GENERAL NOTES

- . THE PROJECT SHALL BE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY REQUIREMENTS UNLESS WAIVERS OR ALTERNATIVE COMPLIANCE PETITIONS HAVE BEEN APPROVED. THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHICAL SURVEY PERFORMED BY
- ROBERT H. VOGEL, ENGINEERING, INC. ON JANUARY 2017 AND OFFSITE TOPOGRAPHY IS BASED ON HOWARD 3. THE PROJECT SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY PERFORMED BY ROBERT H.
- VOGEL ENGINEERING, INC., DATED JANUARY, 2017. THE SUBJECT PROPERTY IS ZONED "R-12" IN ACCORDANCE WITH THE 10/6/2013 COMPREHENSIVE ZONING
- . NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN
- 6. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 0056 AND 37GB WERE USED FOR THIS PROJECT THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 8. WATER FOR THIS PROJECT IS TO BE SERVICE CONNECTIONS FROM CONTRACT NO. 671-W. . SEWER FOR THIS PROJECT IS TO BE SERVICE CONNECTIONS FROM CONTRACT NO. 20-1264. O. EXISTING UTILITIES LOCATED FROM CONTRACT AND AS-BUILT DRAWINGS. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- 11. THERE ARE NO WETLANDS, STREAMS OR THEIR BUFFERS PRESENT ON THE PROPERTY. NO 100 YEAR FLOODPLAIN IS PRESENT ON THE SITE. NO STEEP SLOPES OVER 20,000 SF OF CONTIGUOUS AREA ARE PRESENT
- 12. FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT SHALL BE ADDRESSED BY A FOREST CONSERVATION
- PLAN SUBMITTED WITH THE FUTURE SITE DEVELOPMENT PLAN. 13. NO RARE, THREATENED OR ENDANGERED SPECIES OR THEIR HABITAT WERE OBSEREVED ON THE PROPERTY. 14. GEOTECHNICAL INVESTIGATIONS SHALL BE COMPLETED AS PART OF THE SITE DEVELOPMENT PLAN PACKAGE.
- 15. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT. 16. FOREST STAND DELINEATION PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. C/O MR. JOHN CANOLES.
- MR. CANOLES IDENTIFIED 4 SPECIMEN TREES ON THE PROJECT SITE. THIS PLAN PROPOSAL REQUIRES THE REMOVAL OF 2 SPECIMEN TREES. THE REQUIRED PETITION SHALL BE REQUESTED WITH A FUTURE SUBDIVISION PLAN. 7. ALLEN LANE IS CLASSIFIED AS A LOCAL ROAD.
- 18. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS PROPERTY.
- 19. THERE ARE TWO EXISTING STRUCTURES ON THIS SITE TO BE REMAINED. 20. THE PROPOSED UNITS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- 21. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF MICRO-BIORETENTIONS (M-6) FACILITIES AND DRYWELLS (M-5) IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED. . APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY
- SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS,
- 5. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT APPROVAL OF THE PROPOSED SEDIMENT CONTROL SCHEME. 24. THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT
- PLAN, WAIVER PETITION APPLICATION OR BUILDING/ GRADING PERMIT APPLICATIONS PERIMETER LANDSCAPING WILL BE PROVIDED AT THE FINAL SUBDIVISION PLAN STAGE
- THERE ARE ERODIBLE SOILS ON THE PROPERTY

ENVIRONMENTAL SITE DESIGN NARRATIVE

1. THERE ARE NO WETLANDS OR STREAMS LOCATED ON OR IN CLOSE PROXIMITY TO THE LOTS. THERE ARE FOUR SPECIMEN TREES. SPECIMENT TREE #2 IS LOCATED JUST OUTSIDE THE PROPERTY LINE THERE ARE THREE SPECIMEN TREES LOCATED ON SITE, ONE WILL BE RETAINED AND TWO WILL BE REMOVED. AN ALTERNATIVE COMPLIANCE PETITION WILL BE REQUIRED FOR THE REMOVAL OF TWO TREES.

- 2. THE PROPOSED GRADING DOES NOT ALTER THE EXISTING DRAINAGE PATTERNS.
- 3. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT. THE ESD CONCEPT UTILIZES MICRO-SCALE PRACTICES INCLUDING MICRO-BIORETENTION FACILITIES (M-6), RAIN GARDEN (M-7), AND

DRYWELLS (M-5).

4. SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE OF SUPER SILT FENCE AND CLEAR WATER EARTHDIKE PERIMETER CONTROLS. SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH CURRENT REQUIREMENTS. AND SHALL BE APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

5. STORMWATER MANAGEMENT FOR THE PROJECT SHALL BE MET THROUGH THE USE OF THE MICRO-SCALE PRACTICES INCLUDING MICRO-BIORETENTION (M-6) FACILITIES, RAIN GARDEN (M-7), AND DRYWELLS (M-5). THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT "WOODS IN GOOD CONDITION".

TARGET PE = 1.45" PROVIDED PE = 1.45" TARGET ESDV = 1,903 CF PROVIDED = 1.911 CF

6. AT THE SUBDIVISION PHASE, AN ALTERNATIVE COMPLIANCE PETITION WILL BE REQUIRED FOR SPECIMEN TREE REMOVAL. THERE ARE NO OTHER DEVIATIONS ANTICIPATED AT THIS STAGE.

7. ANY FOREST CONSERVATION REQUIREMENTS WILL BE PROVIDED IN AN OFFISTE FOREST BANK OR BY PAYMENT OF A FEE IN LIEW OF FOREST CONSERVATION.

8. THERE ARE NO STEEP SLOPES OVER 20,000 SF CONTIGUOUS AREA, THERE IS NO FOREST OR FLOODPLAIN WITHIN THE SITE. SOILS PRESENTED ON SITE ARE TYPE 'B' AND 'D'.

SITE ANALYSIS DATA CHART

- A, TOTAL PROJECT AREA: B. AREA OF PLAN SUBMISSION; C. AREA OF WETLANDS AND BUFFERS: D. AREA OF FLOODPLAIN: 0,00 AC. E. AREA OF FOREST: 0.00 AC F. AREA OF STEEP SLOPES (15% & GREATER):
- G. AREA OF ERODIBLE SOILS: 2.26 AC H. LIMIT OF DISTURBED AREA: 1.13 AC. I. PROPOSED USES FOR SITE AND STRUCTURES: RESIDENTIAL SINGLE FAMILY DETACHED (SFD) HOMES
- J. GREEN OPEN AREA: K. PROPOSED IMPERVIOUS AREA: L. PRESENT ZONING DESIGNATION: M. OPEN SPACE REQUIRED:
- N. TOTAL NUMBER OF UNITS ALLOWED: D. TOTAL NUMBER OF UNITS PROPOSED: P. DPZ FILE REFERENCES:
- 1.945 AC. 0.34 AC. R - 12O AC. N/A

L.8 / F.20, L.8 / F.67

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

ENVIRONMENTAL CONCEPT PLAN LARRICK SUBDIVISION

A RESUBDIVISION OF LOT 3, "ANNETTA GARDENS-SECTION 1" AND LOT 4, "ANNETTA GARDENS-SECTION 2" HOWARD COUNTY, MD



LAND USE CATEGORY: (from table 3-2.1, page 40, Manual) ARA MDR IDA HDR MPD CIA R-12		forming my missing the modern of the missing of the						
E. Alforestation Threshold (percentage) [15	0.3	· Company	inotechierida					
F Conservation Threshold (percentage) 20					SPECIME	V TREE CHART		
EXISTING FOREST COVER:		NO). ₀	SIZE N. DBH)	CRZ (FEET RADRUS)	COMMON NAME	CONDITION	COMMENTS
$\begin{cases} -1 + (1 + 1)^{-1/2}$	mingen mangament of the second se	ST	diam'r.	34.5	51.75	BLACK OAK	GOOD CONDITION	TO BE REMOVED
G. Existing forest cover (excluding floodstain)	<u> </u>	IST	21	32.5	48.75	WHITE OAK	FAIR CONDITION, LIMITED CANOPY	TO REMAIN
H. Area of forest above afforestation threshold	0		- }-			والمراب من مساوي والمناه مساوي والمساوي المساوي والمساوي والمساوي والمساوي والمساوي		
Area of forest above conservation threshold	Ģ	[5]	31	51 1	46.5	SILVER MAPLE	TWIN SEMS	TO BE REMOVED
	foris - mortage men - more	ST	4	30	45	SILVER MAPLE	TWIN SEMS	TO REMAIN

