



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

Facebook: www.facebook.com/hocohealth

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

P 567336

APPROVAL DATE: 3/12/2020 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1041 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 14

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: 4

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>70</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</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) 35-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

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

PRE-CONSTRUCTION:

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

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 _____

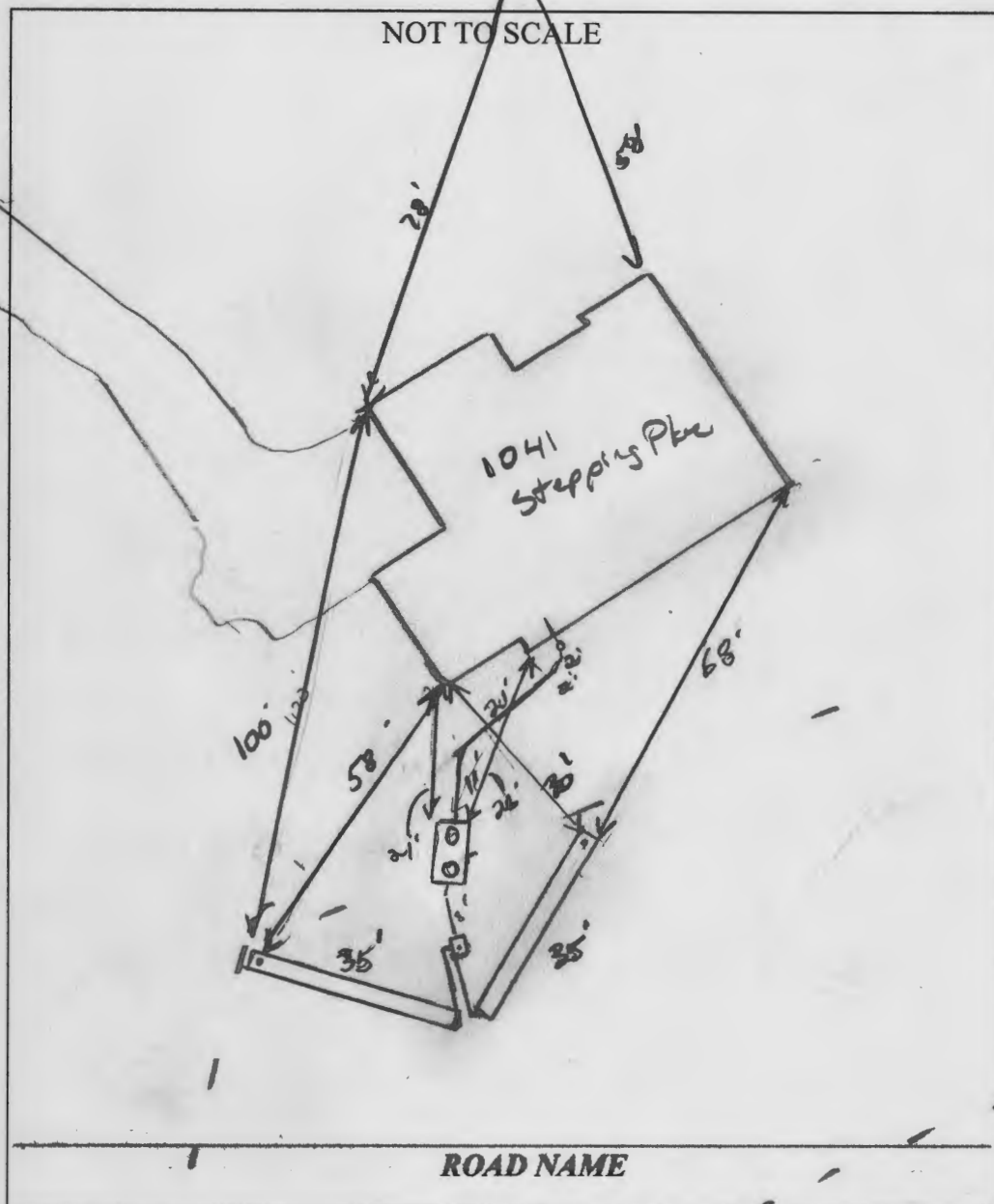
