

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
 Twitter: HowardCoHealthDep

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

A 556484C

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Old Lisbon Estates LOT # 4
 PROPERTY ADDRESS 15775 Frederick Rd., Woodbine 21797
STREET TOWN ZIP
 TAX ACCOUNT # 04315448 TAX MAP 8 GRID 7 PARCEL 5 LOT 4 LOT SIZE (ACRES) 1
 ZONING CATEGORY RC TIER 3

PROPERTY OWNER(S) Kimberthy/Heritage, LLC

DAYTIME PHONE 410-489-7900 CELL 410-984-0408 EMAIL Tim@HeritageMaryland.com
 MAILING ADDRESS P.O. Box 482 Lisbon, MD 21765
STREET CITY, STATE ZIP

APPLICANT Heritage Land Development RELATIONSHIP TO OWNER: Developer

DAYTIME PHONE 410-489-7900 CELL 410-984-0408 EMAIL Tim@HeritageMaryland.com
 MAILING ADDRESS P.O. Box 482 Lisbon, MD 21765
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

- BUILDING:
- RESIDENTIAL WITH four EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
 - COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)
- PROPERTY:
- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 30
 - CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
 - REPAIR OR REPLACE FAILING OSDS
 - UPGRADE EXISTING OSDS
- IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?
- YES
 - NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

[Handwritten Signature]

6/12/15

SIGNATURE OF APPLICANT

DATE

A/P _____

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

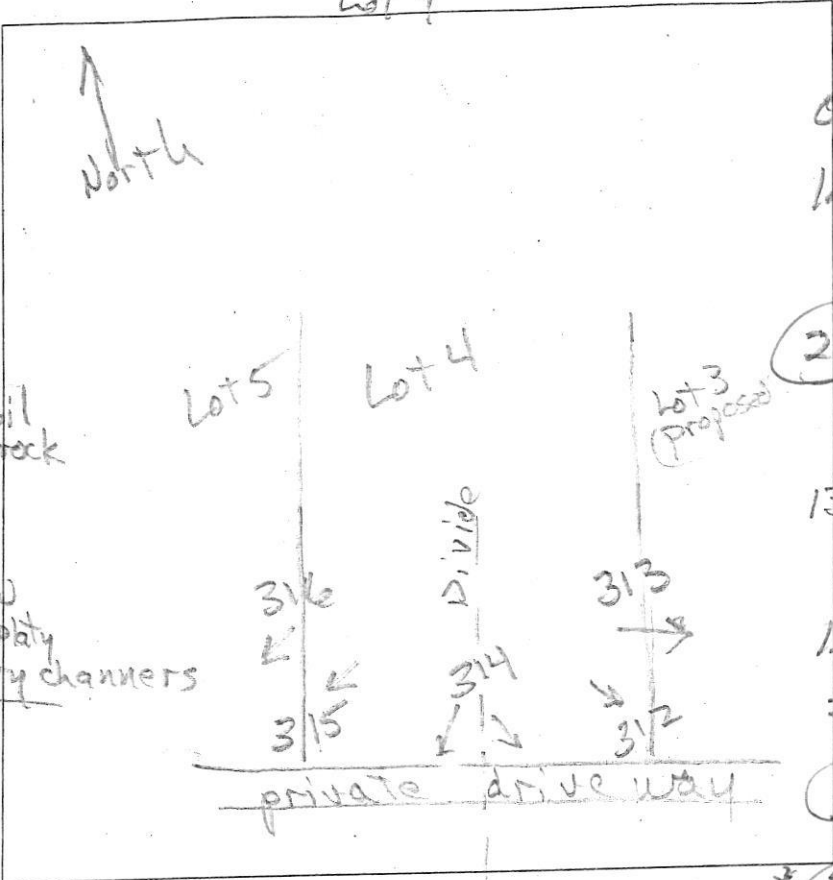
Lot 4

AVP

312

0.7' brn sil
thick platy
yel-brn chsil
thick platy
1.0' yel-red chsil
thick platy
3' yel-red chsil
4.8' yel-red chsil
Ø m, 40% rock
red chsil
thin platy
7.5' red & yellow
chsil, thin platy
35% splintery channers

North ↑



313
0.7' brn sil
thick platy
yel-red sil
coarse prismatic
1.8' red & yel
sil, thin
plate
dense
2.6' red & yel
sil, thin platy
many fine
v. fine mica

