



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: 1-26-21 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 542934A

APPROVAL DATE: 3/9/21 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1033 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 12

TAX ID:

03-601570

CONTRACTOR: Salem Bottom Rd South Carroll

EMAIL:

Schackher@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Rd Westminster MD

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>130</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.0</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) 65-FT TRENCHES.	

ISSUED BY: R BRICKER

ISSUE DATE:

2-8-21

EXPIRATION DATE:

1-26-22

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

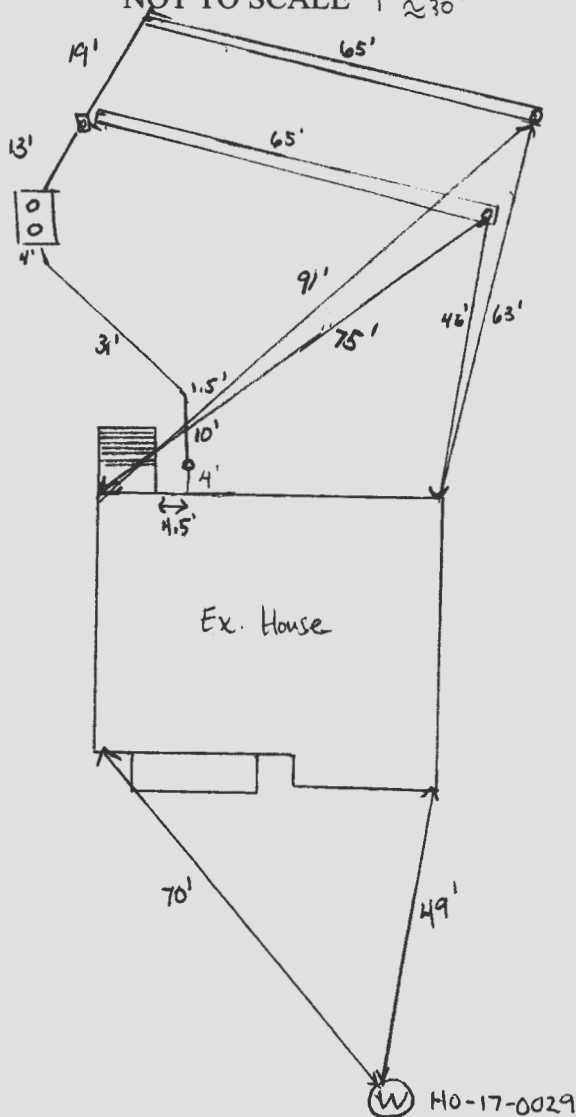
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

1033 Stepping Place

NOT TO SCALE 1" ≈ 30'

ROAD NAME
Stepping Place**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2'	6'

NUMBER OF TRENCHES 2
 TOTAL LENGTH 130'
 ABSORPTION AREA 390' + sidewalk
 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 1.5' to 2'
 BAFFLES front 6" / back 4"
 BAFFLE FILTER -
 MANHOLE LOC front / back
 6" PORT LOC -
 WATERTIGHT TEST -
 SLOTTED yes
 DATE ON LID 1/19/21

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:

3/3/21 2 x 65' trenches were staked out on contour according to plan
 Tank and d-box also staked - contractor may move d-box closer to house.