ROAD NAME

INSTALLATION: _____

FINAL INSPECTOR _____ DATE OF APPROVAL _____

HO-17-0031

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	2'
NUMBER OF TRENCHES		2
TOTAL LENGTH		70'
ABSORPTION AREA		210' + SW
DISTRIBUTION BOX LEVEL		100'
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes
 MANUFACTURER Babylor
 CAPACITY 1500 GAL
 SEAM LOC Top
 TANK LID DEPTH 2.5'
 BAFFLES Yes
 BAFFLE FILTER N/A
 MANHOLE LOC Front/Left
 6" PORT LOC None
 WATERTIGHT TEST —
 SLOTTED Yes
 DATE ON LID 2-3-2020

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

PRE-CONSTRUCTION:

3/16/2020 OK to install system without layout. See to cover is

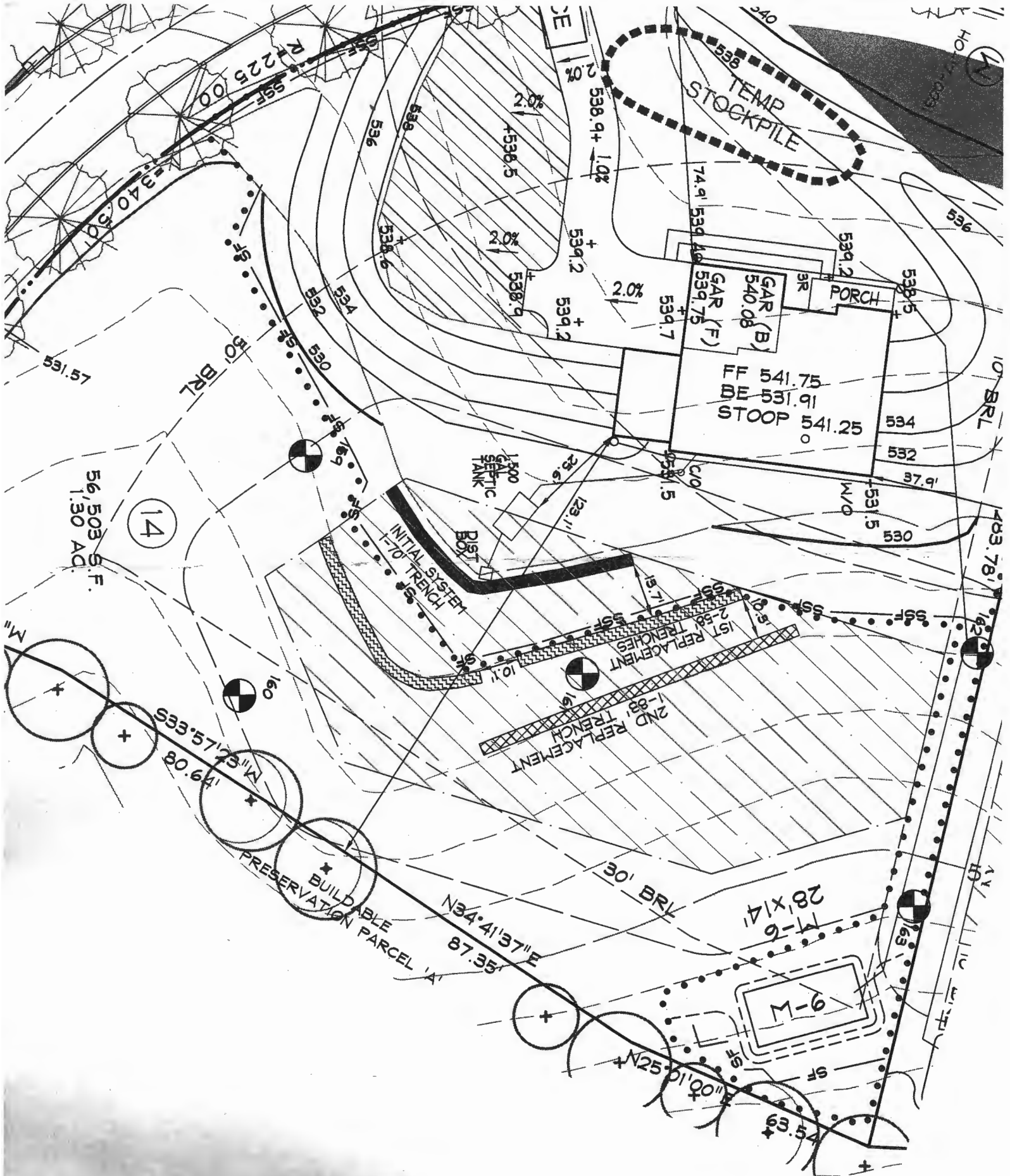
INSTALLATION: 3/17/2020 system complete. Trenches installed per plan.
 OK to cover all work (RM)