314
1.1' brn sil
thick platy
yel-red sil
thick platy
2.1' yel-red sil
Ø m dense
4' red & yel sil
thick platy
red chsil
thin platy
many fine
v. fine mica

315
0.8' brn sil
thick platy
yel-red sil
coarse prismatic
2.5' yel-red sil
2 m sbk
10% channers
3.5' yel-red sil
thin platy
many v. fine
mica
8' red chsil
thin platy
many fine
v. fine mica
12' mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/14/15	312	3.7' / 11'	11:45	11:50	12:11	21	P & R
9/14/15	312	6.2' / 13'	12:20	12:24	12:32	8	P
9/14/15	313	4' / 12'	12:00	12:06	12:13	7	P
9/14/15	314	4.5' / 12'	12:48	12:54	1:01	vislow reshelf	
reshelf	314	5.4' / 12'	1:19	1:23	1:28	5	P
9/14/15	316	4.4' / 12'	1:06	1:11	1:21	10	P
9/14/15	315	4.8' / 12'	1:24	1:33	1:51	18	P

REMARKS
 SANITARIAN R. Bricker BACKHOE Level Land OTHERS Tim Feaga
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

LINDEN GROVE

ENVIRONMENTAL SITE DESIGN COMPUTATIONS

COMPANY: ESE CONSULTANTS, INC.

COMPUTATIONS BY: R.C.K./M.J.B.

DATE: 07/19/2020

LOT 4 ESD CALCULATIONS:

DRY WELL 1 (DW1):

A = (TOTAL DRAINAGE AREA) = 748 SQ. FT. (0.0172 ACRES)
Pe = 1.0" (RAINFALL TARGET)
(I) = (IMPERVIOUS AREA) = (IMPERVIOUS AREA ÷ DRAINAGE AREA)
(0.0172 ÷ 0.0172) = 1.00 = 100%
Rv = (THE DIMENSIONLESS VOLUMETRIC RUNOFF COEFFICIENT)
0.05 + (0.009 x (I)) = 0.05 + (0.009 x (100%)) = 0.95
Qe = (RUNOFF DEPTH IN INCHES THAT MUST BE TREATED)
(Pe x Rv) = (1.0 x 0.95) = 0.95 INCHES
ESDv = RUNOFF VOLUME (IN ACRES-FEET)
(Pe) x (Rv) x (A) ÷ 12
(1.0) x (0.95) x (748) ÷ 12 = 710.60 ÷ 12 = 59.22 CF.

DRY WELL 2 (DW2):

A = (TOTAL DRAINAGE AREA) = 545 SQ. FT. (0.0125 ACRES)
Pe = 1.0" (RAINFALL TARGET)
(I) = (IMPERVIOUS AREA) = (IMPERVIOUS AREA ÷ DRAINAGE AREA)
(0.0125 ÷ 0.0125) = 1.00 = 100%
Rv = (THE DIMENSIONLESS VOLUMETRIC RUNOFF COEFFICIENT)
0.05 + (0.009 x (I)) = 0.05 + (0.009 x (100%)) = 0.95
Qe = (RUNOFF DEPTH IN INCHES THAT MUST BE TREATED)
(Pe x Rv) = (1.0 x 0.95) = 0.95 INCHES
ESDv = RUNOFF VOLUME (IN ACRES-FEET)
(Pe) x (Rv) x (A) ÷ 12
(1.0) x (0.95) x (545) ÷ 12 = 517.75 ÷ 12 = 43.15 CF.

LOT 4 ESD SPECIFICATIONS:

DRY WELL 1 (LESS THAN 1,000 SQ. FT)

DRAINAGE AREA = 748 SQ. FT.
PROPOSED IMPERVIOUS AREA = 748 SQ. FT.
STORAGE AREA = (LENGTH x WIDTH x DEPTH x 0.40)
(6L x 5W x 5D x 0.4) = 60 CF
TOTAL STORAGE AREA = 60 CF

***ESD TO THE MEP IS MET**

DRY WELL 2 (LESS THAN 1,000 SQ. FT)

DRAINAGE AREA = 545 SQ. FT.
PROPOSED IMPERVIOUS AREA = 545 SQ. FT.
STORAGE AREA = (LENGTH x WIDTH x DEPTH x 0.40)
(6L x 5W x 4D x 0.4) = 48 CF
TOTAL STORAGE AREA = 48 CF

***ESD TO THE MEP IS MET**

LCT 4

ESD TO THE MEP
HYDRAULIC SOIL GROUP = B
Pe = 1"

DRAINAGE AREA 1 (PART OF DWELLING): (748 SQ. FT.)

