



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: 8/14/19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 565595

APPROVAL DATE: 09/10/2019 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1031 STEPPING PLACE, SYKESVILLE, MD 21784

SUBDIVISION: WALKER MEADOWS

LOT: 10 TAX ID: 03-601568

CONTRACTOR: South Carroll Backhoe EMAIL: Schoeckhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salmon Bottom Rd, Westminster, MD 21157 PHONE: 410-596-3618

PROPERTY OWNER: ESC WALKER MEADOWS L.C.

EMAIL: _____

OWNER ADDRESS: 5074 DORSEY HALL DR., SUITE 205, ELLICOTT CITY, MD 21042

PHONE: (410)720-3021

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: _____

PUMP MODEL: n.a.

PUMP SIZE n.a.

PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>105</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</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. <u>PVC-1120 SCH-40 PR 220 PSI @ 73°F ASTM D1785-15</u>	

ISSUED BY: R BRICKER

U.O.

ISSUE DATE: 8/14/19

EXPIRATION DATE: 8/14/20

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.

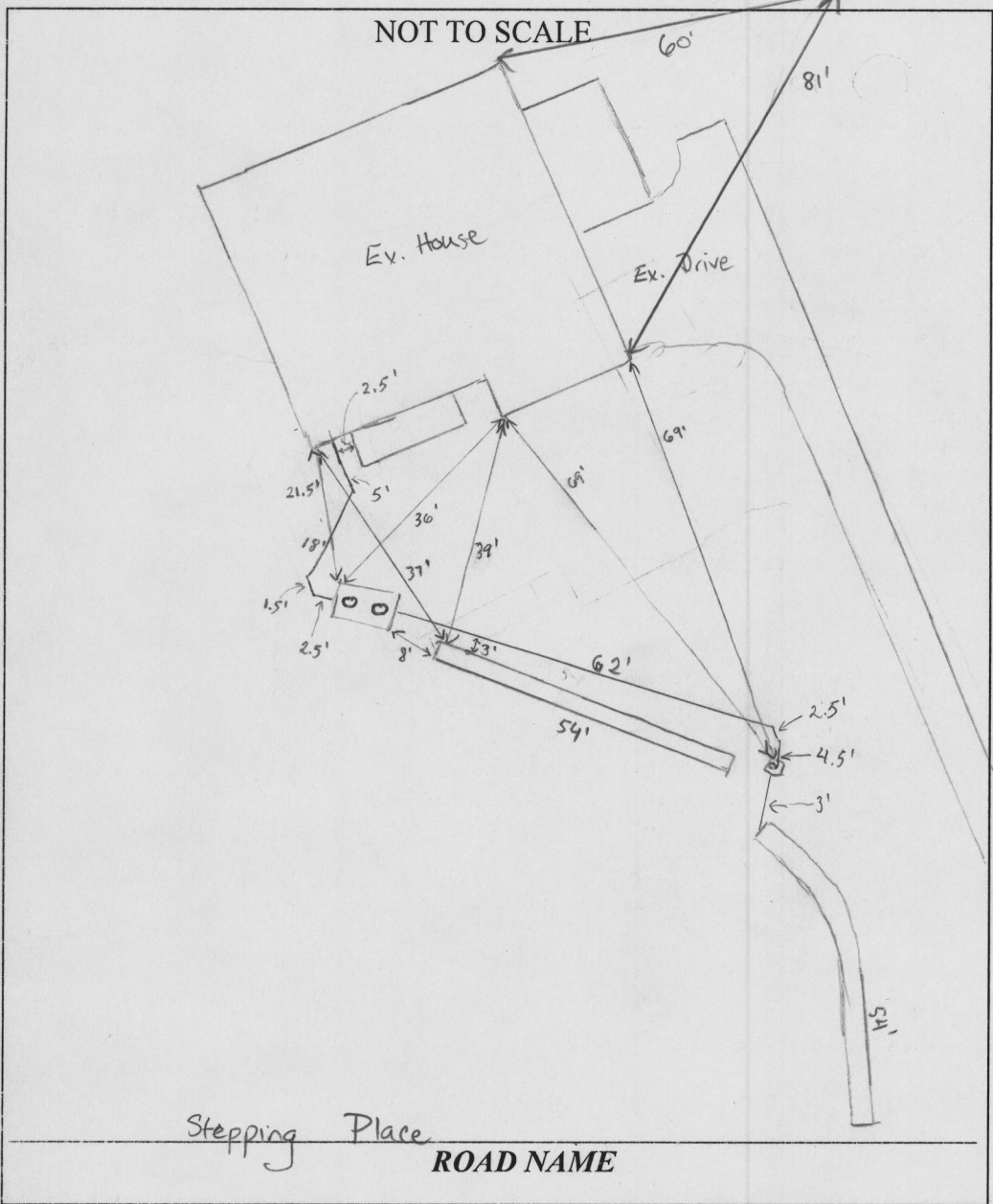
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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.

