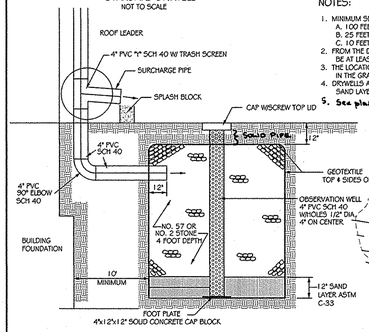
STANDARD DRYWELL
NOT TO SCALE



NOTES:

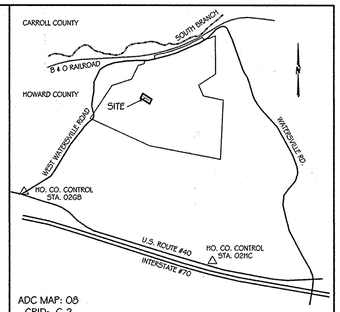
1. MINIMUM SETBACKS:
   A. 100 FEET FROM WELLS
   B. 25 FEET FROM SEPTIC AREAS
   C. 10 FEET FROM BUILDINGS
2. FROM THE DOWNSPOUT TO THE DRYWELL THE DRAIN PIPE MUST BE AT LEAST 6' BELOW GRADE.
3. THE LOCATIONS AND SIZE OF ALL DRYWELLS MUST BE SHOWN IN THE GRADING PLOT PLAN.
4. DRYWELLS ARE TO HAVE 4 FEET OF STONE WITH A 12 INCH SAND LAYER BELOW THE STONE.
5. See plan view for dimensions.

SITE ANALYSIS DATA SHEET	ACRES
PROPOSED SITE USE	RESIDENTIAL
WETLANDS	0.00
WETLANDS BUFFER	0.00
FLOODPLAIN	0.00
FORESTS	0.00
STEEP SLOPES (>20%)	0.00
MODERATE SLOPES (15-20%)	0.33
TOTAL PROJECT AREA	1.00
LOD AREA	0.54
GREEN OPEN SPACE AREA	0.91
EX. IMPERVIOUS AREA	0.00
PROP. IMPERVIOUS AREA	0.09
HIGHLY ERODIBLE SOILS IN PROJECT AREA	0.67