PRACTICE: (1 ROOF DRAINS) ROOFTOP DISCONNECT TO **DRY WELL 1**
ESDV = 59.22 CF
DRY WELL 1 (DW1) = 6L X 5W X 5D X 0.4 = 60 CF

DRAINAGE AREA 2 (PART OF DWELLING): (545 SQ. FT.)

PRACTICE: (1 ROOF DRAINS) ROOFTOP DISCONNECT TO **DRY WELL 2**
ESDV = 43.15 CF
DRY WELL 2 (DW2) = 6L X 5W X 4D X 0.4 = 48 CF

DRAINAGE AREA 3 (PART OF DWELLING): (2,280 SQ. FT.)

PRACTICE: (7 ROOF DRAINS) ROOFTOP DISCONNECT
75' FLOW FROM DOWNSPOUTS WITH GRADE AT OR BELOW 5% ACHIEVED

DRAINAGE AREA 4 (DRIVEWAY PAD): (1,071 SQ. FT.)

PRACTICE: NON-ROOFTOP DISCONNECT
1:1 RATIO TO IMPERVIOUS AREA TO TREAT DRIVEWAY PAD

DRAINAGE AREA 5 (DRIVEWAY): (1,094 SQ. FT.)

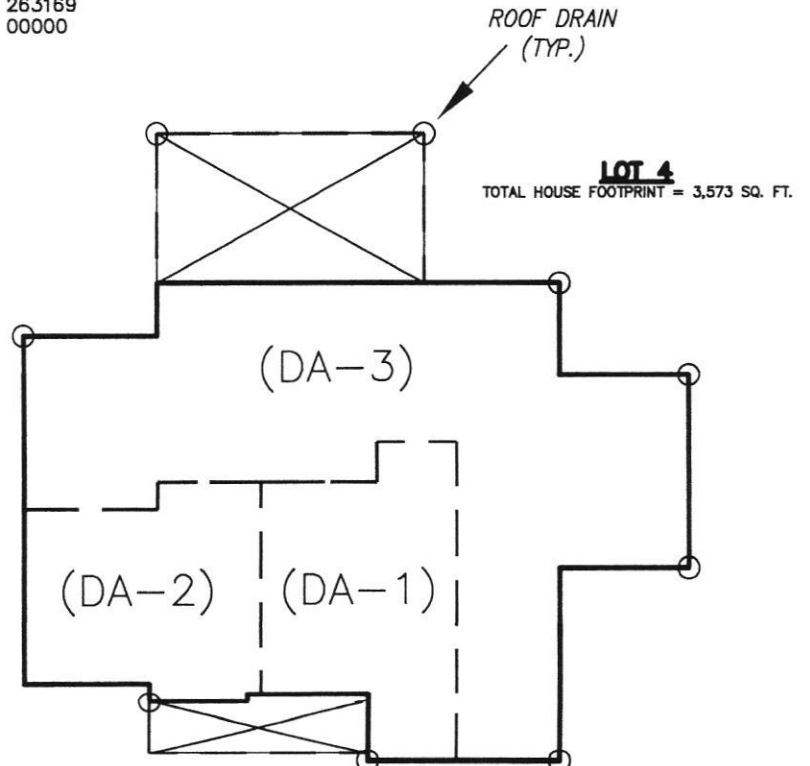
PRACTICE: NON-ROOFTOP DISCONNECT
1:1 RATIO TO IMPERVIOUS AREA PROVIDED VIA 12' BUFFER
ALONG SIDE CROSS SLOPED DRIVEWAY

TOTAL IMPERVIOUS AREA TO BE TREATED: 5,738 SQ. FT.