W HO-17-0255



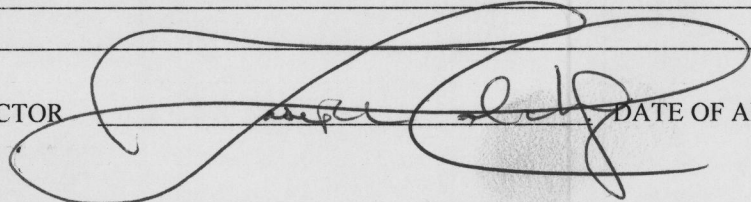
TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	3	7
NUMBER OF TRENCHES		2
TOTAL LENGTH		108 F
ABSORPTION AREA		324 SF + SIDE WALL
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	N TOP
TANK LID DEPTH	2.5 ft
BAFFLES	outlet
BAFFLE FILTER	N/A
MANHOLE LOC	front + back
6" PORT LOC	N/A
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	7-22-19
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:

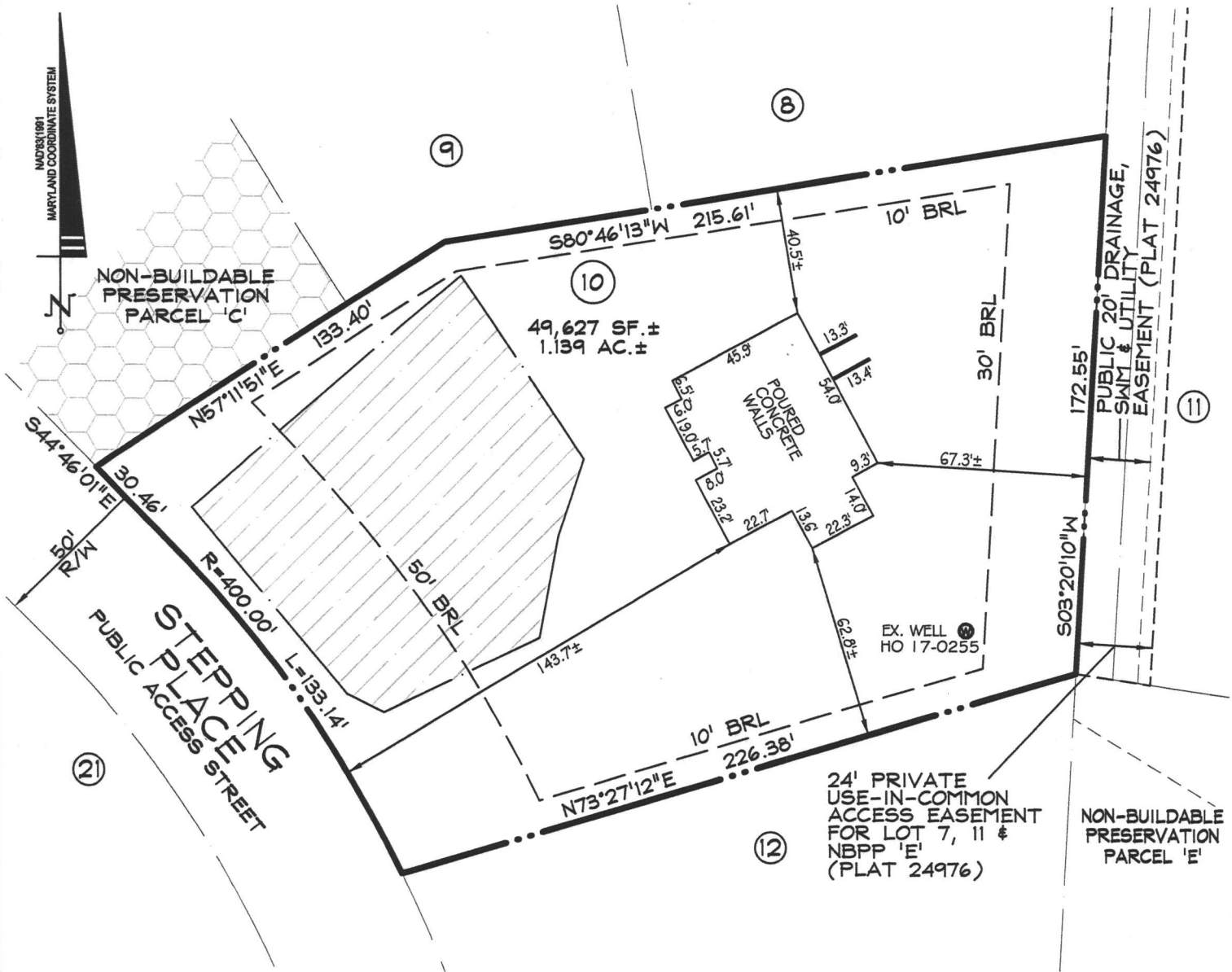
08/23/2019 CONFIRMED HOUSE OUT AND TANK SETBACK TO DRY WELL. TANK AND SDA STAKED. CURVED TRENCH HAD 8" OF FILL. USE LASER LEVEL DURING CONSTRUCTION. (P)

