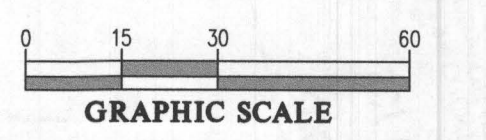
BENCHMARKS

Point	Elev.	N	E
28DA	564.382	570,624.996	1,314,434.172
28EC		570,757.386	1,322,274.727

- LEGEND**
- 600 EXISTING CONTOUR
 - 600 PROPOSED CONTOUR
 - FFE FIRST FLOOR ELEVATION
 - TOW TOP OF FOUNDATION WALL
 - BSE BASEMENT SLAB ELEVATION
 - PRIVATE SEWAGE DISPOSAL AREA
 - EXISTING WELL LOCATION
 - WELL BOX AREA
 - TP # PERCOLATION TEST HOLES (PASSED)
 - TP # PERCOLATION TEST HOLES (FAILED)
 - INITIAL SYSTEM 3' WIDE TRENCH
 - FIRST REPLACEMENT SYSTEM 3' WIDE TRENCH
 - SECOND REPLACEMENT SYSTEM 3' WIDE TRENCH

- 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 COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - THE EXISTING WELL (TAG #15-0065) HAS BEEN FIELD LOCATED BY G.L.W. (PROFESSIONAL LAND SURVEYORS) AND IS ACCURATELY SHOWN ON THIS PLAN.
 - 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
 2000-gal Septic Tank
 to Gravity Drainfield
 for 6-Bedroom SFD
 Builder Signature: [Signature] Date: 10/02/2019



GLW
 PLANNING | ENGINEERING | SURVEYING
 3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
 PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY:	DATE	REVISION	BY	APPR.
MBT				
DRAWN BY:				
KLP				
CHECKED BY:				
OKG				

PREPARED FOR:
 NVR INC
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21045
 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. 12875.
 EXPIRATION DATE: MAY 26, 2020
 10/2/19