HOUSE TYPE: DUMONT (CRAFTSMAN)

TWO CAR SIDE ENTRY GARAGE CONFIGURATION
FINISHED LOWER LEVEL
WALK-OUT BASEMENT
ADDITIONAL WALK-IN CLOSET
ADD'L 1' TO BSMT FOUNDATION WALLS
DOUBLE WIDE DRIVEWAY TAIL
OPTIONAL DROP ZONE
ADD'L ONE CAR FRONT ENTRY GARAGE - 14'
WALK-OUT LUXURY COVERED DECK
ADDITIONAL EXTERIOR DECKING

OPTION No. 012
OPTION No. 013
OPTION No. 017
OPTION No. 030
OPTION No. 070
OPTION No. 851
OPTION No. 263081
OPTION No. 263102
OPTION No. 263169
OPTION No. 00000



LINDEN GROVE LANE

NON-ROOFTOP
DISCONNECT TO TREAT CROSS
SLOPED DRIVEWAY

HO-17-0344

HO-17-0343

RIDGEVIEW
(MODERN
FARMHOUSE)
TW=577.67'
GF=577.00'
BF=569.13'

NON-ROOFTOP
DISCONNECT TO TREAT
DRIVEWAY PAD

PUBLIC STORMWATER
DRAINAGE
& UTILITY EASEMENT

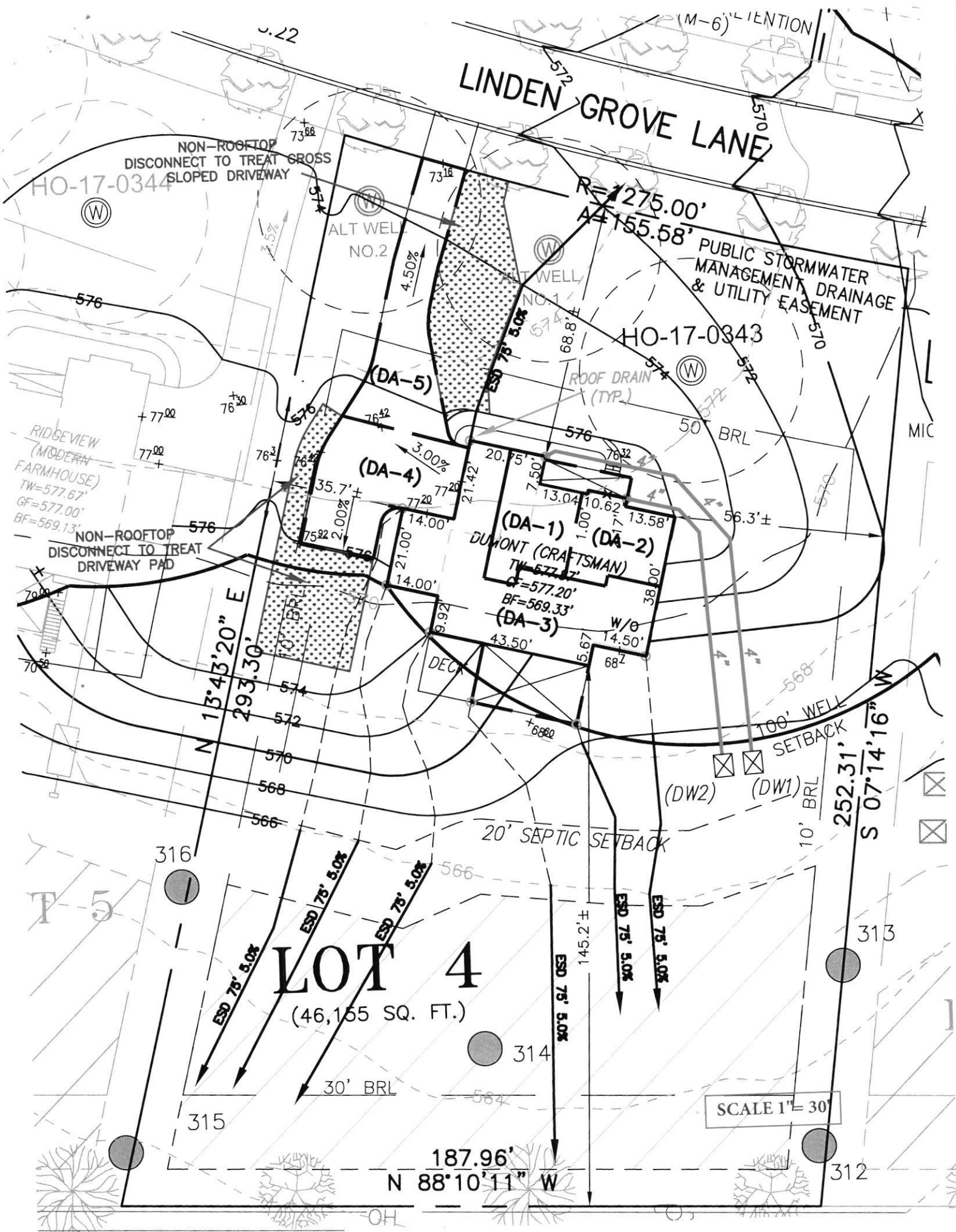
DUMONT (CRAFTSMAN)
TW=577.27'
GF=577.20'
BF=569.33'