INSTALLATION: 08/29/2019 TANK SET. ^{PROXIMAL} UPPER TRENCH COMPLETED TO SPEC. SEWER LINE TO DBOX INSTALLED. (P) 08/30/2019 DISTAL TRENCH COMPLETE. DBOX LEVELED W/ SPEED LEVEL. OK TO BACKFILL. INLET BAFFLE INSTALLED W/ SEWERLINE REINSP. SHC. (P) SET 9/10/2019 SHC PHOTOGRAPH SUBMITTED TO OFFICE. OK TO BACKFILL AND FINAL.

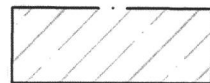
FINAL INSPECTOR  DATE OF APPROVAL 09/10/2019

Walker Meadows lot 10

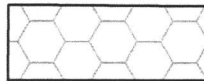




BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE DISPOSAL AREA

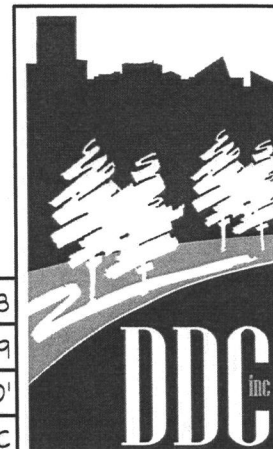


FOREST CONSERVATION EASEMENT

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.

8/14/19. wall
check okay.
- Hank



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

TOP OF WALL = 531.4

WALL CHECK
1031 STEPPING PLACE
LOT 10
WALKER MEADOWS
PLAT NO. 24976

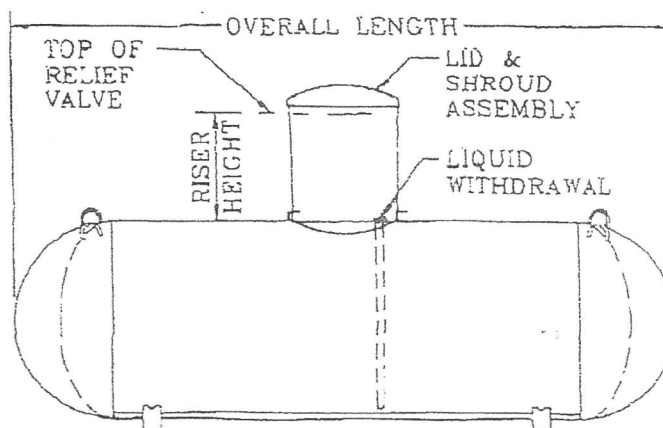
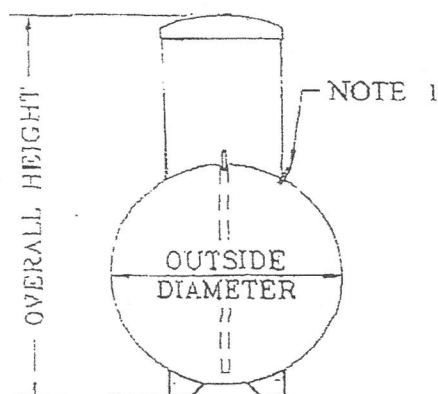
3rd ELECTION DISTRICT HOWARD COUNTY, MD

DDC JOB#: 12064.3
DATE: 08/06/2019
SCALE: 1"=50'
DRN. BY: LJC
CHK. BY: JLM

Development Design Consultants

TRINITY INDUSTRIES, INC.

