



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: _____ **ONSITE SEWAGE DISPOSAL SYSTEM** P _____

APPROVAL DATE: _____ **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: **1021 HIGH STEPPER TRAIL, SYKESVILLE, MD 21784**

SUBDIVISION: **WALKER MEADOWS** LOT: **5** TAX ID: **03-601563**

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: 94	INLET DEPTH: 2.0
	TRENCH WIDTH: 3	MAXIMUM BOTTOM DEPTH: 5.5
	MINIMUM SPACE BETWEEN TRENCHES: 10	EFFECTIVE AREA BEGINNING DEPTH: 3.0
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.	

ISSUED BY: **R BRICKER** ISSUE DATE: _____ EXPIRATION DATE: _____

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 DOWNGRAIENT 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

NUMBER OF TRENCHES _____
TOTAL LENGTH _____
ABSORPTION AREA _____
DISTRIBUTION BOX LEVEL _____
DISTRIBUTION BOX BAFFLE _____
DISTRIBUTION BOX PORT _____

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

PRE-CONSTRUCTION:

INSTALLATION: _____

FINAL INSPECTOR _____, DATE OF APPROVAL _____.



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RECEIPT DATE: 6/15/2020 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567877

APPROVAL DATE: 9/5/2020 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1021 HIGH STEPPER TRAIL, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 5

TAX ID: 03-601563

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>94</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>5.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</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.	

ISSUED BY: R BRICKER

ISSUE DATE: 6/15/2020 EXPIRATION DATE: 6/15/2021

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 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.

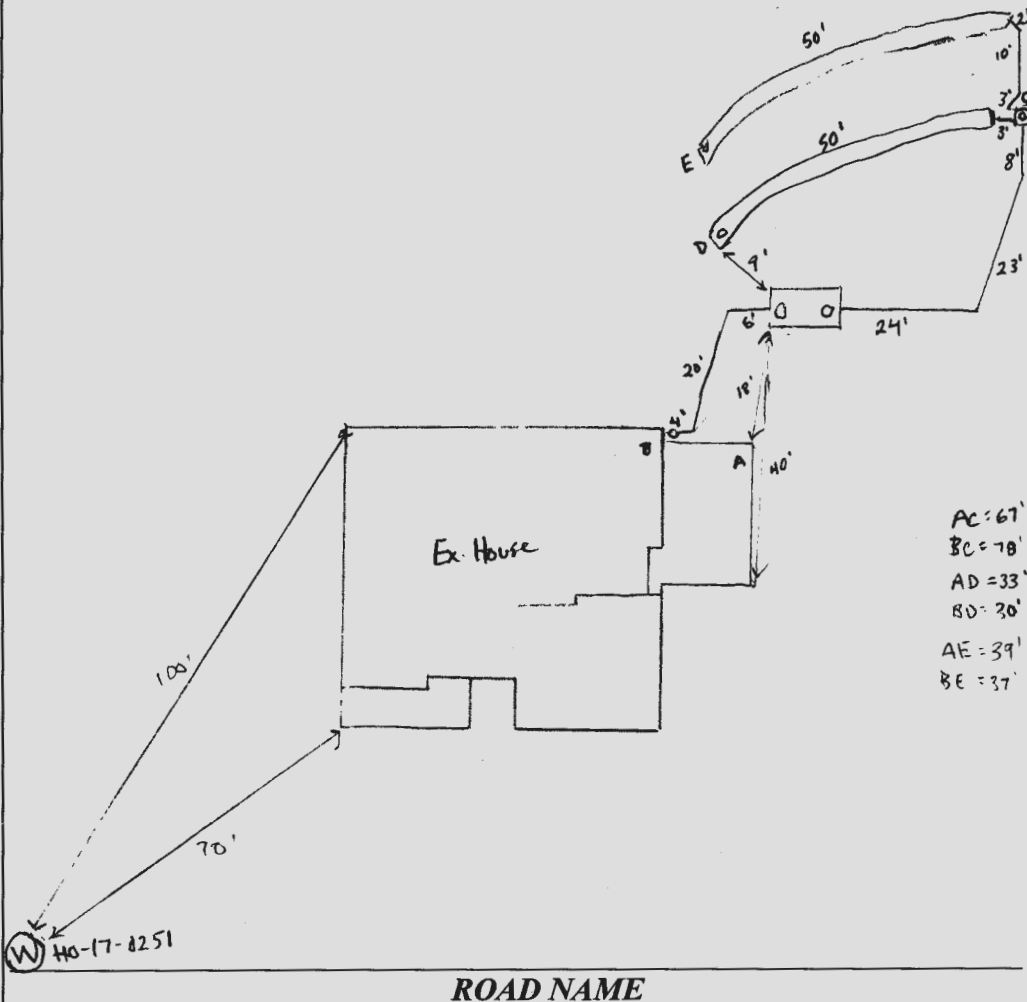
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 1" = 30'