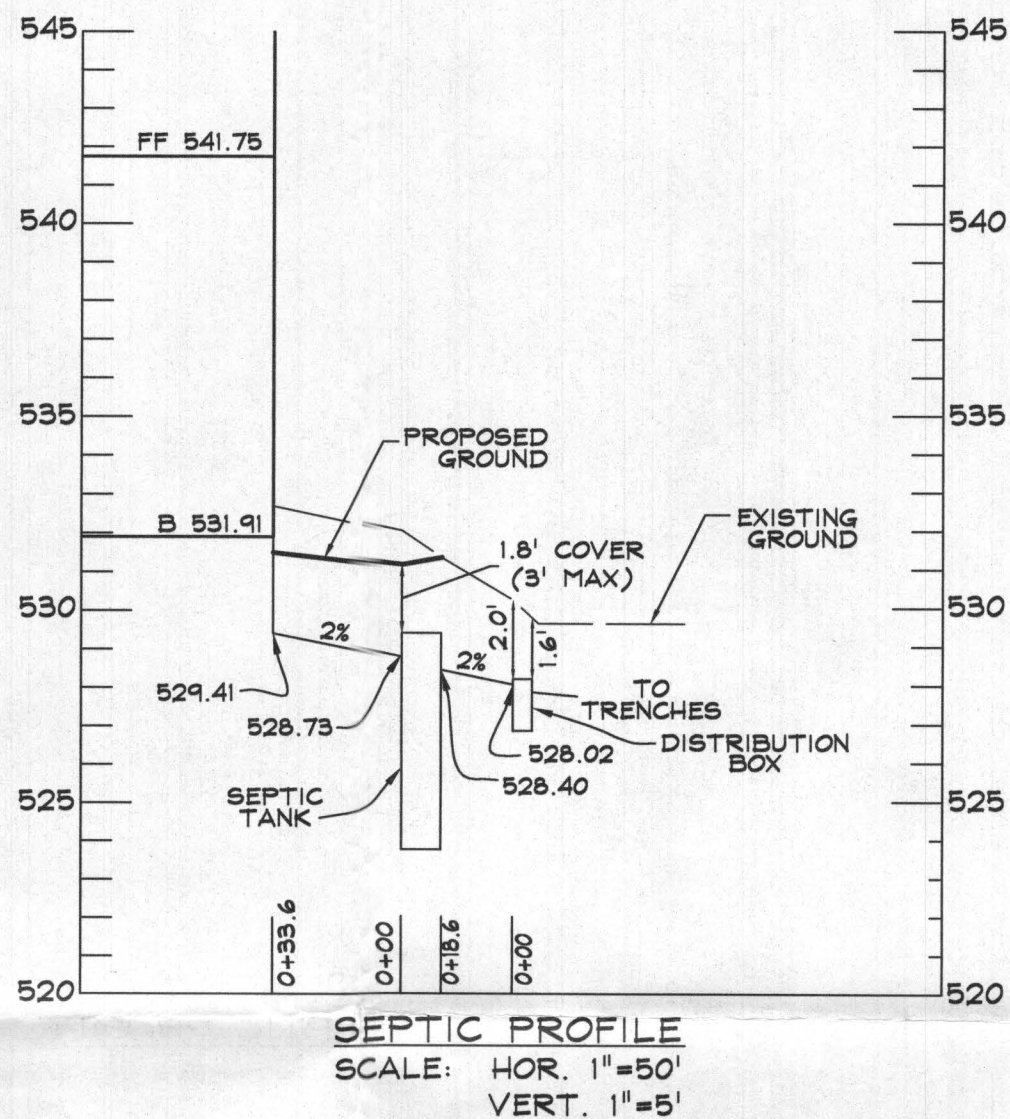
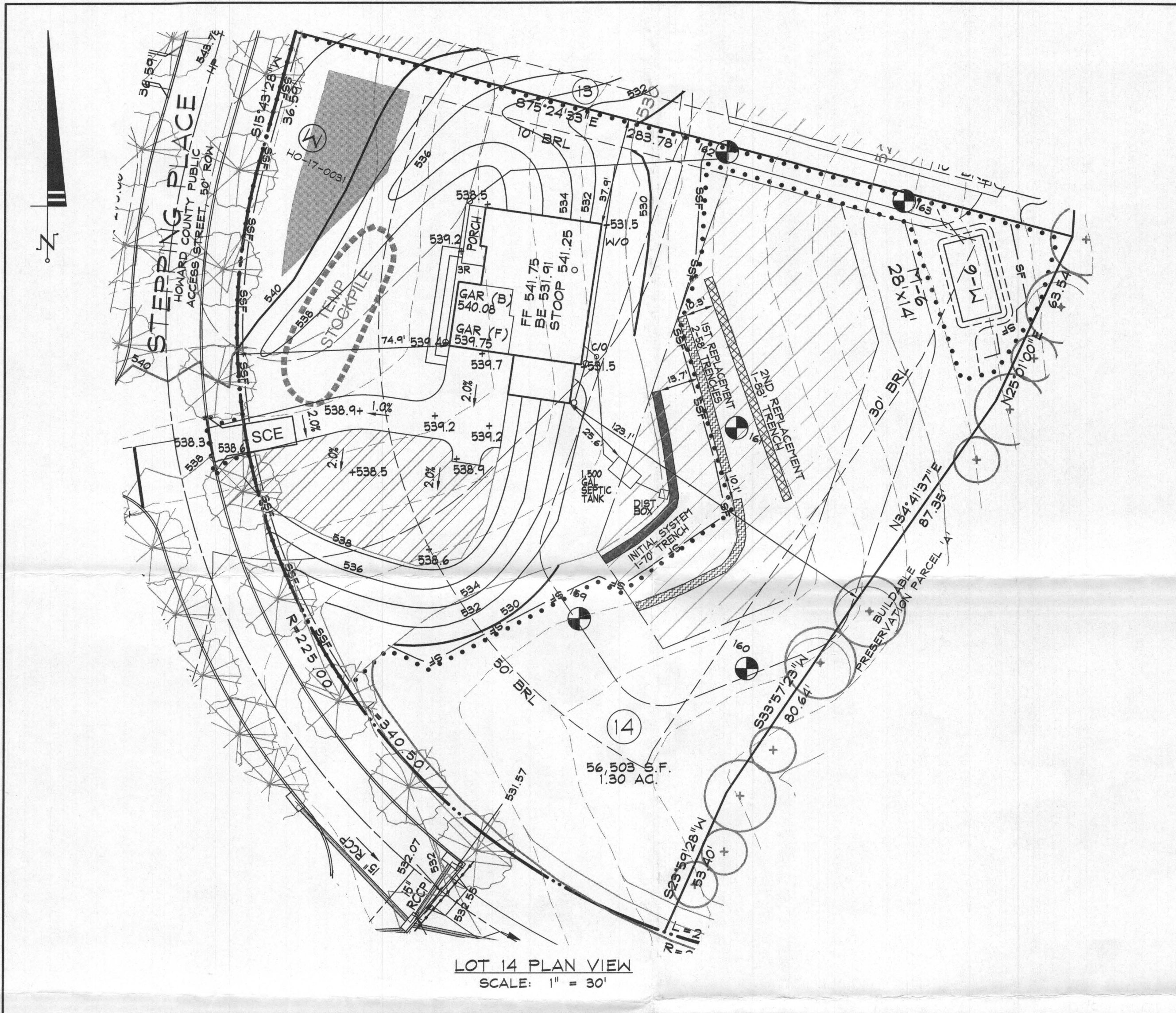
FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

