



Howard County Health Department

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

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

RECEIPT DATE: 10-6-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 572811

APPROVAL DATE: 11/9/20 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1056 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 15

TAX ID:

03-3601573

CONTRACTOR:

SC Backhoe

EMAIL:

CONTRACTOR ADDRESS:

4410 Salem Bottom RD

PHONE:

410-596-3618

PROPERTY OWNER: NVR

EMAIL: janastas@nvrinc.com

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

PHONE: (410)379-5956

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: BABYLON VAULT CO.

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>87</u> | INLET DEPTH: <u>2.0</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 CLEANOUT IN SHC. INSTALL INITIAL SYSTEM AS TWO 40-FT LATERALS WITHIN A CONTINUOUS 87-FT TRENCH | |

ISSUED BY: R BRICKER

ISSUE DATE: 10-30-20

EXPIRATION DATE:

10-6-21

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

* see attached
diagram

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2' BOTTOM 7'
NUMBER OF TRENCHES 1 (CENTER FEED)
TOTAL LENGTH 87 F
ABSORPTION AREA 261 SF
DISTRIBUTION BOX LEVEL SPEED
DISTRIBUTION BOX BAFFLE YES
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL yes
MANUFACTURER Babylion
CAPACITY 1500 GAL
SEAM LOC top
TANK LID DEPTH 2'
BAFFLES YES
BAFFLE FILTER —
MANHOLE LOC front + back
6" PORT LOC —
WATERTIGHT TEST —
SLOTTED YES
DATE ON LID 8-24-20

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 —

PRE-CONSTRUCTION:

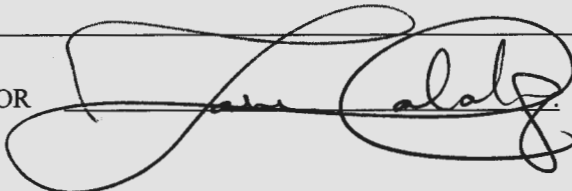
11/4/20 Laid out 1x87' long trench according to plan. There is 2" of fill on upper
fourth of trench near house that will be scraped off. (S)

INSTALLATION: 11/5/2020 TANK, SEWER LINE, AND D BOX SET.

PARTIAL TRENCH INSPECTION. REINSPECT D BOX AND
TRENCHES. (P)

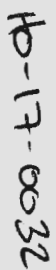
11/6/2020 TRENCHES COMPLETE. D BOX LEVELED W/ SPEED
LEVELS. OK TO BACKFILL. (P)