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	5'
NUMBER OF TRENCHES		2
TOTAL LENGTH		100'
ABSORPTION AREA		30 sq ft + subunit
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	top
TANK LID DEPTH	1'-1.5'
BAFFLES	front + back
BAFFLE FILTER	-
MANHOLE LOC	front + back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	5-16-20

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:

7/2/2020 - layout inspection complete. as suggested by J. Cabahug during review, the tank will be flipped and the dbox is moved to Southern corner of sda, change to the plan in order to decrease the # of bends in the solids line. Used transit to shoot trenches, looks good ok to begin installation. (S)

INSTALLATION: 7/8/2020 Reviewed pictures of SL and tank from contractor (see attached). Levelled d-box. Trenches constructed today. Re-inspect for SHC. (S)
Confirmed on 9/5/2020. (S)

FINAL INSPECTOR

DATE OF APPROVAL

9/5/2020

Howard County Health Department

Bureau of Environmental Health, Columbia, MD 21045 - 410-313-1771

SEWAGE DISPOSAL PERMIT NO. A-_____ P-_____

RESIDENTIAL PERMIT ☐
(NUMBER OF BEDROOMS: _____)

COMMERCIAL PERMIT ☐
(DESIGN FLOW: _____ GPD)

PERMITEE:

LOCATION:

South Carroll Backhoe
1021 High Stepper Trail Walker Meadows Lot 5

****POST THIS CARD WHERE IT CAN BE SEEN FROM ROAD****

☐

STOP ALL CONSTRUCTION ON SEWAGE
DISPOSAL SYSTEM AND CONTACT HEALTH
DEPARTMENT BEFORE CONTINUING

Inspector _____

Date _____

☐

WORK IS SATISFACTORY, OK TO
CONTINUE

Inspector _____

Date _____

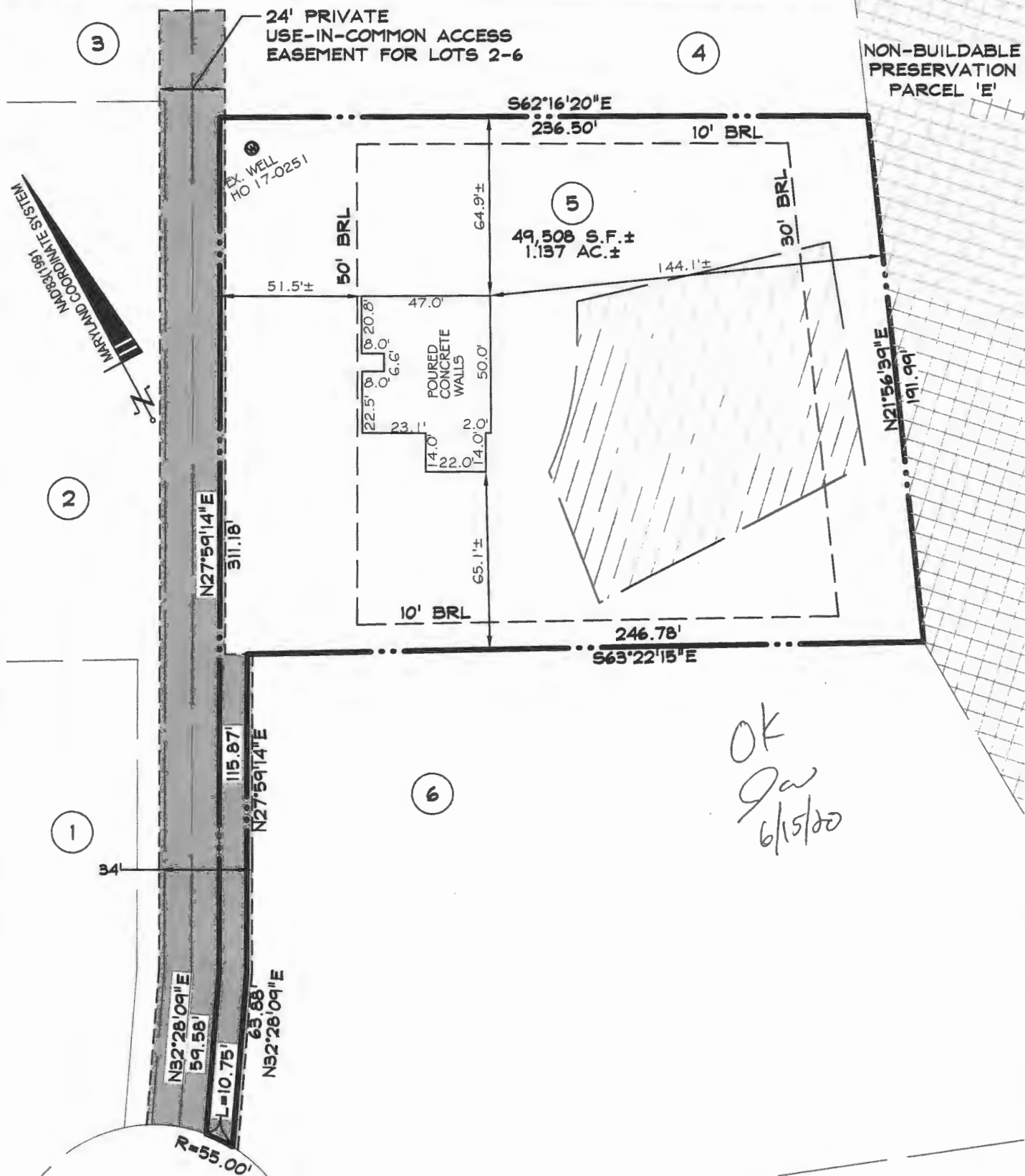
COMMENTS: _____

☐

FINAL INSPECTION MADE, OK TO
COVER ALL WORK

Inspector _____

Date _____



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 5/28/20



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

DDC JOB#:	12064.3
DATE:	05/28/2020
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM

TOP OF WALK = 504.0

WALL CHECK
1021 HIGH STEPPER TRAIL
LOT 5
WALKER MEADOWS
PLAT NO. 24976

3rd ELECTION DISTRICT HOWARD COUNTY, MD

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE DISPOSAL AREA



PUBLIC VARIABLE WIDTH DRAINAGE, SWM & UTILITY EASEMENT



PRIVATE USE IN COMMON ACCESS EASEMENT

HIGH STEPPER TRAIL
PUBLIC ACCESS STREET

24' PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 2-6

NON-BUILDABLE PRESERVATION PARCEL 'E'

S62°16'20"E

236.50'

4

10' BRL

5

49,508 S.F. ±
1.137 AC. ±

144.1' ±

50' BRL

30' BRL

51.5' ±

64.9' ±

47.0'

23.1'

22.5'