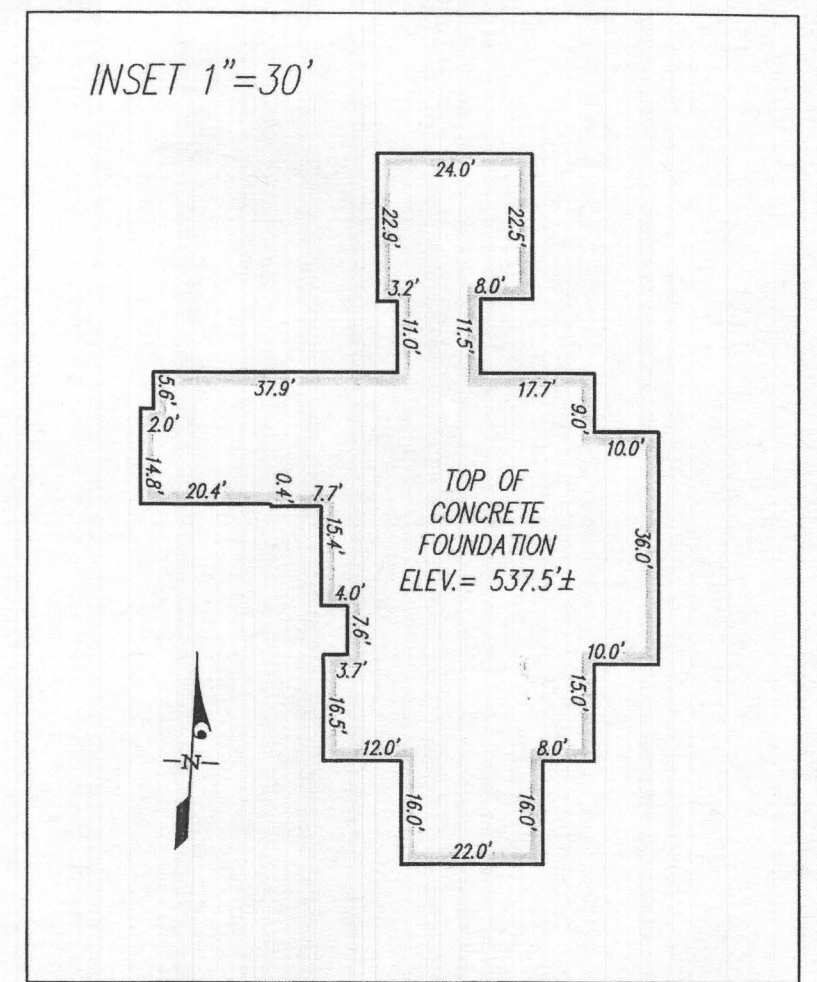
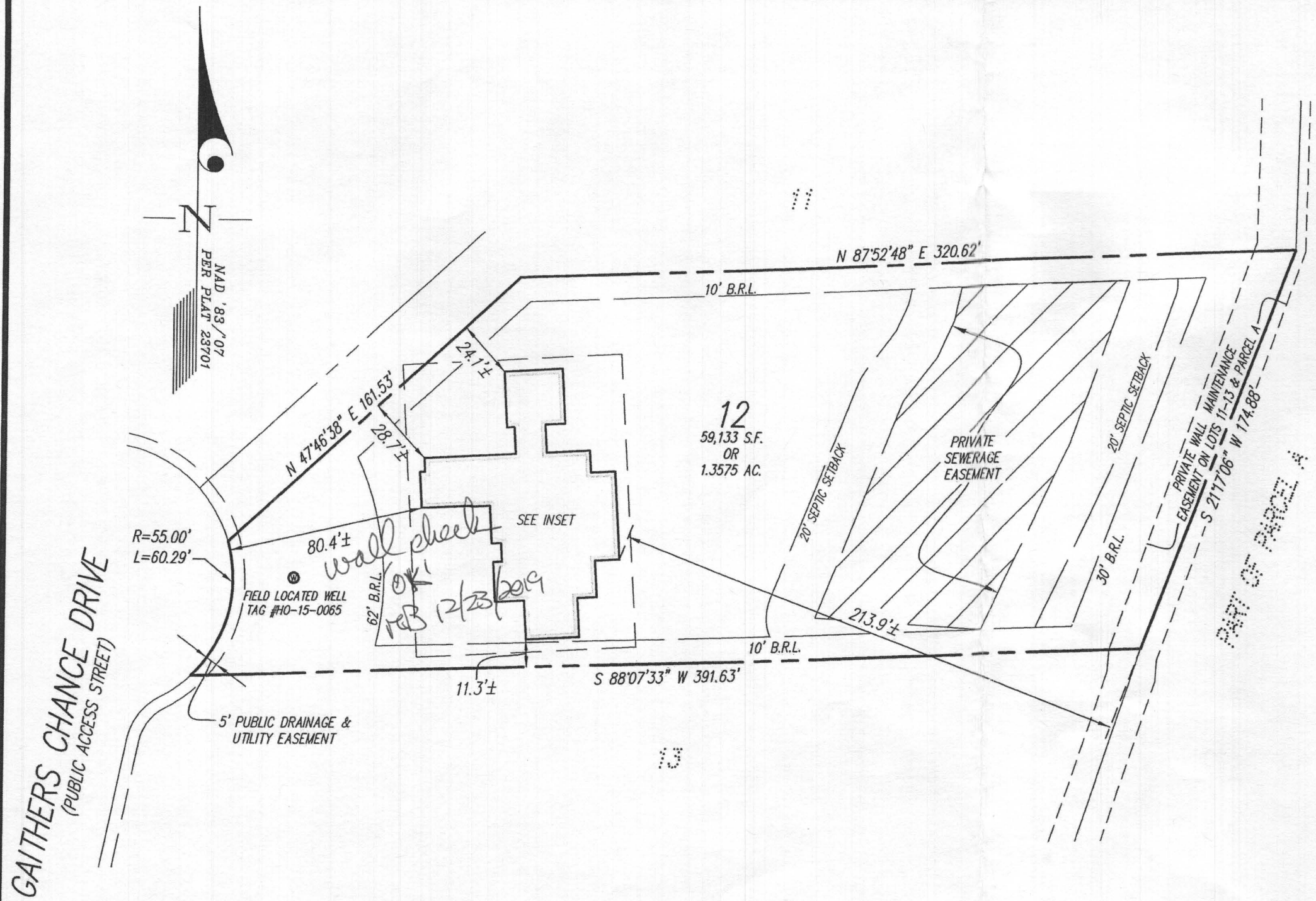
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
GAITHER'S CHANCE
 LOT 12 (5055 Gaither's Chance Drive)
 PLAT No. 23699
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 30'	RR-DEO	13070
DATE	TAX MAP - GRID	SHEET
OCT. 2019	28-8,9,14&15	1 OF 1

NOTES:
 THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS-OF-WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED. THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBER 24027C0130D, EFFECTIVE DATE NOVEMBER 6, 2013.

BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON PER PLOT/SEDIMENT CONTROL PLAN.
 SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ± 0.1 FOOT.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY TO:
 'NVR, INC.;

THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF,
 THE POSITION OF THE ABOVE REFERENCED BUILDING FOUNDATION
 HAS BEEN ESTABLISHED BY ACCEPTED FIELD PRACTICES.

[Signature] 12/10/2019
 For Gutschick, Little and Weber, P.A. :
 Thomas C. O'Connor, Jr.,
 Professional Land Surveyor, No. 10954 (EXP. DATE: 07/03/2020)

THIS WALLCHECK IS VALID ONLY WITH AN ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE SURVEYOR.

WALLCHECK
 (SPECIAL PURPOSE SURVEY)

GAITHER'S CHANCE

LOT 12

5055 GAITHERS CHANCE DRIVE

HOWARD COUNTY, MARYLAND

DATE OF LATEST FIELD WORK: 12/9/2019	G.L.W. FILE No. 18-065
REFERENCE: PLAT BOOK: N/A	PLAT No. 23701
SCALE: 1"=50'	

S:\survey\drawings\wallcheck\GAITHER'S CHANCE-NV-18065\WCK18065WCK-12.dwg, 12/10/2019 11:44:00 AM, morgamb, 5501_SURVEY (COLOR).pc3, 1:1