FINAL INSPECTOR

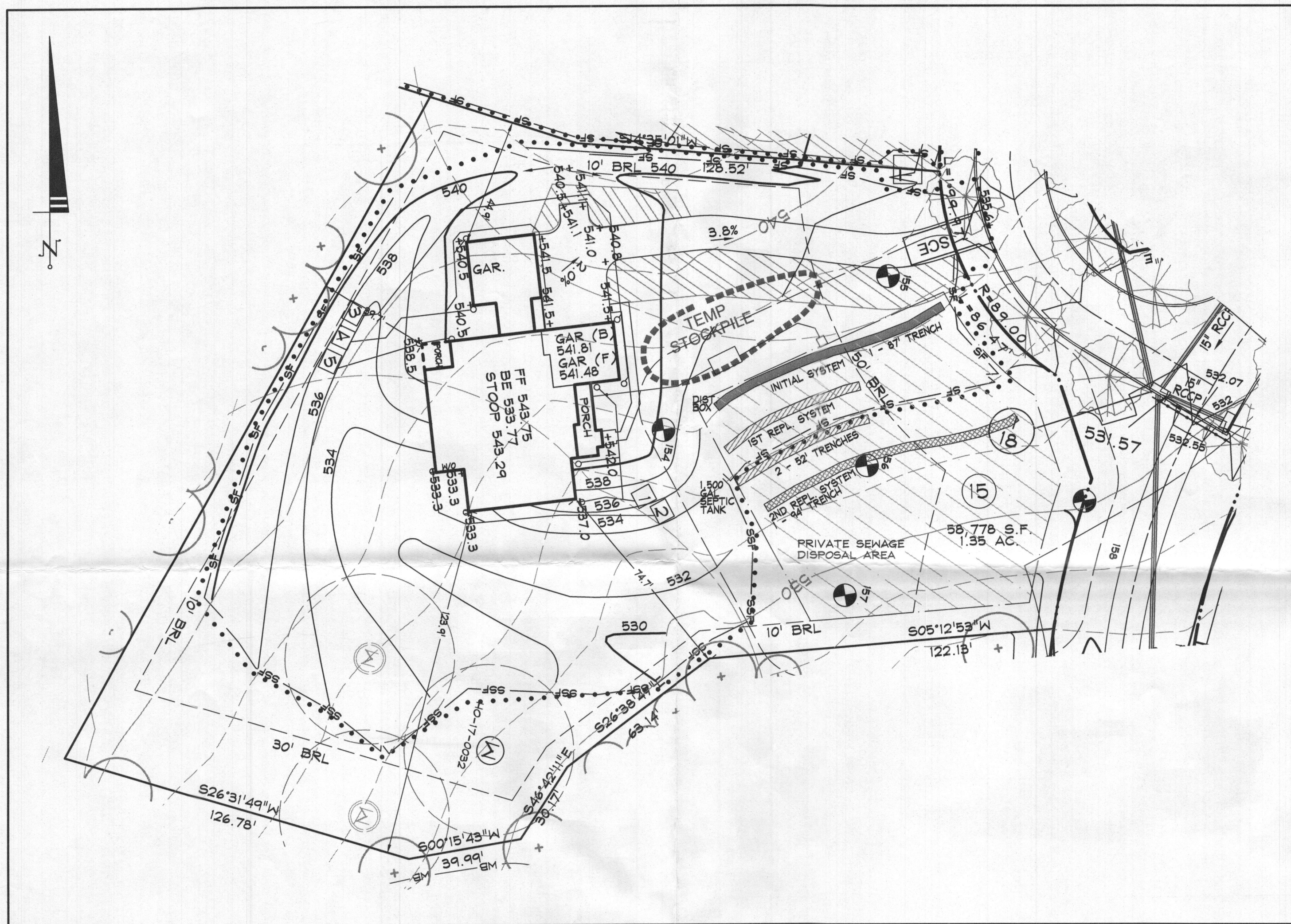


DATE OF APPROVAL 11/09/2020

Stepping Place

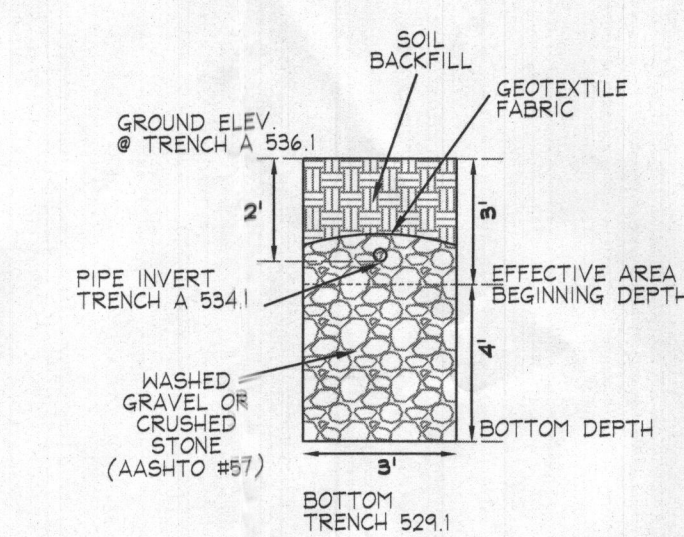


| | |
|-----------|------------|
| DDC JOB#: | 12064.3 |
| DATE: | 09/16/2020 |
| SCALE: | 1"=50' |
| DRN. BY: | CWJ |
| CHK. BY: | JLM |