SOIL LEGEND

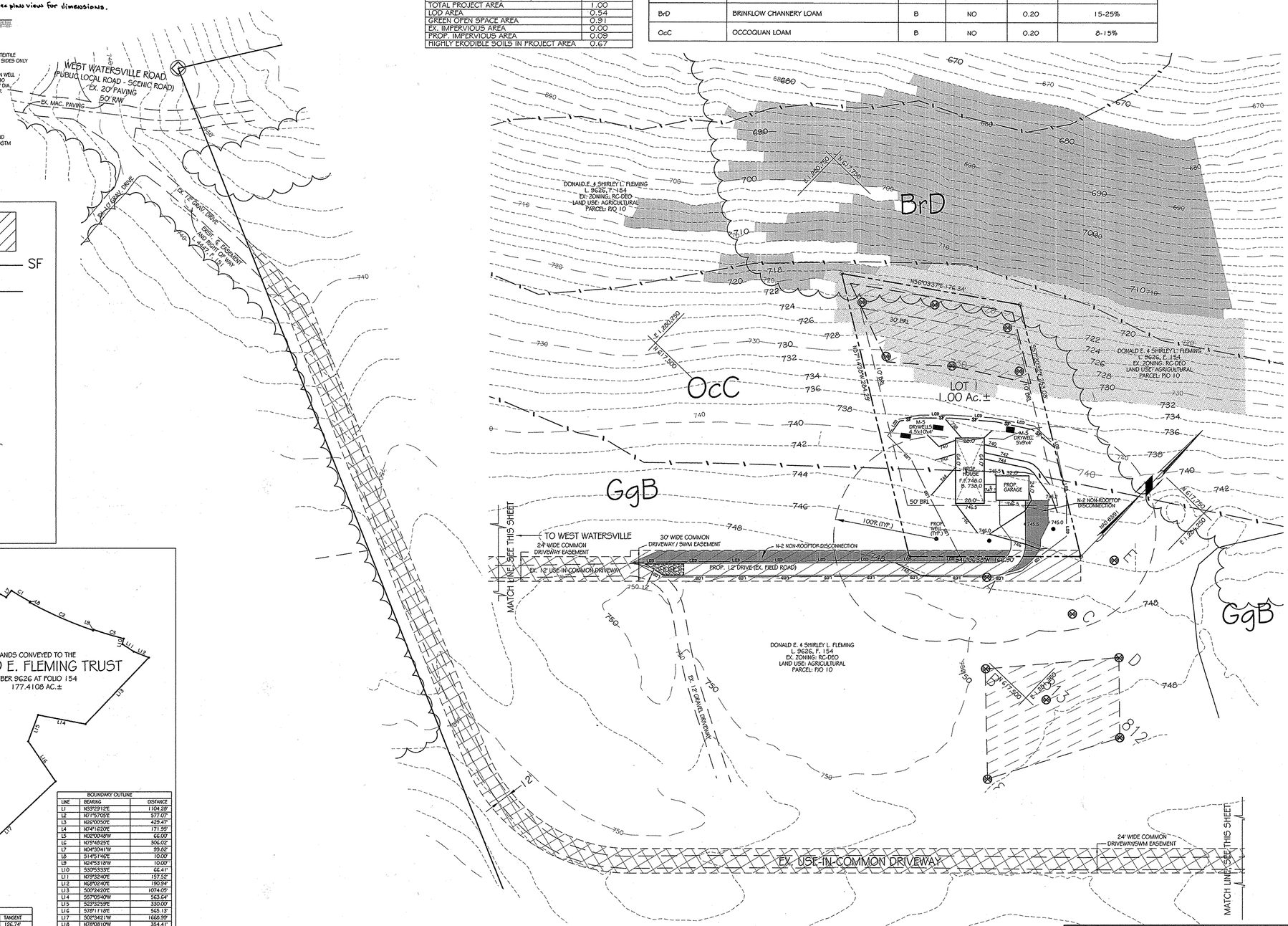
MAP SYMBOL	MAPPING UNIT	HYDROLOGIC SOIL GROUP	HYDRIC? COMPONENTS	Kw	SLOPE
GgB	GLENELG LOAM	B	NO	0.20	3-8%
BrD	BRINKLOW CHANNERY LOAM	B	NO	0.20	15-25%
OcC	OCCOQUAN LOAM	B	NO	0.20	8-15%

OWNER / DEVELOPER:
DONALD E. & SHIRLEY L. FLEMING
C/O BRENDA FLEMING WARREN
611 WEST WATERSVILLE ROAD
MT. AIRY, MARYLAND 21771
MU. (301) 481-5852



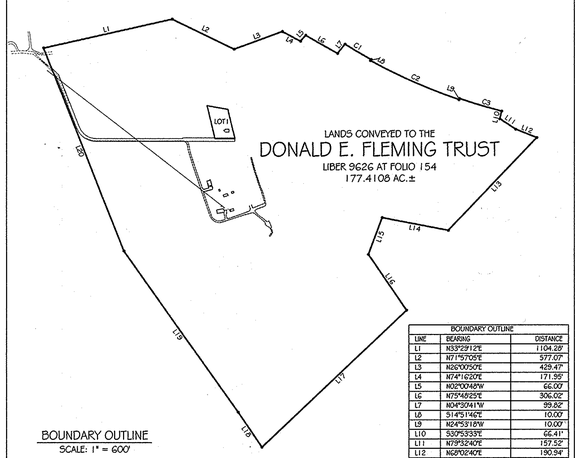
ADC MAP: 08
GRID: C-2

VICINITY MAP
SCALE: 1" = 2,000' TAX MAP 2 PARCEL 10



LEGEND

- PROPOSED SEPTIC SYSTEM
- SILT FENCE — SF ——— SF ——— SF
- LIMIT OF DISTURBANCE — ——LOD——
- (PASSED) PERCOLATION TEST SITE:
- EXISTING WELL:
- PROPOSED HOUSE SITE:
- PROPOSED WELL SITE:
- EXISTING TREE LINE
- "STEEP" SLOPES AS DEFINED BY HOWARD CO. SCD (>20% SLOPE)
- MODERATE SLOPES 15% - 20%



BOUNDARY OUTLINE
SCALE: 1" = 600'