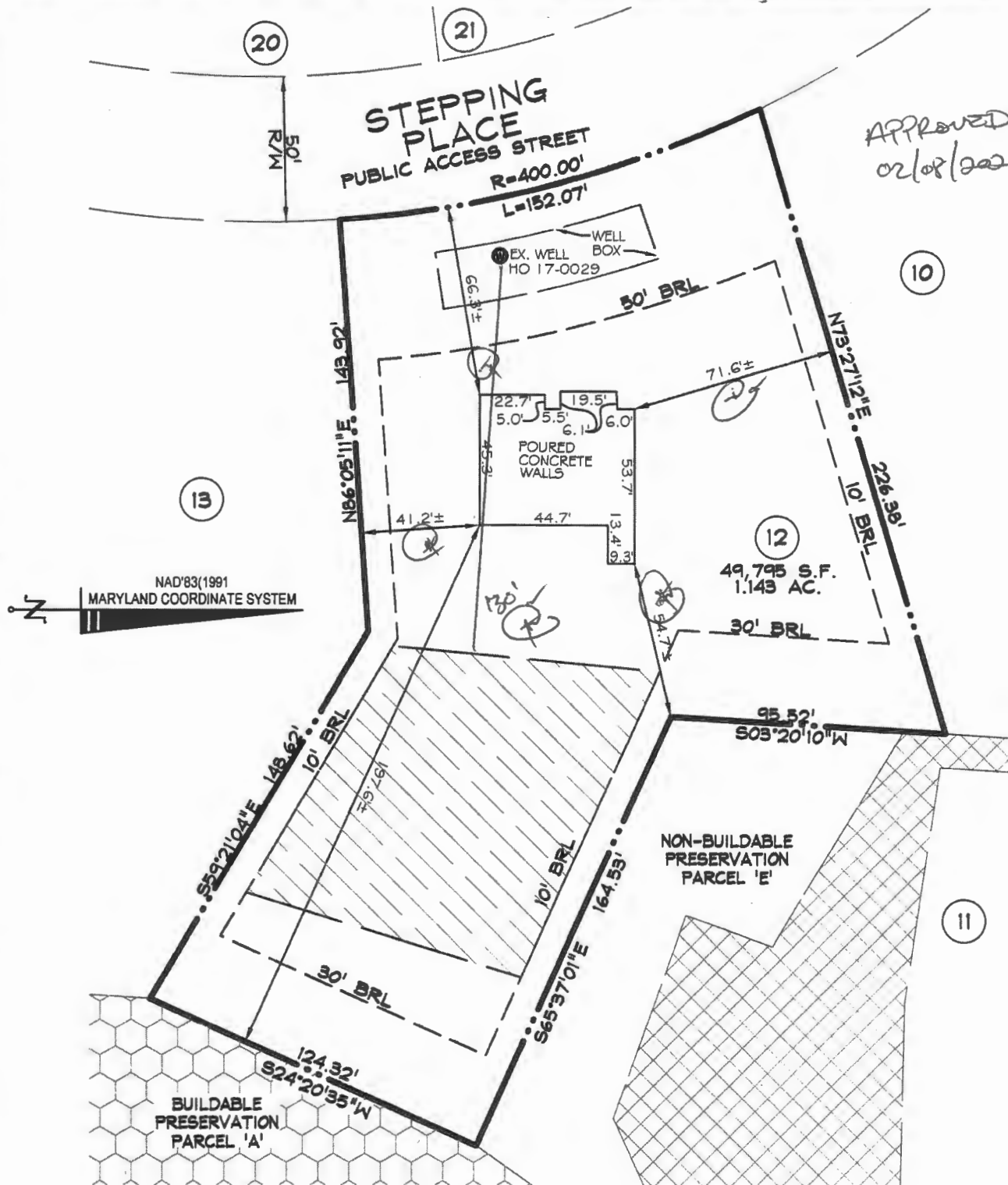
INSTALLATION: 3/3/21 Tank and d-box installed. 3/4/21 contractor onsite finishing up 2nd trench, transit onsite, stone looks good and geotextile fabric in place, no SHC, d-box levelers good, ok to backfill. (R)
 (reinspect for SHC) 3/9/21 SHC installed. (S)

FINAL INSPECTOR

Susan Thomas

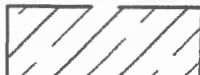
DATE OF APPROVAL

3/9/21



APPROVED *[Signature]*
02/08/2021

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE
DISPOSAL AREA



FOREST CONSERVATION
EASEMENT



PUBLIC VARIABLE WIDTH
DRAINAGE, SWM &
UTILITY 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 09/16/22.