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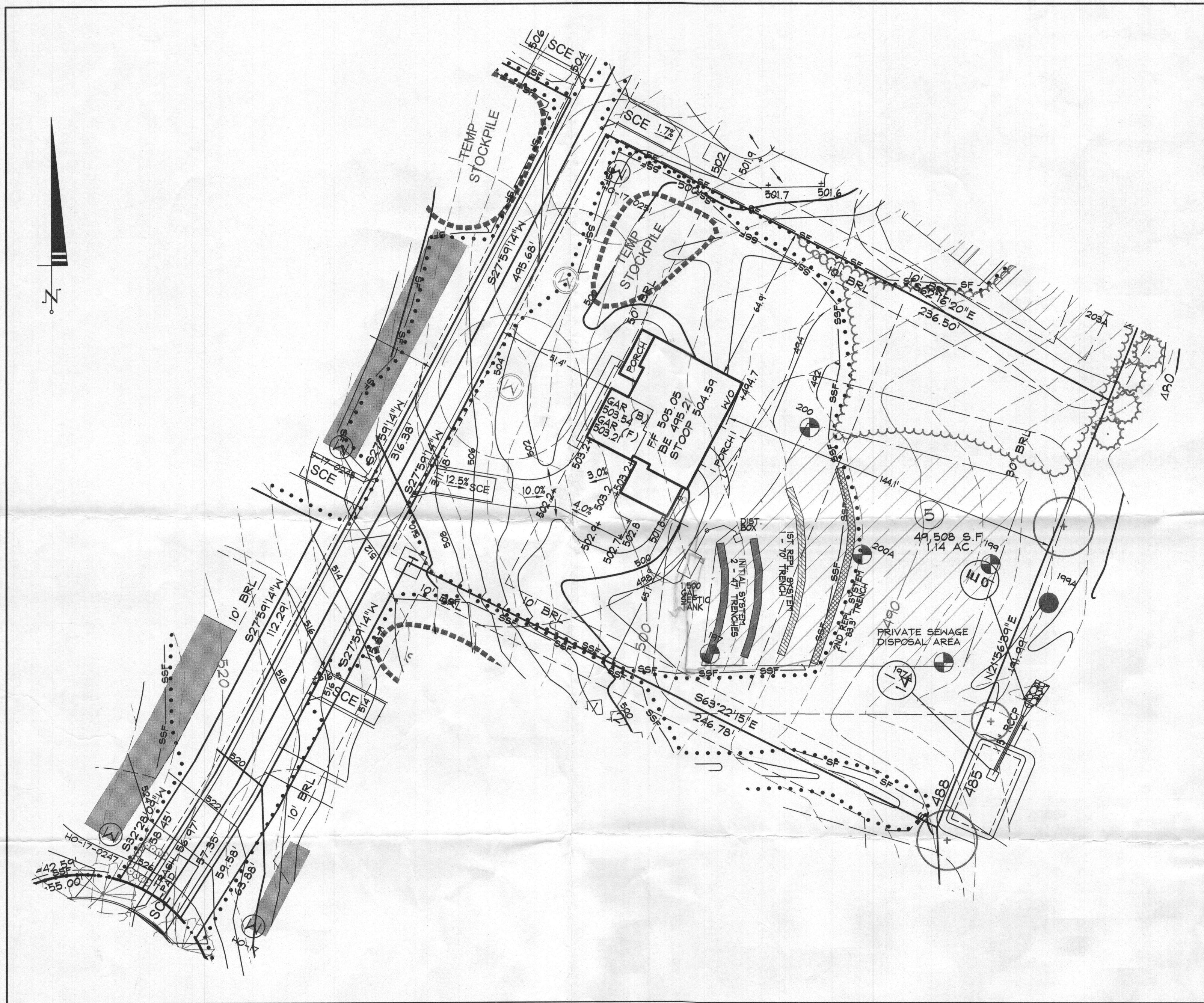
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