3/17/2020





LOT 14 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	3'	3'	7'
1ST REPLACEMENT TRENCH A	3'	3.5'	7'
1ST REPLACEMENT TRENCH B	3'	3.5'	7'
2ND REPLACEMENT TRENCH A	3'	4'	7'

LOT 14 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	529.6	526.6	522.6
1ST REPLACEMENT TRENCH A	527.8	524.8	520.8
1ST REPLACEMENT TRENCH B	527.8	524.8	520.8
2ND REPLACEMENT TRENCH A	526.2	523.2	519.2

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-17-0031) 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.

TRENCH LENGTH AND SPACING CALCULATIONS

TRENCH DESIGN (4 BDRM x 150 GPD/BDRM = 600 GPD)

INITIAL SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE
500 SF / 3' WIDTH = 167 LF x 0.42 = 70 LF MIN. TRENCH

1ST REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 42" OF GRAVEL BELOW PIPE
750 SF / 3' WIDTH = 250 LF x 0.46 = 115 LF MIN. TRENCH

2ND REPLACEMENT
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH W/ 36" OF GRAVEL BELOW PIPE
500 SF / 3' WIDTH = 167 LF x 0.50 = 83 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

- 1 - 70' LONG TRENCH FOR INITIAL SYSTEM
- 2 - 58' LONG TRENCHES FOR FIRST REPLACEMENT SYSTEM
- 1 - 83' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABARGER 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.



Development Design Consultants

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
410-720-3921

DEVELOPER:
NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-3381

SITE ADDRESS:
SE RIVER ROAD
SKYESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #6437)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1041 STEPPING PLACE

LOT 14 ONSITE SEWAGE
DISPOSAL SYSTEM DESIGN PLAN

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

REVISIONS			
NO.	DESCRIPTION OF CHANGES	DRN.	REV. DATE
CO. FILE #	F-17-045	DES. BY:	LJC
TAX ACC. #	03-601568	DRN. BY:	LJC
TAX MAP:	9	CHK. BY:	PGC
BLOCK / GRID:	6	DATE:	1/20/20
PARCEL #	66	DDC JOB#:	12064.3
ZONE / USE:	RR-DEO	SHEET NUMBER:	
DWG. SCALE:	1" = 30'		1 of 1

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. 27020 EXPIRATION DATE: 12/25/20

1/20/20
DATE

PAUL G. CAVANAUGH
PROFESSIONAL ENGINEER NO. 27020

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

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

EXISTING WELL & ALTERNATE WELL SITES

SEWAGE DISPOSAL AREA

DRY WELL

WIDE GRASS SHOULDER

TEMPORARY STOCKPILE

Approved Septic System
Howard County Health Department
1500 Jai Septic Tank to
41' deep from SF to
1/29/2020
Date
Signature