



Howard County  
Health Department

Maura J. Rossman, M.D., Health Officer

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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

RECEIPT DATE: 3/6/2020 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567336-C

APPROVAL DATE: 4-2-20 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 1037 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 13

TAX ID:

03-601

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: janastas@nvrinc.com

OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046

PHONE: (410)379-5956

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: Babylon Vault

PUMP MODEL: n.a.

PUMP SIZE

n.a.

PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>114</u>	INLET DEPTH: <u>2.2</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL THE SHC WITH AT LEAST ONE CLEANOUT. INSTALL DISTRIBUTION SYSTEM AS TWO (2) 57-FT TRENCHES.	

ISSUED BY: R BRICKER

ISSUE DATE: 3/6/2020 EXPIRATION DATE: 3/6/2021

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 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 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

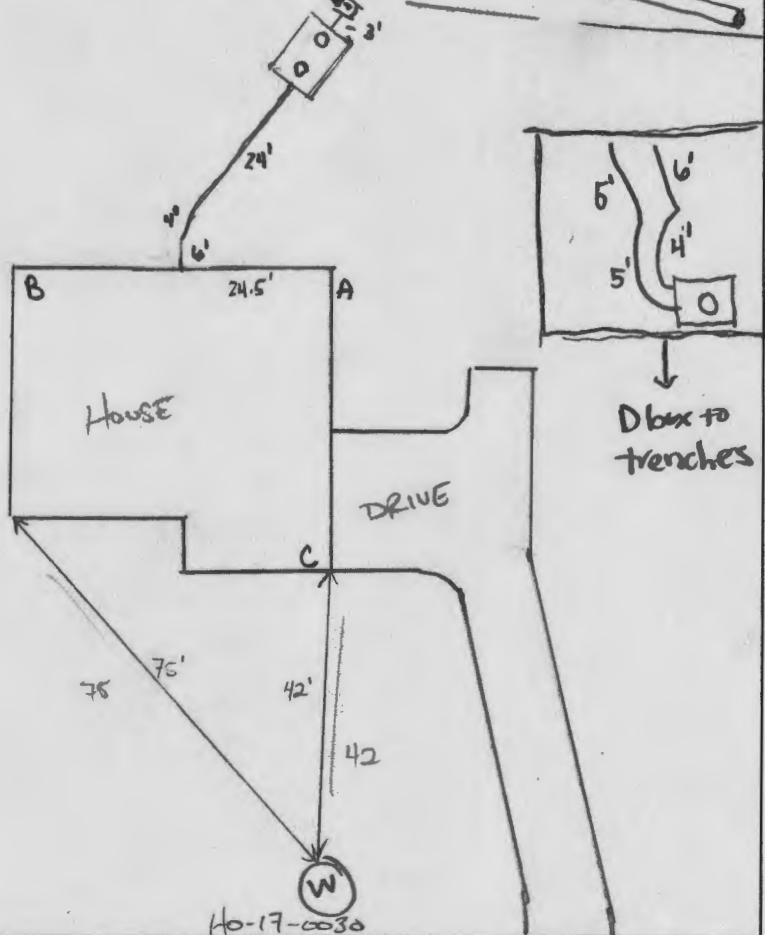
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

279189279189

T2-57' NOT TO SCALE

T2-81' to A  
65' to BT1-57'  
T1-74' to A  
- 114' to B  
- 102' to CROAD NAME  
STEPPING PLACE

## TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.2'	8'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	114'	
ABSORPTION AREA	114' + Sidewall	
DISTRIBUTION BOX LEVEL	yes	
DISTRIBUTION BOX BAFFLE	yes	
DISTRIBUTION BOX PORT	yes	

## PRE-CONSTRUCTION:

## SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babybn
CAPACITY	1500 GAL
SEAM LOC	top
TANK LID DEPTH	18" - 2'
BAFFLES	front / back
BAFFLE FILTER	-
MANHOLE LOC	front / back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	3/4/20

## 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	

03/27/2020 CONFIRMED LAYOUT OF 2x57' TRENCHES ON CONTOUR. TANK AND SDA STAKED. TO REMOVE TREES AT DISTAL END OF TRENCH. OK TO START. (P)

\*INSPECTION LIMITED DUE TO COVID-19 OUTBREAK\*

INSTALLATION: 3/31/2020 call made to contractor 4/2/20. site insp. contractor onsite, SDC complete, tank level, w/ slot, 6" baffle front, 4" baffle back, 2 risers, dbx levelers good, dbx w/ baffle, trenches x 2 both 57' w/ observation pipes at the ends, stone looks good, geotextile fabric in place. OK to backfill. (P)