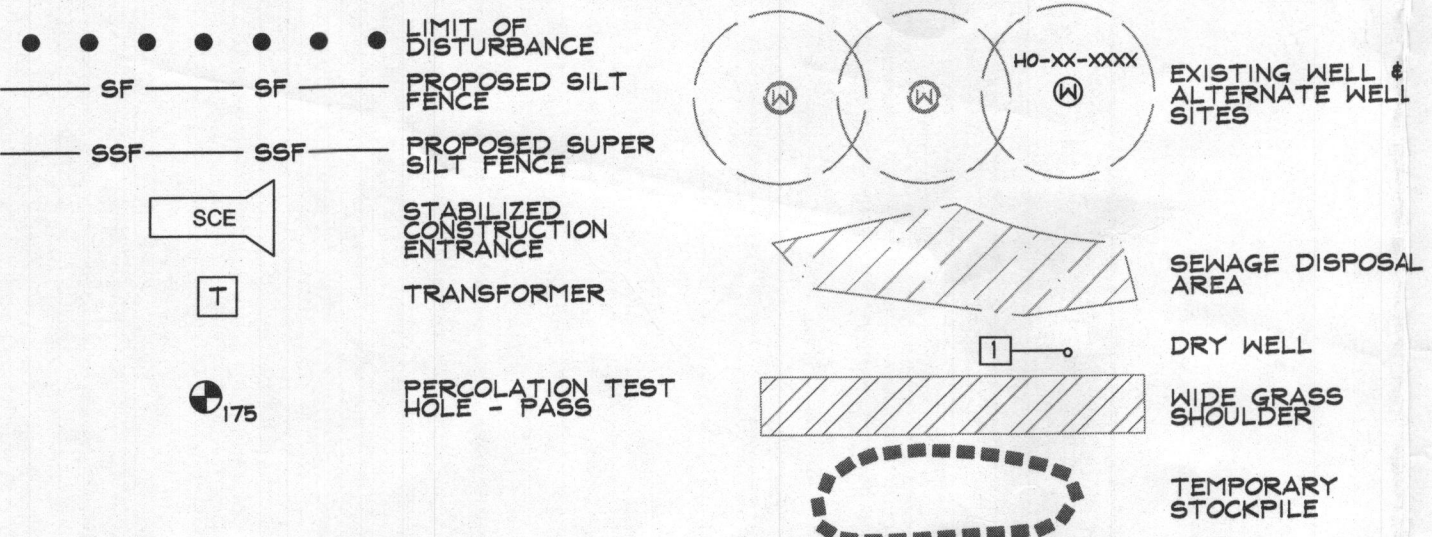
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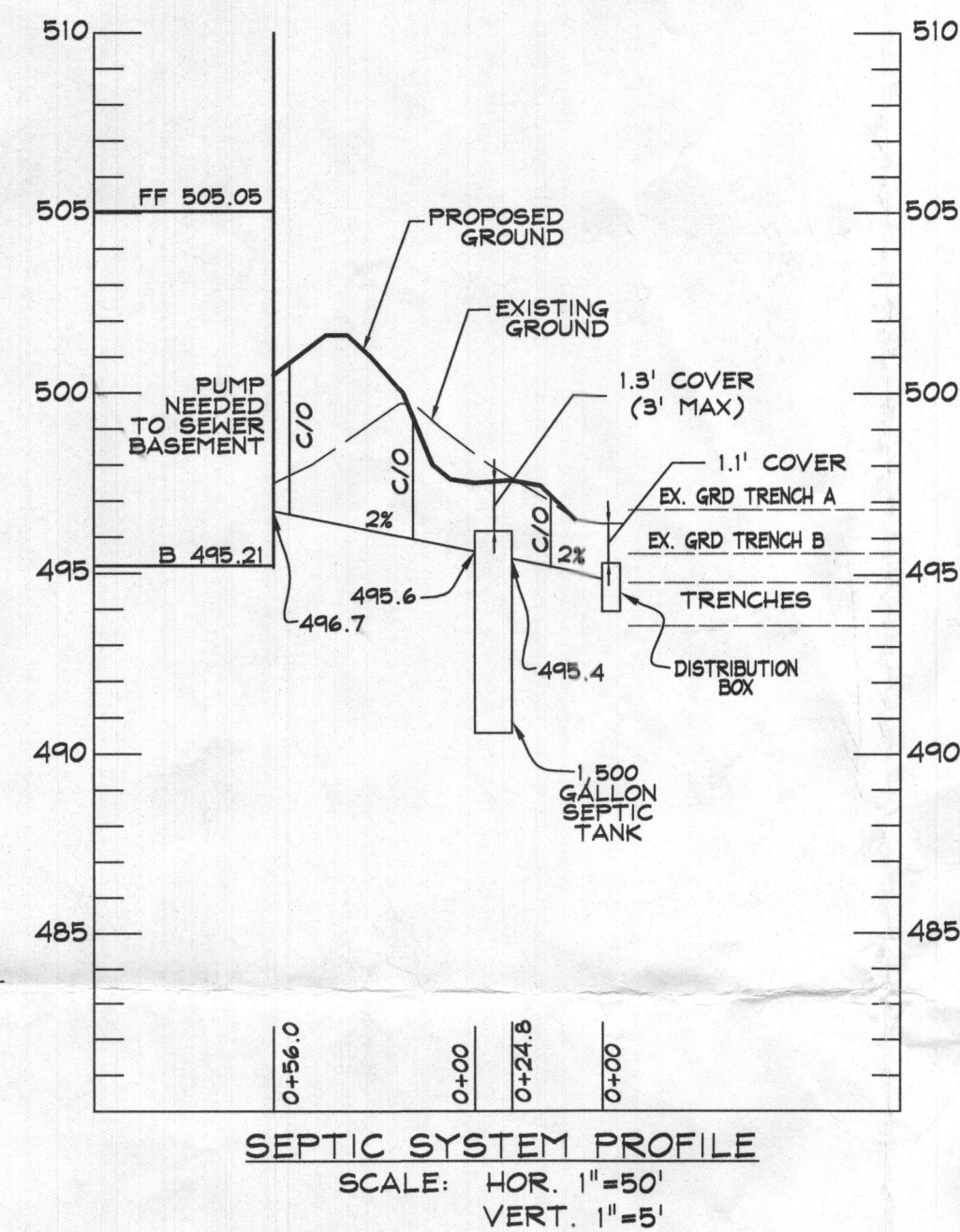
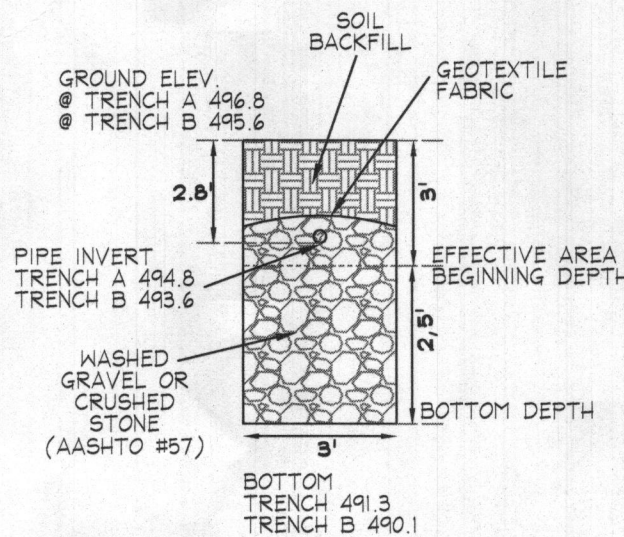