BOUNDARY OUTLINE		
LINE	BEARING	DISTANCE
L1	N33°29'12"E	1104.39'
L2	N71°57'05"E	577.07'
L3	N26°00'50"E	429.47'
L4	N74°16'20"E	171.96'
L5	N03°00'48"W	66.00'
L6	N75°49'25"E	306.02'
L7	N04°30'41"W	99.82'
L8	S14°51'42"E	10.00'
L9	N24°53'18"W	10.00'
L10	S30°53'33"E	66.41'
L11	N79°32'40"E	157.52'
L12	N68°02'40"E	190.34'
L13	S00°24'20"E	1074.05'
L14	S57°09'40"W	563.64'
L15	S23°32'59"E	330.00'
L16	S78°11'18"E	565.13'
L17	S02°34'21"W	1665.99'
L18	N76°00'10"W	354.41'
L19	N79°09'44"W	1658.34'
L20	N65°24'34"W	1834.99'

CURVE DATA FOR BOUNDARY OUTLINE						
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH	TANGENT
C1	4623.75'	253.42'	03°08'25"	N76°42'26"E	253.39'	126.74'
C2	4633.75'	810.80	10°01'32"	N70°07'29"E	809.77'	406.44'
C3	4623.75'	369.49'	04°54'43"	N62°49'21"E	369.40'	184.85'

GENERAL NOTES:

1. OWNER: DONALD E. FLEMING & SHIRLEY L. FLEMING, TRUSTEES
   DEED REFERENCE: LIBER 9626 AT FOLIO 154
   DATE: JULY 11, 2005
   GRANTOR: DONALD E. FLEMING & SHIRLEY L. FLEMING
2. TAX MAP: 2 GRID: 14 PARCEL: 10
3. NEAREST POTABLE WATER SUPPLY: MT. AIRY DISTANCE: 2.0 MILES ±.
4. THE SUBJECT PROPERTY IS NOT LOCATED IN SPECIAL FLOOD HAZARD AREA PER NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP,COMMUNITY PANEL NO. 24027C0030D, EFFECTIVE NOVEMBER 6, 2013.
5. ON-SITE TOPOGRAPHY FROM FIELD-RUN TOPO BY VANMAR ASSOCIATES IN NOVEMBER 2015. OFF-SITE TOPOGRAPHY & PLANIMETRIC FEATURES TAKEN FROM COPYRIGHTED GIS DATA FROM HOWARD COUNTY. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD88.
6. THE BASIS OF BEARINGS FOR THIS PLAN IS THE MARYLAND COORDINATE SYSTEM (NAD83/91) PER HOWARD COUNTY SURVEY CONTROL STATIONS:
   H0.CO.#021RC N.612,924.256 E. 1,262,816.993
   H0.CO.#020B N.614,976.569 E. 1,277,363.299
   DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
7. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.
8. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
9. SOIL TYPE: GLENELG LOAM (GgB), BRINKLOW CHANNERY LOAM (BrD), OCCOQUAN LOAM (OcC)
10. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/06/13 COMPREHENSIVE ZONING REGULATIONS.
11. ALL WELLS TO BE DRILLED PRIOR TO FINAL PLAT SIGNATURE. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO THE FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREAS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
13. THERE ARE NO HISTORIC SITES OR CEMETERIES ON THIS PROPERTY.
14. NO ENVIRONMENTAL FEATURES EXIST WITHIN THE LOD.
15. NO SPECIMEN TREES ARE PROPOSED FOR REMOVAL.
16. THIS LOT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202(b)(1)(v) WHICH STATES THAT AGRICULTURAL PRESERVATION SUBDIVISIONS ARE EXEMPT.
17. HOWARD COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE DELINEATION OF STEEP SLOPES WITH GRADIENTS OF 20% OR MORE.
18. LANDSCAPING REQUIREMENTS FOR THIS LOT IS IN ACCORDANCE WITH THE ALTERNATE COMPLIANCE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL AS A RESULT OF THE LOT SITE LOCATION WITHIN THE FARMS INTERIOR.
19. STORMWATER MANAGEMENT REQUIREMENTS WILL BE ADDRESSED USING NON-ROOFTOP DISCONNECTION (N-2) AND DRYWELLS (M-5). SWM IS IN ACCORDANCE THE 2009 REVISIONS OF THE 2000 MD STORMWATER DESIGN MANUAL AND ADDRESSES ESD TO THE MEP.
20. ALL AREAS SHOWN HEREON ARE + OR -, MORE OR LESS.
21. TOTAL LIMIT OF DISTURBANCE = 23,488.50, FT. OR 0.5392 AC.±
22. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OB A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGINCTS PER TO FOLLOWING MINIMUM REQUIREMENTS:
    a) Width - 12(16' serving more than one residence).
    b) Surface - 6" of compacted crusher run base with tar and chip coating - 1-1/2" min.)
    c) Geometry - Maximum 15% grade, maximum 10% grade change and minimum 45-foot turning radius.
    d) Structures (culvert/bridges) - Capable of supporting 25 gross tons (H25 loading)
    e) Drainage Elements - Capable of safely passing 100 year flood with with no more than 1 foot depth over driveway surface.
    f) Structure clearances - minmum 12 feet.
    g) Maintenance - sufficient to ensure all weather use.
23. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
24. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
25. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
26. THERE ARE NO WETLANDS, STREAMS, FLOOD PLAINS OR BUFFERS ON THIS SITE.
27. THE FOLLOWING SETBACKS APPLY TO THE PROPOSED HOUSE ON LOT 1.
    DISTANCE TO WELL: 30'
    DISTANCE TO SEPTIC: 20'
28. THE PROPERTY IS NOT LOCATED WITHIN THE METROPOLITAN DISTRICT.
29. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
30. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
31. PREVIOUS FILE NUMBER(S): ECP-16-010
32. THE USE-IN-COMMON DRIVEWAY WILL SERVE THREE (3) HOUSES LOCATED ON THE FAMILY FARM.
33. A COMMUNITY MEETING WAS HELD ON AUGUST 27, 2015 AT 6:00PM AT THE LISBON VOLUNTEER FIRE DEPARTMENT.
34. THIS PLAN IS NOT TO BE UTILIZED TO OBTAIN SEDIMENT CONTROL PERMITS.