Area of existing imparylous surface/upcharged use

BREAK EVEN POINT

C Ciesto coming with the religion

Total area of forest to be Relained in FCE

Total afforestation required. Total reforestation and afforestation required

Total area of forest to be Cleared or Retained Outside FCE

Reforestation for clearing below Conservation Thresho

PROPOSED FOREST CLEARING

PLANTING REQUIREMENTS

	MINIMUM I	OT SIZE CH	IART
LOT #	GROSS AREA	PIPESTEM AREA	NET AREA
2	13,797 SF	834 SF	12,963 SF
3	14,814 SF	1.445 SF	13,369 SF
4	15,607 SF	1,405 SF	14,202 SF
5	14,181 SF	860 SF	13,321 SF

SYMBOL	NAME / DESCRIPTION	GROUP	K FACTOR	ERODIBLE	HYDRIC
SrC	SASSAFRAS AND CROOM SOILS, 5 TO 10 PERCENT SLOPES	8	0.37	YES	NO
UsD	URBAN LAND-SASSAFRAS-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES	D	0.37	YES	NO
СеВ	CHILLUM LOAM, 2 TO 5 PERCENT SLOPES	8	0.37	YES	NO
FoA	FALLSINGTON SANDY LOAM, O TO 2 PERCENT SLOPES	0	0.02	NO I	YES

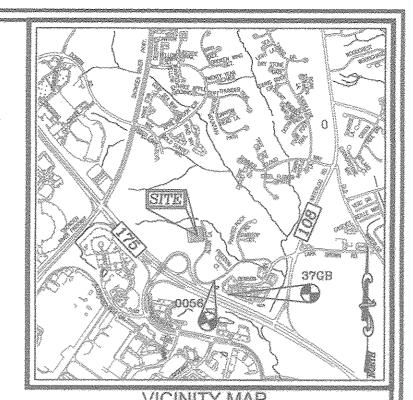
TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, HOWARD COUNTY HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

NOTES:

1. ALL WATER CONNECTIONS SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.28 OUTSIDE METER SETTINGS.

BENCHMARKS

HOWARD COUNTY BENCHMARK - 0056 N 553723.18 E 1368212.59 ELEV.: 328.57 HOWARD COUNTY BENCHMARK - 37GB N 553452.82 E 1368503.19 ELEV.: 325.23



Α	OC 1	COORDIA		34.	8-4

DESCRIPTION		SHEET	NO.
COVER SHEET A	ND ESDV CONCEPT PLAN	1 0F	2

LEGEND

eliteriteriteriteriteriteriteriteriteriter	EXISTING PAVING
TO.	EXISTING UTILITY POLE
	EXISTING MAILBOX
	EXISTING SIGN
\$ 0 P	EXISTING SANITARY MANHOLE
	EXISTING SANITARY LINE
0.00	EXISTING CLEANOUT
To AM	EXISTING FIRE HYDRANT
with the speciments that the property and the specimen are specimen to the spe	EXISTING WATER LINE EXISTING STORM DRAIN LINE
at more than the second of for a more and the more and for the second of	EXISTING WOOD FENCE
M_{A}	EXISTING OVER HEAD LINE
	PROPERTY LINE
New Schools and American Schools and American Am	RIGHT-OF-WAY LINE
	MICRO-BIORETENTION (M-6) /RAIN GARDEN (M-7)
	EXISTING TREELINE
. ~~~~~~~~	PROPOSED TREELINE
	PROPOSED STORM DRAIN
	PROP. 24' USE IN COMMON ACCESS EASEMENT
£\$ 0	EXISTING VEGETATION
	EXISTING SPECIMEN TREE
	PROPOSED DRYWELL
	PROPOSED ADDRESS SIGN

OWNER/DEVELOPER MICHAEL LARRICK

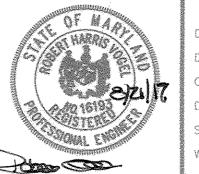
6604 ALLEN LANE COLUMBIA, MD 21045 (443)-506-0197 **ENVIRONMENTAL CONCEPT PLAN**

COVER SHEET AND **ESDV CONCEPT PLAN** ARRICK SUBDIVISION LOTS 1 - 6 A RESUBDIVISION OF LOT 3. "ANNETTA GARDENS-SECTION 1"

AND LOT 4, "ANNETTA GARDENS-SECTION 2" TAX MAP: 37 PARCELS: 475 & 485 6TH ELECTION DISTRICT

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS . SURVEYORS . PLANNERS

8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: RHY CHECKED BY: DATE: <u>AUGUST 2017</u> AS SHOWN W.O. NO.: 16-38

ROFESSIONAL CERTIFICATE

SHEET

BLOCK: 19 ZONING: R-12 HOWARD COUNTY, MARYLAND