[Signature] 1/13/21



TOP OF WALL = 538.7

WALL CHECK
1033 STEPPING PLACE
LOT 12
WALKER MEADOWS
PLAT NO. 24976

3rd ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#:	12064.3
DATE:	01/13/2021
SCALE:	1"=50'
DRN. BY:	CWJ
CHK. BY:	JLM

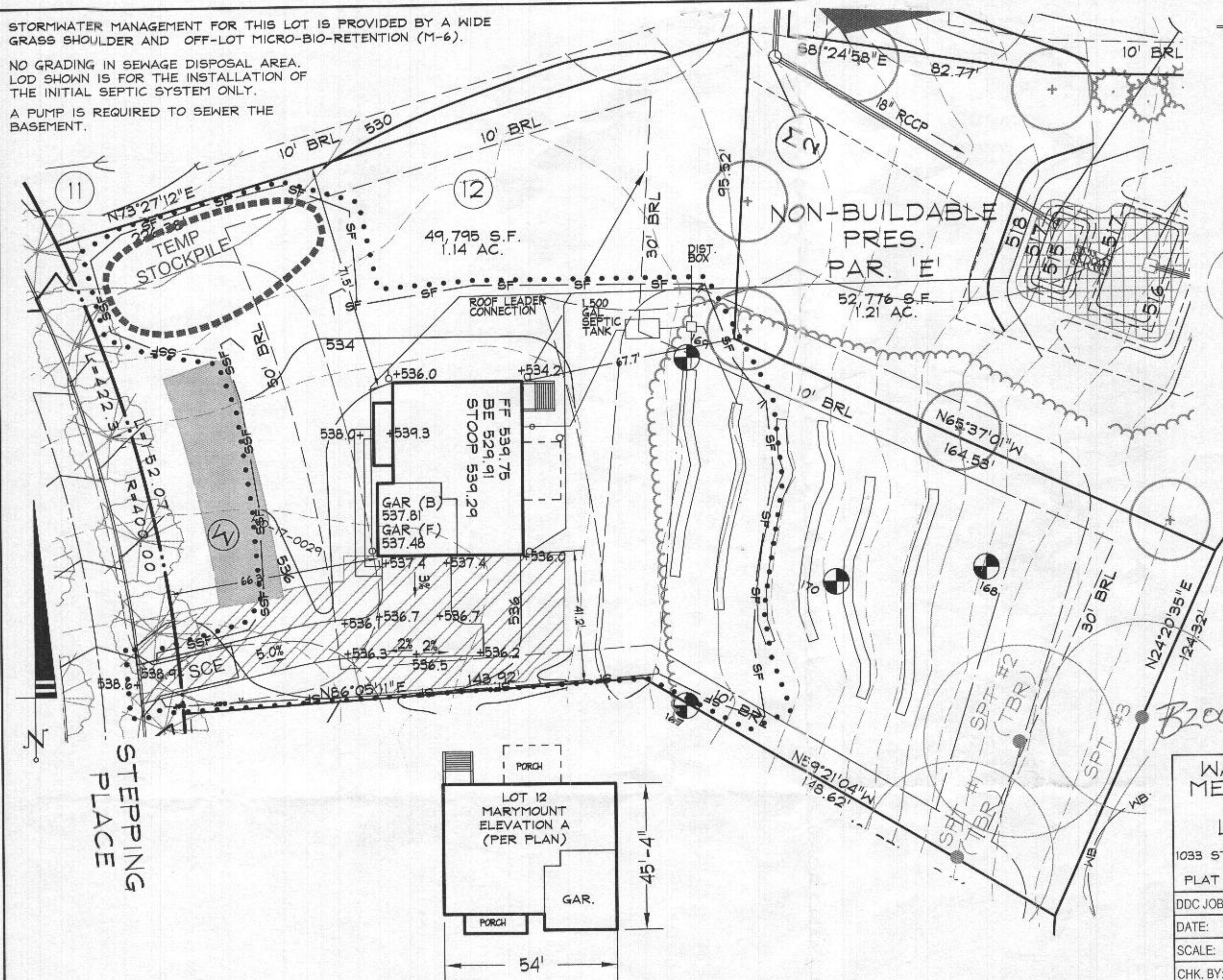


Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

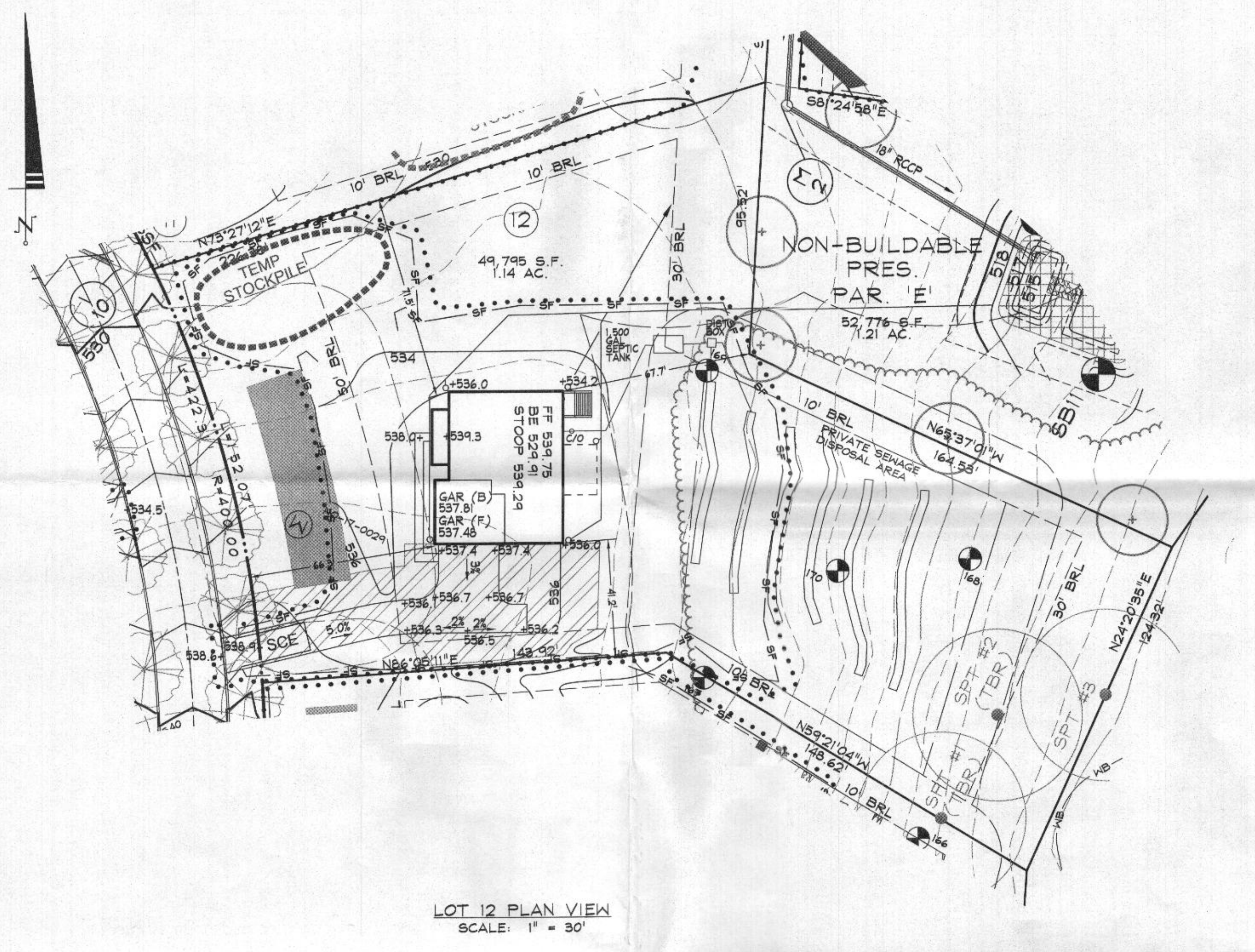
192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

A PUMP IS REQUIRED TO SEWER THE BASEMENT.