DESIGN NARRATIVE

1. THERE ARE NO WATERWAYS, FLOODPLAINS, WETLANDS OR BUFFERS ON THE PROPERTY.
2. NATURAL FLOW PATTERNS WILL NOT BE AFFECTED BY THE PROPOSED SUBDIVISION.
3. IMPERVIOUS AREAS HAVE BEEN REDUCED THROUGH THE USE OF NON-STRUCTURAL STORMWATER MANAGEMENT PRACTICES.
4. THE DESIGN ACHIEVES INTEGRATION OF EROSION AND SEDIMENT CONTROLS INTO THE SWM STRATEGY BY LIMITING THE AMOUNT OF DISTURBED AREA, BY MAINTAINING NATURAL VEGETATION AND MAINTAINING NATURAL DRAINAGE PATTERNS.
5. STORMWATER MANAGEMENT REQUIREMENTS WILL BE ADDRESSED USING NON-ROOFTOP DISCONNECTION AND DRYWELLS. SWM IS IN ACCORDANCE WITH THE 2009 REVISIONS OF THE 2000 MD STORMWATER DESIGN MANUAL AND ADDRESSES ESD TO THE MEP.
6. THERE ARE NO WAIVER PETITIONS PROPOSED.

0 50' 100' 150'
SCALE: 1" = 50'

APPROVED

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 3-30-16
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 3-30-16

NT

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. 43203, Expiration Date: 12-20-2016.

STATE OF MARYLAND — MELANIE WINN PRICE — No. 43203 — PROFESSIONAL ENGINEER
3/11/16

DATE	REVISIONS

SUPPLEMENTAL PLAN
SOILS/ TOPOGRAPHY/ GRADING/ STORMWATER MANAGEMENT
LOT 1

ELM-LEE FARM

LIBER 9626 AT FOLIO 154

TAX MAP: 2	ELECTION DISTRICT: No. 4	SCALE: 1" = 50'
GRID NO: 14	HOWARD COUNTY, MARYLAND	DATE: MARCH, 2016
PARCEL NO: 10	EX. ZONING: RC-DEO	SHEET 1 OF 1

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