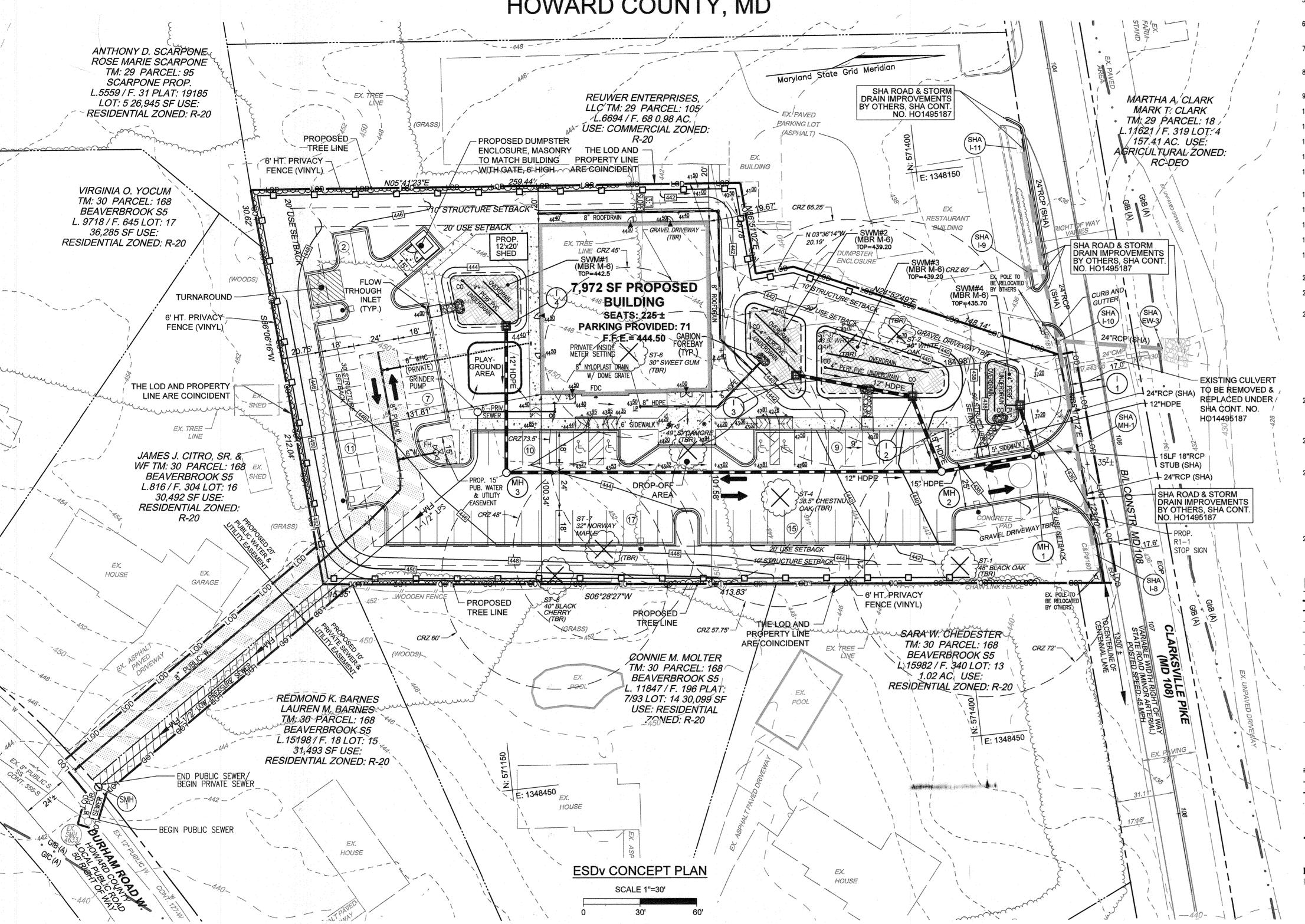
ENVIRONMENTAL CONCEPT PLAN NEW PATH REFORMED CHURCH