Underground Vesse



General Specifications

Conforms to the latest edition and addenda of the ASME, Section VIII, div.1 code for Pressure Vessels. Complies with NFPA 58 and is listed by Underwriters Laboratories, Inc.

Rated at 250 psig from -20°F. to 125°F. All tanks may be evacuated to a full (14.7 psi) vacuum.

Vessel Finish: Coated with epoxy red powder.

Applicable federal, state or local regulations may contain specific requirements for protective coatings and cathodic protection. The purchaser and installer are responsible for compliance with such federal, state or local regulations.

All vessel dimensions are approximate

WATER CAPACITY	OUTSIDE DIAMETER	HEAD TYPE	OVERALL LENGTH	OVERALL HEIGHT		WEIGHT	QUANTITY IN FULL LOAD
				Riser Height 14"	28"		
120 wg 454.2 L	24" 609.6 mm	Ellip	5' - 5 7/8" 1671.6 mm	3' - 9 7/8" 1165.2 mm	4' - 8 3/8" 1431.9 mm	252 lbs. 114.3 kg	63
250 wg 946.3 L	31.5" 800.1 mm	Hemi	7' - 2 1/2" 2197.1 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	472 lbs. 214.1 kg	42
320 wg 1211.2 L	31.5" 800.1 mm	Hemi	8' - 11 3/4" 2736.9 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	588 lbs. 266.7 kg	35
500 wg 1892.5 L	37.42" 950.5 mm	Hemi	9' - 10" 2997.2 mm	4' - 11 3/8" 1506.8 mm	5' - 9 7/8" 1773.2 mm	921 lbs. 417.8 kg	25
1000 wg 3785.0 L	40.96" 1040.4 mm	Hemi	15' - 10 7/8" 4846.6 mm	5' - 2 7/8" 1597.0 mm	6' - 1 3/8" 1863.7 mm	1731 lbs. 785.2 kg	15
2000 wg 3785.6 L	46.614" 1183.9 mm	Ellip	23' - 9 3/8" 7248.5 mm	5' - 8 13/16" 1747.8 mm	6' - 7 5/16" 2014.5 mm	3685 lbs. 1671.4 kg	8

Bricker, Robert

From: Lori Cunningham <LCunningham@ddcinc.us>
Sent: Friday, June 28, 2019 8:43 AM
To: Bricker, Robert
Subject: RE: Walker Meadows-Lot 10_OSDS Design Plan

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good Morning Robert,

- The septic tank is to be 1,500 gallon
- The scale of the plan view is noted in the lower right hand corner and is 1"=30' - in the future, I will label it below the plan view for clarity
- I will be sure to add a cleanout for future Lots

Thank you for offering to take care of these items – please do.

I really appreciate all of your help.

Have a great weekend!

Lori

From: Bricker, Robert [mailto:RBricker@howardcountymd.gov]
Sent: Friday, June 28, 2019 8:05 AM
To: Lori Cunningham
Subject: Walker Meadows-Lot 10_OSDS Design Plan

Good morning Lori. Concerning the Walker Meadows-Lot 10 OSDS Design Plan: there are three edits, i.e., notations, that are needed.