LOT 4

(46,155 SQ. FT.)

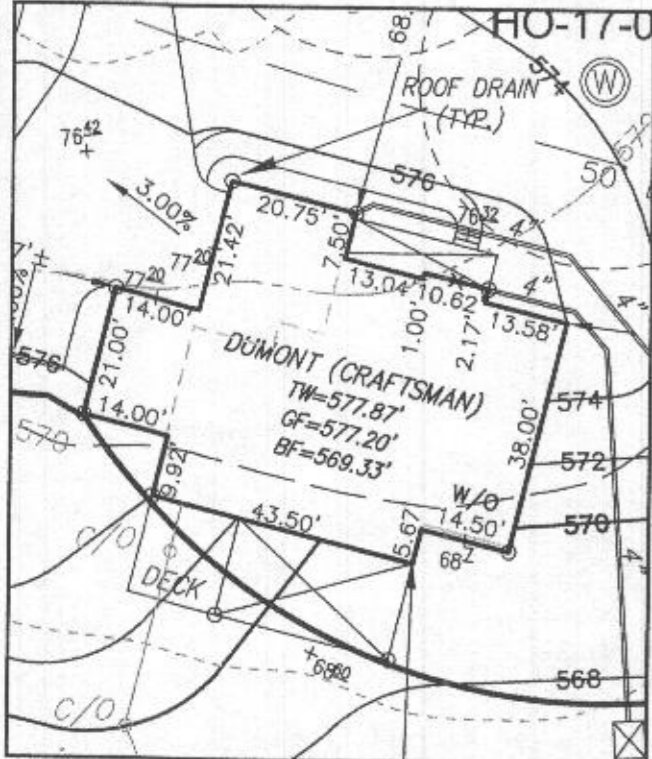
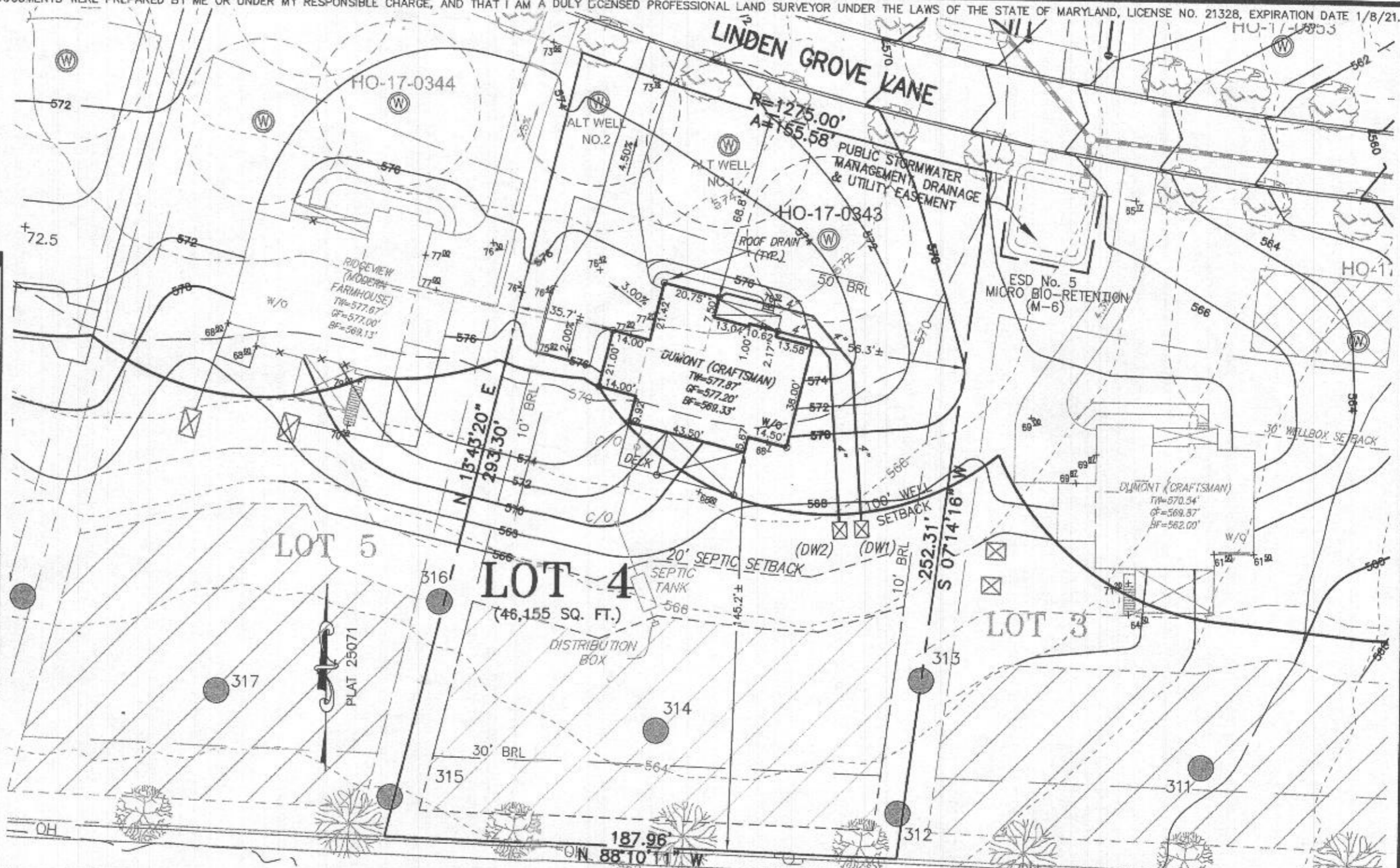
SCALE 1" = 30'