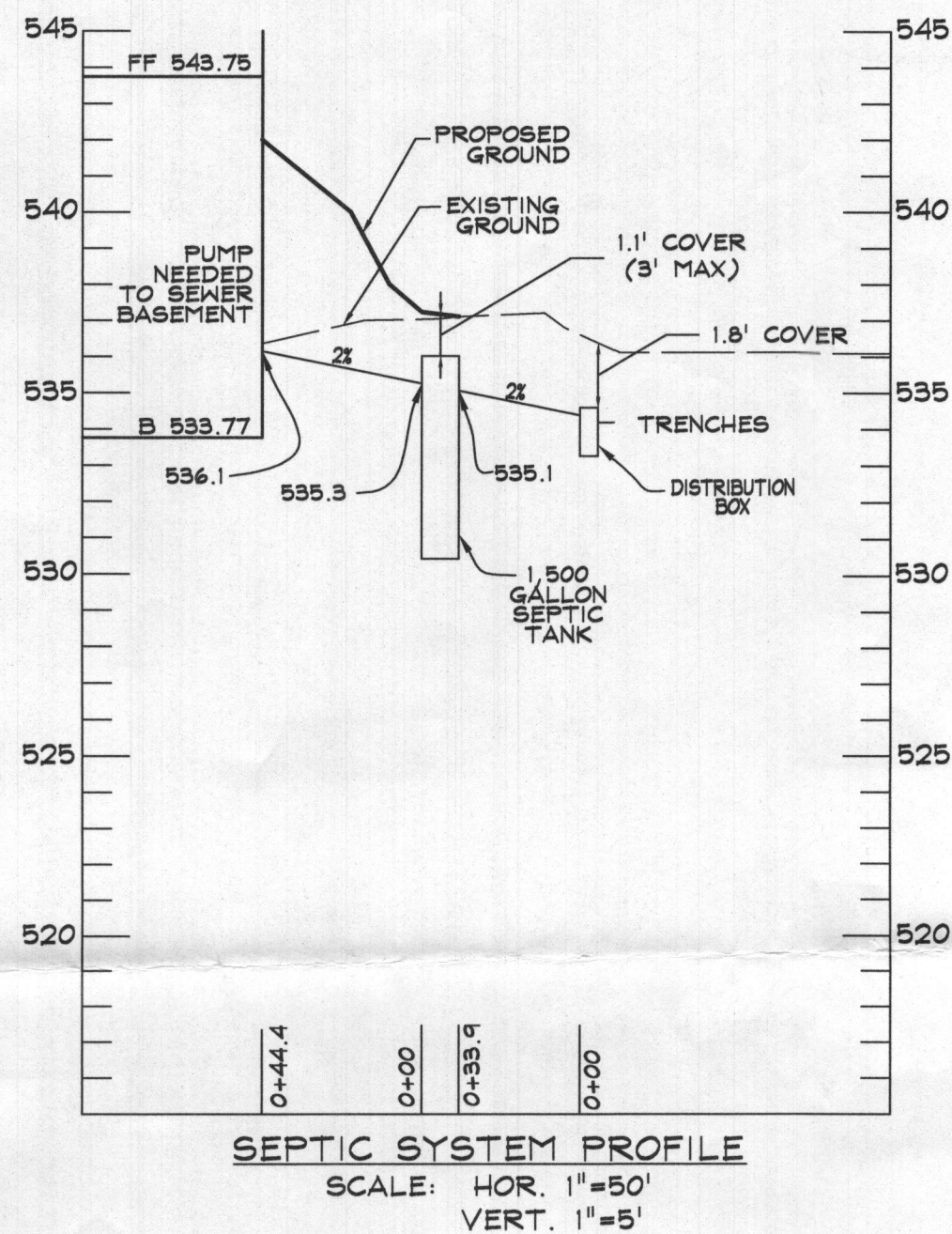


LOT 15 PLAN VIEW
SCALE: 1" = 30'

STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY DRY WELLS AND A WIDE GRASS SHOULDER.



TRENCH DETAIL INITIAL SYSTEM
N.T.S.