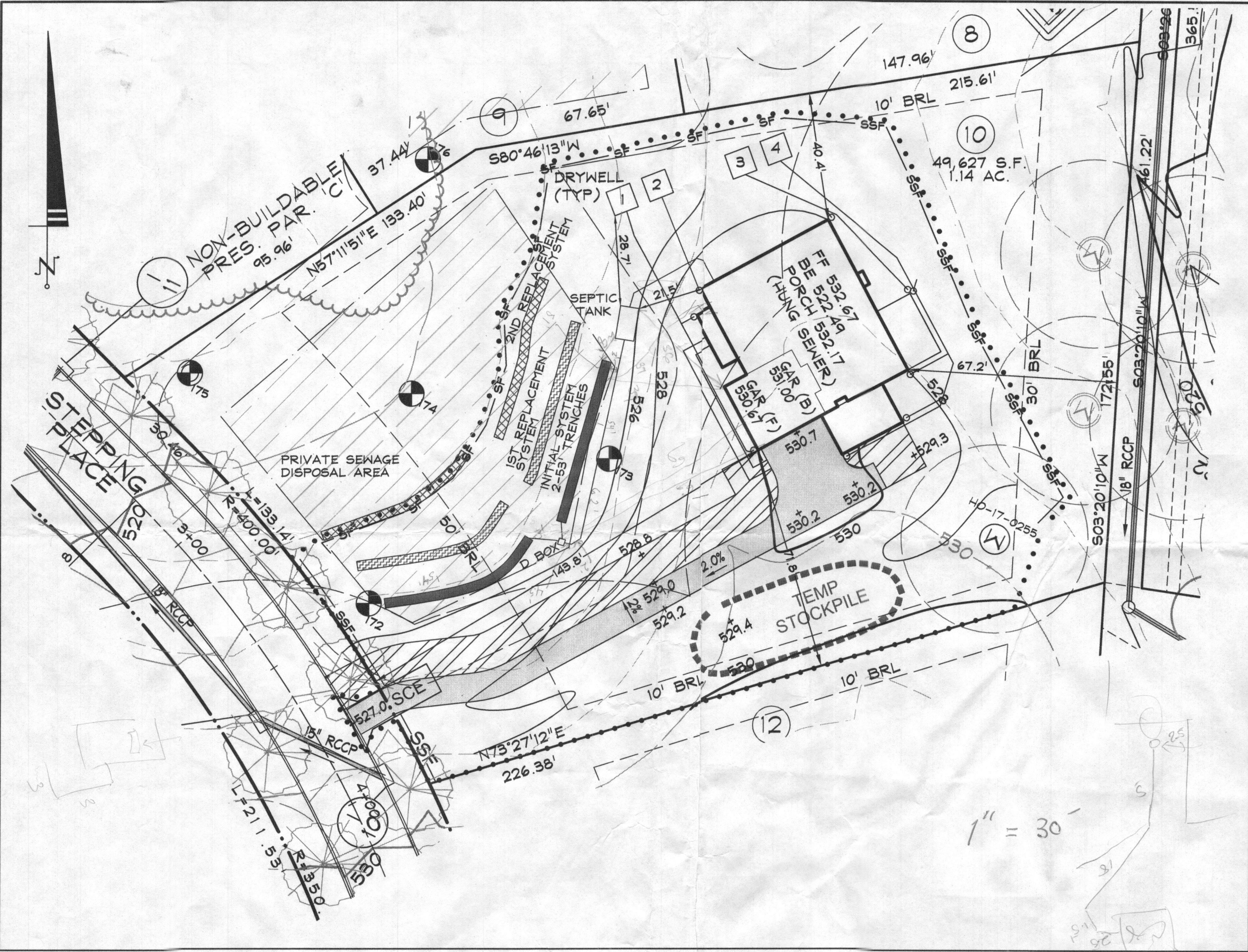
1. There is no indication of the septic tank capacity that you are recommending. Is it 1500 gallon or 2000 gallon? I can apply the label.
2. A statement of scale is needed for the Plan View. I measure 1 inch equal to 30 feet.
3. There needs to be a cleanout in the sewer house connection. I can simply state this in the Profile drawing on the plan and condition the permit for a cleanout.

Waiting for your instruction.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

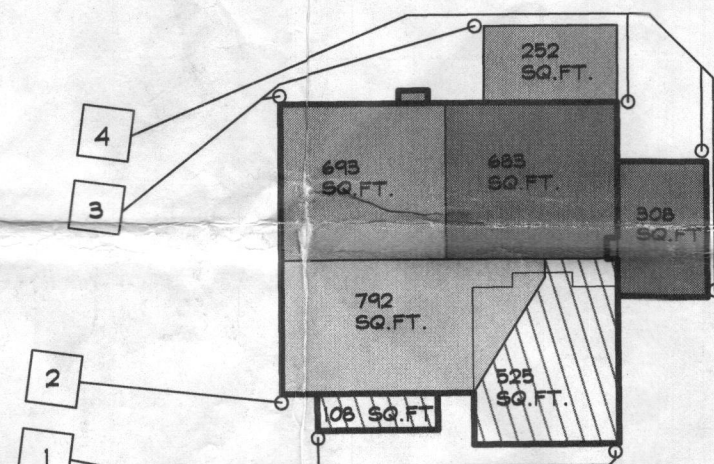
Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov



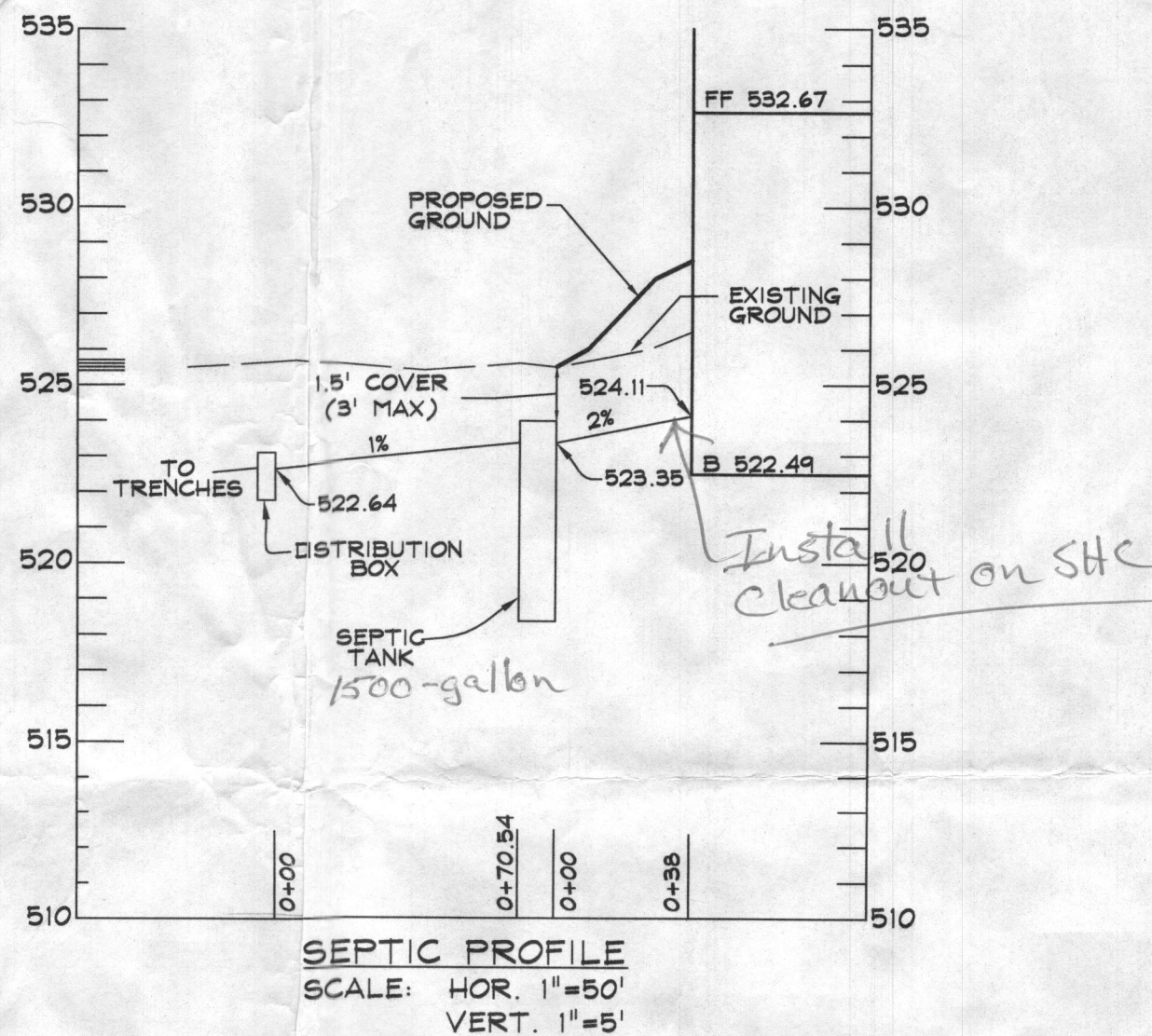
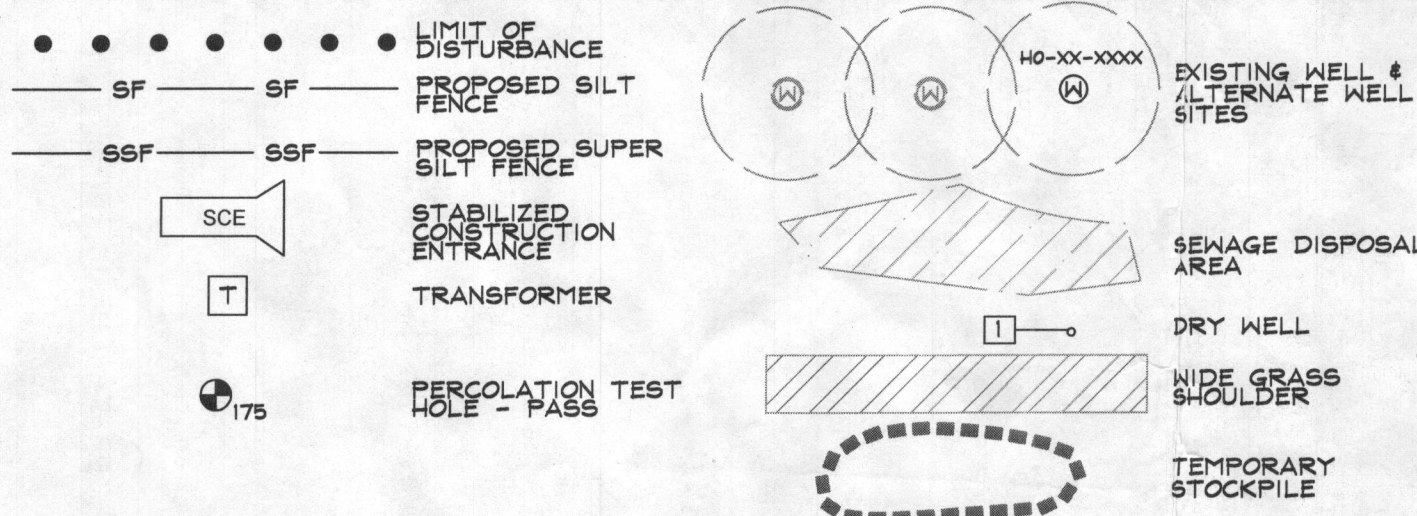
REFER TO SHEET
25 (F-17-045)
FOR DRYWELL
DETAIL D-9.01