LOT 5 PLAN VIEW
SCALE: 1" = 30'

DRAWING LEGEND



TRENCH DETAIL INITIAL SYSTEM
N.T.S.



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-17-0251) 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/ 30" OF EFFECTIVE AREA
500 SF / 3' WIDTH = 167 LF x 0.56' = 93.5 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

1ST REPLACEMENT SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH W/ 48" OF EFFECTIVE AREA
500 SF / 3' WIDTH = 167 LF x 0.42' = 69.6 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
600 GPD / 1.2 GPD/SF (APP. RATE) = 500 SF
USE 3' WIDE TRENCH W/ 36" OF EFFECTIVE AREA
500 SF / 3' WIDTH = 167 LF x 0.50' = 83.3 LF MIN. TRENCH
- 11' MIN SPACING BETWEEN TRENCH EDGES

2 - 46.8' LONG TRENCH FOR INITIAL SYSTEM
1 - 69.6' LONG TRENCH FOR 1ST REPLACEMENT SYSTEM
1 - 83.3' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

LOT 5 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	2'	3'	5.5'
INITIAL SYSTEM TRENCH B	2'	3'	5.5'
1ST REPLACEMENT	2'	2'	6'
2ND REPLACEMENT	2'	3'	6'

LOT 5 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	496.8	494.8	491.3
INITIAL SYSTEM TRENCH B	495.6	493.6	490.1
1ST REPLACEMENT	494.0	492.0	488.0
2ND REPLACEMENT	492.3	490.3	486.3

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 25, 2015. EX. ENVIRONMENTAL INFORMATION SHOWN PER FIELD INVESTIGATION BY ECO-SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

DDC
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
410-720-3021

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

SITE ADDRESS:
SE RIVER ROAD
STYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #4987)
LOTS 1-34 # BUILDABLE PRESERVATION PARCEL A # NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1021 HIGH STEPPER TRAIL

LOT 5 ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

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

REVISIONS

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
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CO. FILE #: F-17-045	DES. BY: LJC
TAX ACC. #: 03-601568	DRN. BY: LJC
TAX MAP: 9	CHK. BY: WRD
BLOCK / GRID: 6	DATE: 4/16/20
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. 21998 EXPIRATION DATE: 6/6/20