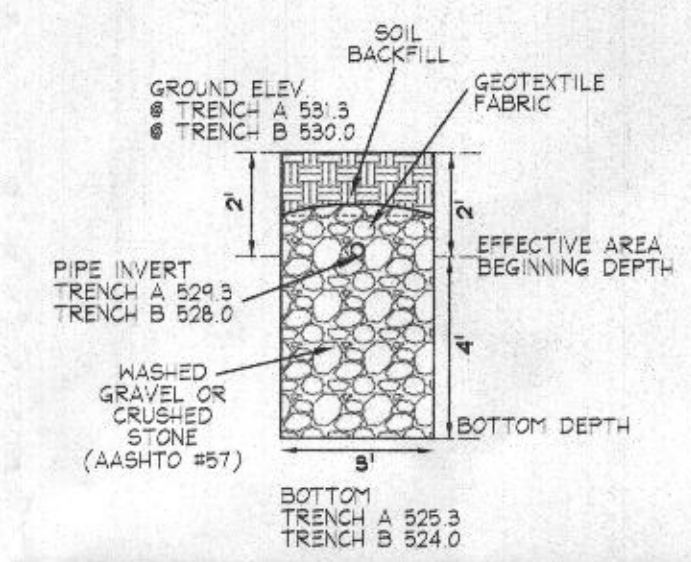
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THE FRONT DOOR FOR LOT 12 FACES WEST



LOT 12 PLAN VIEW
SCALE: 1" = 30'

STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY A WIDE GRASS SHOULDER AND OFF-LOT MICRO-BIO.



TRENCH
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-17-0029) 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.