10425 CLARKSVILLE PIKE (MD RTE 108) HOWARD COUNTY, MD



	140	MAPPED SOILS TYPES - HOWARD COUNTY, MARYLAND				
HIGHLY ERODIBLE	Kw RANGE	HYDRIC	GROUP	NAME/DESCRIPTION	SYMBOL	
NO.	0.28	NO NO	A	GLADSTONE-URBAN LAND COMPLEX, 0 TO 8% SLOPES	GfB	
•	0.28	NO	A	GLADSTONE-URBAN LAND COMPLEX, 0 TO 8% SLOPES	GfB	

TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, AND HOWARD COUNTY SOIL CONSERVATION DISTRICT WEBSITE DOCUMENTS 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.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

CHIEF, DIVISION OF LAND DEVELOPMENTY

KEY (X#)	SPECIES	SIZE (IN. DBH)	CRZ (FEET RADIUS)	COMMENTS	
1	BLACK OAK	48	72	POOR TO FAIR, DECAY IN LOWER TRUNK	TO BE REMOVED
2	WHITE OAK	40	60	POOR, SOME DIEBACK, LIMITED CROWN	TO BE REMOVED
3	WHITE OAK	43.5	65.25	GOOD TO FAIR CONDITION	TO BE REMOVED
4	CHESTNUT OAK	38.5	57.75	GOOD CONDIITON, LEANING CROWN	TO BE REMOVED
5	SYCAMORE	49	73.5	GOOD CONDITION, VINE COVER	TO BE REMOVED
6	SWEET GUM	30	45	GOOD CONDITION	TO BE REMOVED
7	NORWAY MAPLE	-32	48	POOR, STORM DAMAGE	TO BE REMOVED
8	BLACK CHERRY	40*	60	POOR, MULTI-STEMMED ABOVE BH, NOTABLE ROT	TO BE REMOVED

* MEASURED MULTI-STEM TREE AT 18" FROM GROUND

GENERAL NOTES

- 1. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., PERFORMED ON JANUARY 25, 2018. OFFSITE TOPOGRAPHY FROM HOWARD COUNTY GIS.
- 3. THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED
- 4. 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. 29IF AND 30DC WERE USED FOR THIS PROJECT. HORIZONTAL DATUM (BEARINGS AND COORDINATES AS SHOWN HEREON) ARE BASED ON THE MARYLAND
- 5. THE SUBJECT PROPERTY IS ZONED R-20 PER 10/06/2013 COMPREHENSIVE ZONING PLAN AND IS SUBJECT TO THI SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/02/2003 PER COUNCIL BILL 75-2003.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS. FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS
- WATER AND FIRE SUPPRESSION SERVICE TO BE PUBLIC. CONNECTION TO BE PROVIDED ACROSS PARCEL 168 (LOT 16)
- 8. SEWER SERVICE TO BE PUBLIC. CONNECTION TO BE PROVIDED ACROSS PARCEL 168 (LOT 15) OWNED BY REDMOND AND
- CLARKSVILLE PIKE (MD RTE 108) IS A MINOR ARTERIAL
- 10. THIS PROJECT IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 11. THERE ARE NO FLOODPLAINS ON THE PROPERTY
- 12. THERE ARE NO STEEP SLOPES WITH A CONTIGUOUS AREA OF 20,000 SF LOCATED ON THE PROPERTY
- 13. THERE ARE NO WETLANDS, STREAMS OR BUFFERS LOCATED WITHIN THE PROJECT BOUNDARY
- 14. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS OR CEMETERIES ON THIS PROPERTY. THERE ARE NO EXISTING STRUCTURES ON THIS SITE TO BE REMOVED. THE SITE IS NOT LISTED ON THE HISTORIC SITES INVENTORY.
- 15. THERE ARE 8 SPECIMEN TREES ON THE SITE, ALL OF WHICH ARE TO BE REMOVED
- 16. THE FOREST CONSERVATION OBLIGATION WILL BE ADDRESSED WITH THE SITE DEVELOPMENT PLAN
- 17. A GEOTECHNICAL STUDY WILL BE PROPOSED IN CONJUNCTION WITH THE SITE DEVELOPMENT PLAN
- 18. THE PROJECT IS LOCATED IN THE COLUMBIA COMMUNITY
- 19. PROPOSED LIGHTING SHALL BE IN ACCORDANCE WITH SECTION 134.0 OF THE HOWARD COUNTY ZONING REGULATIONS. ALL LIGHTING WILL BE DIRECTED DOWN AND AWAY FROM ADJACENT PROPERTIES AND ROADS
- 22. PROPOSED SHED FOR MAINTENANCE EQUIPMENT
- 23. THIS PROJECT IS SUBJECT TO BOARD OF APPEALS CASE NO. 19-031C WHICH GRANTED THE PETITION OF NEW PATH REFORMED CHURCH FOR A RELIGIOUS FACILITY CONDITIONAL USE IN AN R-20 (RESIDENTIAL: SINGLE) ZONING DISTRICT.

THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE USES AS DESCRIBED IN THE PETITION AND DEPICTED ON THE CONDITIONAL USE PLAN (JUNE 2019) AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS TO THE PROPERTY, PETITIONER SHALL COMPLY WITH ALL AGENCY COMMENTS, LIGHTING SHALL BE RESIDENTIAL IN CHARACTER AND ORIENTED AWAY FROM RESIDENCES AND IN COMPLIANCE WITH COUNTY LIGHTING

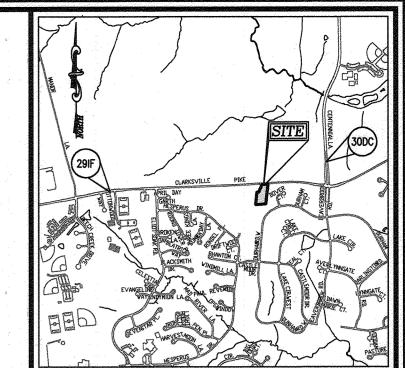
- 24. THERE IS A STATE HIGHWAY ADMINISTRATION PROJECT (CONTRACT NO. HO1495187) PROPOSED FOR IMPROVEMENTS TO ROUTE 108 IN THE VICINITY OF THE CENTENNIAL LANE/BEAVERBROOK ROAD INTERSECTION THAT EXTEND ALONG THE ROUTE 108 PROPERTY FRONTAGE. THE MDSHA IMPROVEMENTS ARE SHOWN ON THIS PLAN AS "BY OTHERS". THE PROPOSED PRIVATE STORM DRAIN SYSTEM WILL CONNECT TO THE PROPOSED MDSHA STORM DRAIN SYSTEM IMPROVEMENTS.
- 25. STORMWATER MANAGEMENT FOR THE PROJECT IS PROVIDED BY THE USE OF MICRO-SCALE PRACTICES IN ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA SYSTEM. THE MICRO-SCALE PRACTICE USED IS MICRO-BIORETENTION (M-6). THESE FACILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED
- 26. 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.
- 27. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT GRANT APPROVAL OF THE PROPOSED SEDIMENT CONTROL SCHEME. THE FINAL PLAN SHALL INCLUDE A SEQUENCE OF CONSTRUCTION WHICH SHALL DETAIL SEDIMENT & EROSION CONTROLS AND PHASING AND ADDRESS THE PROJECT TEMPORARY STORMWATER

PROPOSED STORM DRAIN (MDSHA

IMPROVEMENTS BY OTHERS)

PROPOSED SIDEWALK

PROPOSED STORM DRAIN INLET



VICINITY MAP SCALE: 1"=2,000"