FINAL INSPECTOR

R. Reppeart

DATE OF APPROVAL

4/2/20

21

20

STEPPING  
PLACE  
PUBLIC ACCESS STREET

EX. WELL  
HO 17-0030

Wall check  
OK  
3/6/2020

R=400.00'  
L=129.18'

64.8'±

7.0'±

13.8'

39.4'

50.0'

POURED  
CONCRETE  
WALLS

47.3'

75.6'±

10' BRL

50' BRL

10' BRL

143.92'

N86°05'11"E

10' BRL

43.3'±

148.62'

S59°21'04"E

10' BRL

158.8'±

30' BRL

133.90'

S03°45'37"W

283.78'

10' BRL

S75°24'33"E

42,056 S.F.  
0.97 AC.

13

14

12

50' R/W

NAD83/1991  
MARYLAND COORDINATE SYSTEM

BUILDABLE  
PRESERVATION  
PARCEL 'A'

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE  
DISPOSAL AREA



FOREST CONSERVATION  
EASEMENT

### SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE. I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 11039, EXPIRATION DATE 09/16/20.



*[Signature]* 2/26/20

TOP OF WALL = 540.9

WALL CHECK  
1037 STEPPING PLACE  
LOT 13  
WALKER MEADOWS  
PLAT NO. 24977

3rd ELECTION DISTRICT HOWARD COUNTY, MD

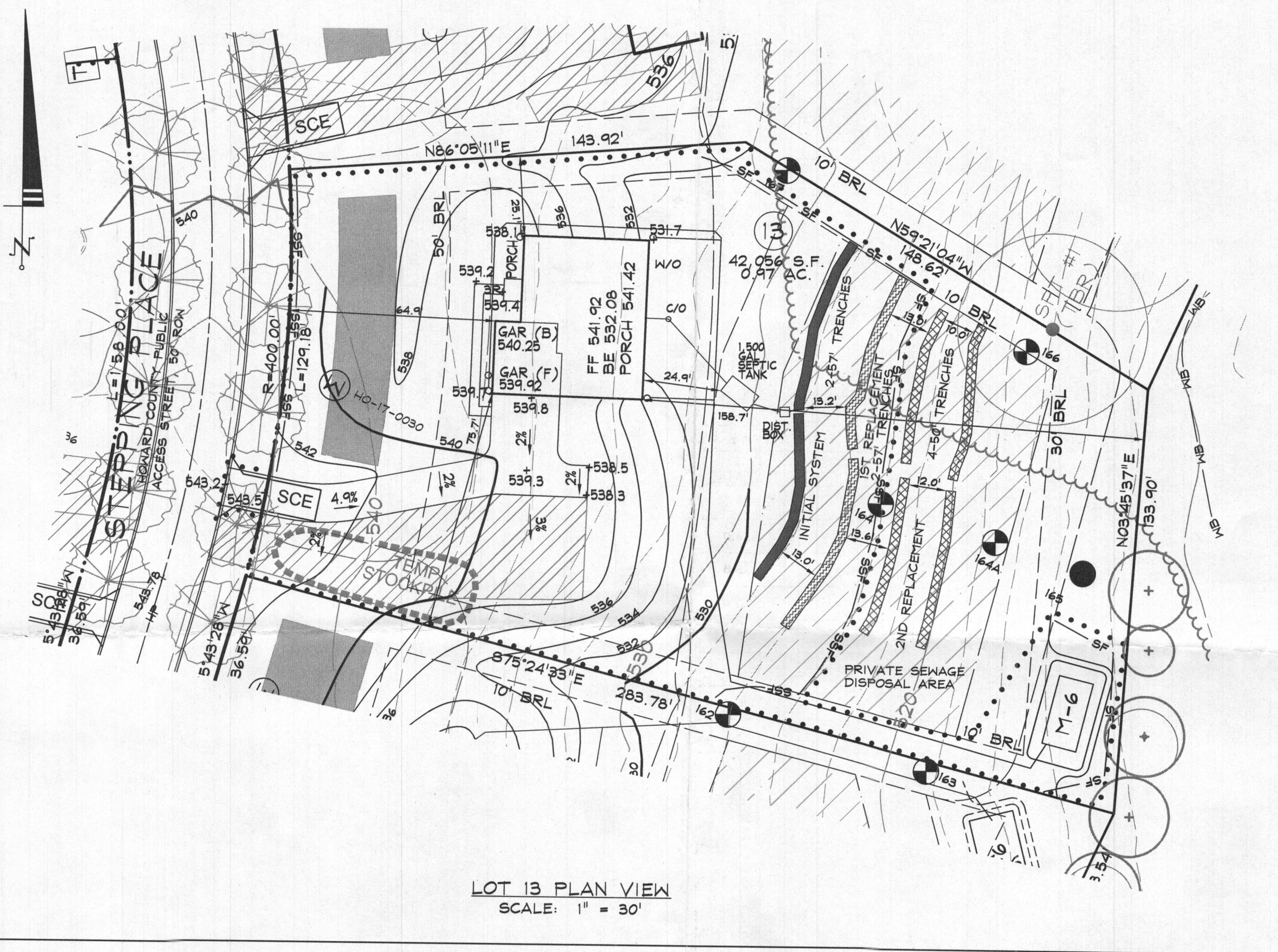
DDC JOB#:	12064.3
DATE:	02/26/2020
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM



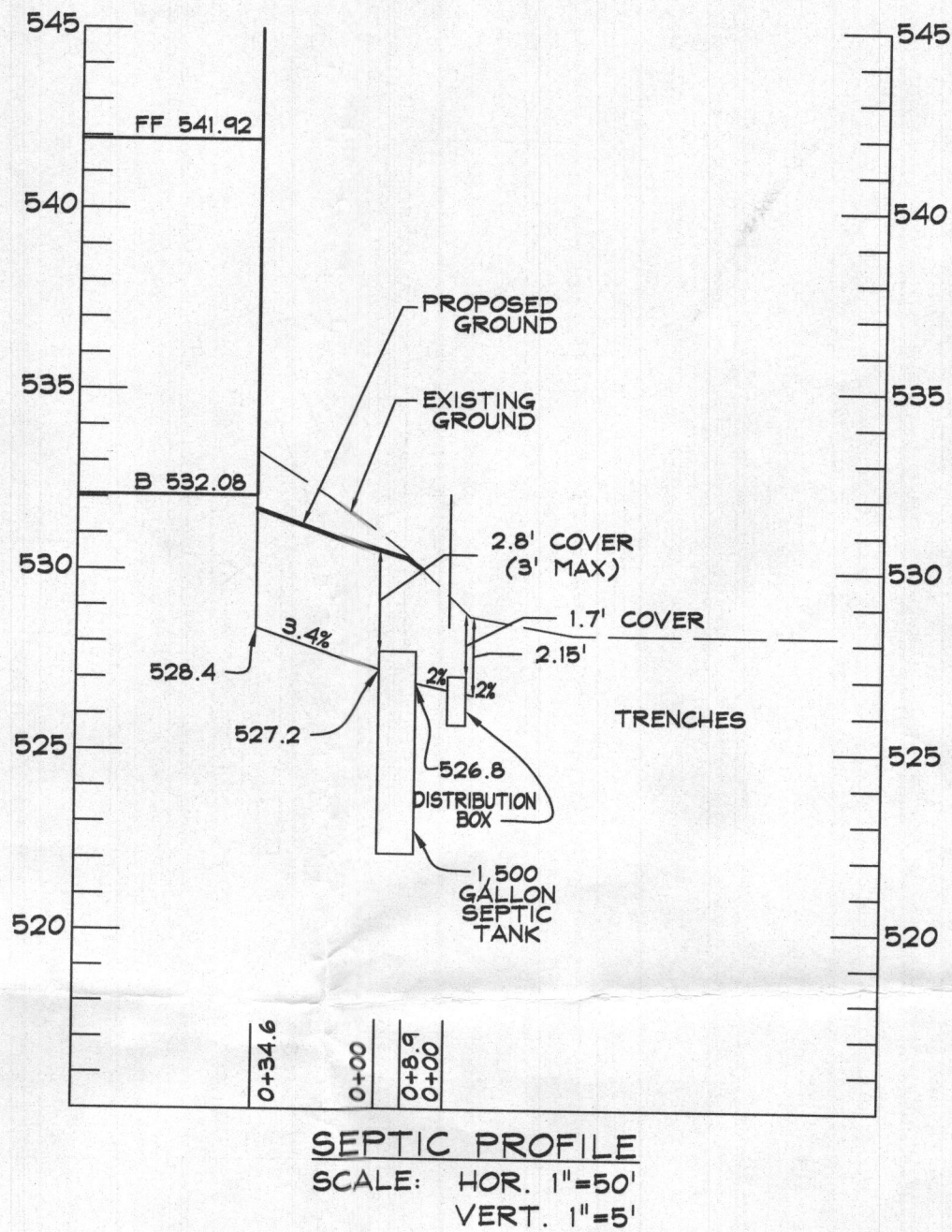
Planners  
Surveyors  
Engineers  
Landscape Architects