DRYWELL (M-B) SIZE CHART		
DRYWELL #	L X W	STONE DEPTH
1	7'x6'	5'
2	7'x6'	5'
3	7'x6'	5'
4	7'x6'	5'



LOT 10 DRYWELL DETAIL

DRAWING LEGEND



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-17-0255) 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 / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE
750 SF / 3' WIDTH = 312.5 LF x 0.42 = 105 LF MIN. TRENCH

1ST/2ND REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 48" OF GRAVEL BELOW PIPE
750 SF / 3' WIDTH = 312.5 LF x 0.42 = 105 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

- 2 - 53' LONG TRENCH FOR INITIAL SYSTEM
- 2 - 53' LONG TRENCH FOR FIRST REPLACEMENT SYSTEM
- 2 - 53' LONG TRENCH FOR SECOND REPLACEMENT SYSTEM

LOT 10 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	3'	3'	7'
INITIAL SYSTEM TRENCH B	3'	3'	7'
1ST REPLACEMENT TRENCH A	3'	3'	7'
1ST REPLACEMENT TRENCH B	3'	3'	7'
2ND REPLACEMENT TRENCH A	3'	3'	7'
2ND REPLACEMENT TRENCH B	3'	3'	7'

LOT 10 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	524.8	521.8	517.8
INITIAL SYSTEM TRENCH B	524.3	521.3	517.3
1ST REPLACEMENT TRENCH A	523.8	520.8	516.8
1ST REPLACEMENT TRENCH B	523.4	520.4	516.4
2ND REPLACEMENT TRENCH A	522.6	519.6	515.6
2ND REPLACEMENT TRENCH B	522.2	519.2	515.2

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
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Landscape Architects

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Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

DDC inc.
Development Design Consultants

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

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

SITE ADDRESS:
S/E RIVER ROAD
SYKESVILLE, MD 21784

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE
DIEHL PROPERTY (PLAT #6937)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE
PRESERVATION PARCEL B-K; NON-BUILDABLE BULK PARCELS L-M
1031 STEPPING PLACE
**LOT 10 ONSITE SEWAGE
DISPOSAL SYSTEM DESIGN PLAN**

9TH 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:	6/17/19
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: 1/25/20

6/17/19
DATE

PAUL G. CAVANAUGH
PROFESSIONAL ENGINEER NO. 27020