187.96'
N 88°10'11" W



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/21.

- LEGEND:**
- BRL BUILDING RESTRICTION LINE
 - W WELL LOCATION
 - T.W. TOP OF WALL
 - G.F. GARAGE FLOOR
 - B.F. BASEMENT FLOOR
 - PASSED PERC LOCATION
 - FAILED PERC LOCATION
 - ▨ SEPTIC RESERVE AREA
 - ▨ WELL BOX AREA
 - PROPOSED TREE
 - PROPOSED TREE
 - PROPOSED TREE



HOUSE ENLARGEMENT
SCALE 1" = 30'

WELL NUMBER: HO-17-0343
ADDRESS: 15617 LINDEN GROVE LANE
WOODBINE, MD 21797

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

- HOUSE TYPE: DUMONT (CRAFTSMAN)
- TWO CAR SIDE ENTRY GARAGE CONFIGURATION
 - FINISHED LOWER LEVEL
 - WALK-OUT BASEMENT
 - ADDITIONAL WALK-IN CLOSET
 - ADD'L 1' TO BSMT FOUNDATION WALLS
 - DOUBLE WIDE DRIVEWAY TAIL
 - OPTIONAL DROP ZONE
 - ADD'L ONE CAR FRONT ENTRY GARAGE - 14'
 - WALK-OUT LUXURY COVERED DECK
 - ADDITIONAL EXTERIOR DECKING

- OPTION No. 012
- OPTION No. 013
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- OPTION No. 070
- OPTION No. 851
- OPTION No. 263081
- OPTION No. 263102
- OPTION No. 263169
- OPTION No. 00000

PLOT PLAN
LOT 4
LINDEN GROVE
LIBER 15899, FOLIO 246
PLAT NO. 25071
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

SWM Plan
2/2/20

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENT

ESE Consultants, Inc.
7164 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046
T: 410-872-9105

DATE: 07/16/2020 SCALE: 1"=40' FILE: PP LOT 4 - DUMONT CRAFT.
CHK'D: M.J.B. JOB NO: 4683 DRAWN: R.C.K.