SEPTIC SYSTEM PROFILE
SCALE: HOR. 1"=50'
VERT. 1"=5'

| LOT 15 - RELATIVE DEPTHS | | | |
|--------------------------|-------------|--------------------------|-----------------------|
| | PIPE INVERT | EFFECTIVE AREA BEGINNING | MAXIMUM TRENCH BOTTOM |
| INITIAL SYSTEM TRENCH A | 2' | 3' | 7' |
| 1ST REPLACEMENT TRENCH A | 2' | 3' | 6' |
| 1ST REPLACEMENT TRENCH B | 2' | 3' | 6' |
| 2ND REPLACEMENT TRENCH A | 2' | 2.5' | 6' |

| LOT 15 - APPROXIMATE ELEVATIONS | | | |
|---------------------------------|------------------|------------------|------------------|
| | GROUND ELEVATION | INVERT ELEVATION | BOTTOM ELEVATION |
| INITIAL SYSTEM TRENCH A | 536.1 | 534.1 | 529.1 |
| 1ST REPLACEMENT TRENCH A | 535.0 | 533.0 | 529.0 |
| 1ST REPLACEMENT TRENCH B | 533.7 | 531.7 | 527.7 |
| 2ND REPLACEMENT TRENCH A | 532.6 | 530.6 | 526.6 |

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 COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG #HO-17-0032) 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.

TRENCH LENGTH AND SPACING CALCULATIONS

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

INITIAL SYSTEM & 1ST REPLACEMENT SYSTEM
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF
USE 3' WIDE TRENCH W/ 48" OF EFFECTIVE AREA DEPTH
625 SF / 3' WIDTH = 208 LF x 0.42 = 87.5 LF MIN. TRENCH

1ST REPLACEMENT SYSTEM
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF
USE 3' WIDE TRENCH W/ 36" OF EFFECTIVE AREA DEPTH
625 SF / 3' WIDTH = 208 LF x 0.50 = 104 LF MIN. TRENCH

2ND REPLACEMENT SYSTEM
750 GPD / 1.2 GPD/SF (APP. RATE) = 625 SF
USE 3' WIDE TRENCH W/ 30" OF EFFECTIVE AREA DEPTH
625 SF / 3' WIDTH = 208 LF x 0.45 = 94 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

- 1 - 87' LONG TRENCHES FOR INITIAL SYSTEM
- 2 - 52' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 1 - 94' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

INSTALL INITIAL SYSTEM DISTRIBUTION AS TWO 40 FOOT LATERALS (4-INCH PVC).

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 9/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS. HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 28, 2012. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

DDC Inc.
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

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DDC@DDCinc.us
www.DDCinc.us

OWNER:
NY HOMES
5074 DORSEY HALL DR., SUITE 205
ELLICOTT CITY, MD 21042
410-720-3021

DEVELOPER:
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-3391

SITE ADDRESS:
SIE RIVER ROAD
SYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #64937)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1056 STEPPING PLACE

LOT 15 ONSITE SEWAGE
DISPOSAL SYSTEM DESIGN PLAN

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

REVISIONS

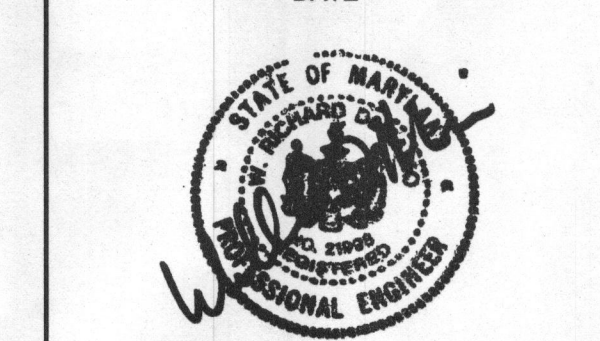
| NO. | DESCRIPTION OF CHANGES | DRN. | REV. | DATE |
|-----|------------------------|------|------|------|
|-----|------------------------|------|------|------|

CO. FILE #: F-17-045
TAX ACC. #: 03-601568
TAX MAP: 9
BLOCK / GRID: 6
PARCEL #: 66
ZONE / USE: RR-DEO
DWG. SCALE: 1" = 30'

DES. BY: LJC
DRN. BY: LJC
CHK. BY: WRD
DATE: 4/16/20
DDC JOB#: 12064.3
SHEET NUMBER:
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. 21998 EXPIRATION DATE: 6/6/20

4/16/20
DATE



WILLIAM R. DEMARIO

PROFESSIONAL ENGINEER NO. 21998