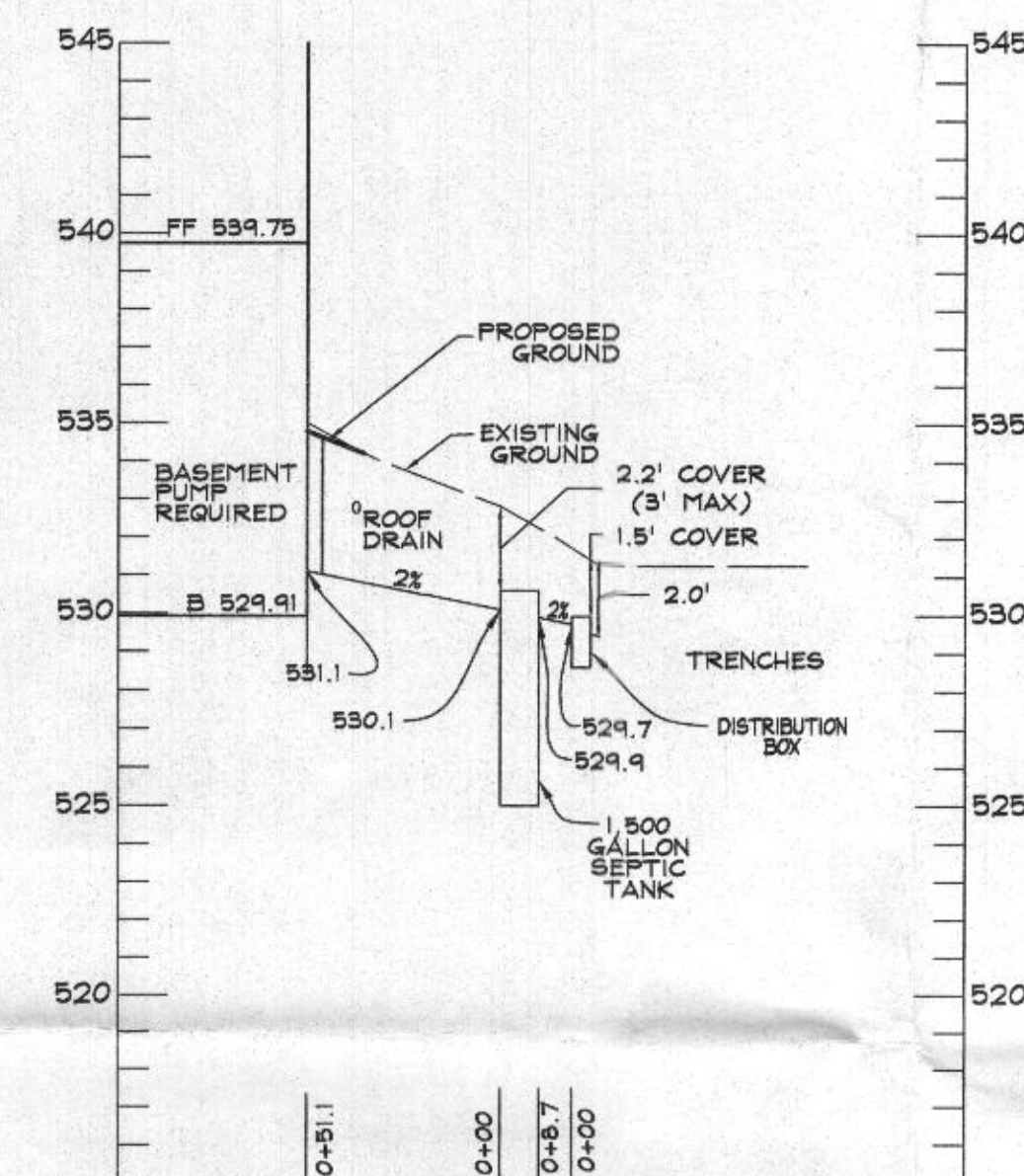
TRENCH LENGTH AND SPACING CALCULATIONS

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

INITIAL SYSTEM
750 GPD / 0.8 GPD/SF (APP. RATE) = 937.5 SF
USE 3' WIDE TRENCH W/ 48" OF GRAVEL - EFFECTIVE AREA 2'-6"
937.5 SF / 3' WIDTH = 312.5 LF x 0.42 = 130 LF MIN. TRENCH
- 11' MIN SPACING BETWEEN TRENCH EDGES

1ST & 2ND REPLACEMENT SYSTEMS
750 GPD / 0.8 GPD/SF (APP. RATE) = 937.5 SF
USE 3' WIDE TRENCH W/ 42" OF GRAVEL - EFFECTIVE AREA 2.5'-6"
937.5 SF / 3' WIDTH = 312.5 LF x 0.45 = 142 LF MIN. TRENCH
- 10' MIN SPACING BETWEEN TRENCH EDGES

2 - 65' LONG TRENCHES FOR INITIAL SYSTEM
2 - 71' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
2 - 71' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM



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

LOT 12 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM	2'	2'	6'
1ST REPLACEMENT	2'	2.5'	6'
2ND REPLACEMENT	2'	2.5'	6'

LOT 12 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	531.3	529.3	525.3
INITIAL SYSTEM TRENCH B	530.0	528.0	524.0
1ST REPLACEMENT TRENCH A	528.3	526.3	522.3
1ST REPLACEMENT TRENCH B	526.4	524.4	520.4
2ND REPLACEMENT TRENCH A	524.8	522.8	518.8
2ND REPLACEMENT TRENCH B	521.6	519.6	515.6

DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABGER AND LANE DATED JUNE, 2014
TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 9/2014.
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.

DDC
Development Design Consultants

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Landscape Architects

192 East Main Street
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OWNER:
ESC WALKER MEADOWS, L.C.
5074 DORSEY HALL DR., SUITE 205
ELLCOTT CITY, MD 21042
410-720-3021

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

SITE ADDRESS:
SIE RIVER ROAD
SYKEVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #6487)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1033 STEPPING PLACE
**LOT 12 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. #:	03-601588	DRN. BY:	LJC	
TAX MAP:	9	CHK. BY:	WRD	
BLOCK / GRID:	6	DATE:	10/20/20	
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. 21998 EXPIRATION DATE: 6/6/20

10/20/20
DATE

WILLIAM R. DEMARIO
PROFESSIONAL ENGINEER NO. 21998

DRAWING LEGEND

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