192 East Main Street  
Westminster, MD 21157  
410.386.0560  
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DDC@DDCinc.us  
www.DDCinc.us





STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ON-LOT MICRO-BIO-RETENTION (M-6) AND A WIDE GRASS SHOULDER.



NOTES:

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL (TAG #HO-17-0030) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.

LOT 13 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM	2.2'	3'	8'
1ST REPLACEMENT	2'	3'	8'
2ND REPLACEMENT	2'	3'	5'

LOT 13 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	528.2	526.0	520.2
INITIAL SYSTEM TRENCH B	528.2	526.0	520.2
1ST REPLACEMENT TRENCH A	525.8	523.8	517.8
1ST REPLACEMENT TRENCH B	525.8	523.8	517.8
2ND REPLACEMENT TRENCH A	523.0	521.0	518.0
2ND REPLACEMENT TRENCH B	523.0	521.0	518.0
2ND REPLACEMENT TRENCH C	520.0	518.0	515.0
2ND REPLACEMENT TRENCH D	520.0	518.0	515.0

TRENCH LENGTH AND SPACING CALCULATIONS

TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)

INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM  
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF  
USE 3' WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE  
938 SF / 3' WIDTH = 312.67 LF x 0.36 = 113 LF MIN. TRENCH  
- 13' MIN SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM  
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF  
USE 3' WIDE TRENCH W/ 24" OF GRAVEL BELOW PIPE  
938 SF / 3' WIDTH = 312.67 LF x 0.63 = 197 LF MIN. TRENCH  
- 10' MIN SPACING BETWEEN TRENCH EDGES

2 - 57' LONG TRENCHES FOR INITIAL SYSTEM  
2 - 57' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM  
4 - 50' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABERGER AND LANE DATED JUNE, 2014. TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS. HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 25, 2012. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.



Planners  
Surveyors  
Engineers  
Landscape Architects

192 East Main Street  
Westminster, MD 21157  
410.386.0560  
410.386.0564 (Fax)  
DDC@DDCinc.us  
www.DDCinc.us

OWNER:  
ESC WALKER MEADOWS, L.C.  
5074 DORSEY HALL DR., SUITE 205  
ELLICOTT CITY, MD 21042  
410-720-3021

DEVELOPER:  
NV HOMES  
8720 PATUXENT WOODS DRIVE  
COLUMBIA, MD 21046  
410-379-3391

SITE ADDRESS:  
SE RIVER ROAD  
SYKESVILLE, MD 21784

WALKER MEADOWS  
A RESUBDIVISION OF LOT 2 OF THE  
DIEHL PROPERTY (PLAT #6937)  
LOTS I-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE  
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-H  
1037 STEPPING PLACE

LOT 13 ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

5TH COUNCIL DISTRICT  
3RD ELECTION DISTRICT  
HOWARD COUNTY, MD

REVISIONS			
NO.	DESCRIPTION OF CHANGES	DRN.	REV. / DATE

PROFESSIONAL CERTIFICATION  
THEREBY 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. 27020 EXPIRATION DATE: 1/25/20

1/20/20  
DATE

PAUL G. CAVANAUGH  
PROFESSIONAL ENGINEER NO. 27020

DRAWING LEGEND

- • • • • LIMIT OF DISTURBANCE
- SF — SF — PROPOSED SILT FENCE
- SSF — SSF — PROPOSED SUPER SILT FENCE
- SCE STABILIZED CONSTRUCTION ENTRANCE
- T TRANSFORMER
- 175 PERCOLATION TEST HOLE - PASS
- WELL BOX WITH EXISTING WELL
- SEWAGE DISPOSAL AREA
- DRY WELL
- WIDE GRASS SHOULDER
- TEMPORARY STOCKPILE

Approved Septic System Plan  
1520 Yellow Septic Tank to  
Gravity Distribution for 5-bed room SFD  
Rhonda  
1/20/2020  
Date