ADC MAP COORDINATE: 4935-A3

BENCHMARKS

HOWARD COUNTY BENCHMARK 29IF N 571309.766 E 1345093.245 ELEV. 444.45

HOWARD COUNTY BENCHMARK 30DC N 571937.682 E 1349597.155 ELEV. 421.40

SITE ANALYSIS DATA SHEET

LOCATION: COLUMBIA, MD; TAX MAP 29, BLOCK	18. PARCEL 106
5TH ELECTION DISTRICT	
PRESENT ZONING: R-20	
TOTAL PROJECT AREA:	77,145 SF OR 1.771 AC.
MINIMUM LOT SIZE:	1.0 AC.
DEED REFERENCE:	L.17973/F.380
PROPOSED USE OF STRUCTURE:	RELIGIOUS FACILITY
	A 2,387 SF SANCTUARY, A 2,158 SF FELLOWSHI
	AREA, OFFICES & CLASSROOM SPACE W/IN THE
	7,972 SF PROPOSED BUILDING
ALLOWABLE LOT COVERAGE (BUILDINGS):	19,286 SF OR 0.443 AC. (25% OF GROSS AREA
PROPOSED LOT COVERAGE (BUILDINGS):	7,972 SF OR 0.183 AC. (10.3% OF GROSS ARE
ALLOWABLE BUILDING HEIGHT:	34 FT
PROPOSED BUILDING HEIGHT:	21.96 FT
POST DEVELOPED IMPERVIOUS AREA:	39,360 SF OR 0.904 AC.
POST DEVELOPED GREEN AREA:	37,785 SF OR 0.867 AC.
LIMIT OF DISTURBED AREA (LOD):	83,008 SF OR 1.906 AC.
AREA OF WETLANDS & WETLAND BUFFERS:	0.00 AC.
STREAMS AND THEIR BUFFERS WITHIN LOD:	0.00 AC.
AREA OF ON-SITE 100 YEAR FLOODPLAIN:	0.00 AC.
AREA OF EXISTING FOREST WITHIN LOD:	0.00 AC.
ADEA OF STEED SLODES 159 AND OPEATED.	0.00 40

58,706 SF OR 1.348 AC.

35,040 SF OR 0.804 AC. 23,666 SF OR 0.543 AC.

PARKING TABULATION

AREA OF ERODIBLE SOILS:

AREA MANAGED BY ESDV:

IMPERVIOUS AREA MANAGED BY ESDV

GREEN AREA MANAGED BY ESDV:

REQUIRED PARKING:	
ASSEMBLY AREA (SANCTUARY + FELLOWSHIP)	4,545 SF
SANCTUARY FELLOWSHIP	2,387 SF 2,158 SF
10 SPACES PER 1,000 SF OF ASSEMBLY AREA ACCESSIBLE PARKING SPACES REQUIRED	46 SPACES 3 SPACES (1 VAN)
PROVIDED PARKING:	
STANDARD PARKING (9' X 18') ACCESSIBLE SPACES PROVIDED	67 SPACES 4 SPACES (1 VAN)
	i

LEGEND:

	PROPERTY LINE RIGHT-OF-WAY LINE ADJACENT PROPERTY LINE EXISTING PAVING
	EXISTING 10' CONTOUR EXISTING 2' CONTOUR SOILS
5102	EXISTING TREELINE
NOW ST#	EXISTING SPECIMEN TREE TO BE REMOVED
OH	EXISTING OVERHEAD LINE EXISTING MAILBOX
× × ×	EXISTING JUNCTION BOX EXISTING SIGN EXISTING UTILITY POLE
430	PROPOSED CURB & GUTTER PROPOSED CONTOUR PROPOSED PRIVACY FENCE PROPOSED TREE LINE
LOD—LOD—LOD—	PROPOSED LIGHT POLE PROPOSED BUILDING ACCES LIMIT OF DISTURBED AREA
	PROPOSED MICRO-BIORETEN

ENVIRONMENTAL SITE DESIGN NARRATIVE

- THE SUBJECT PROPERTY IS CURRENTLY UNDEVELOPED. THERE ARE NO ENVIRONMENTAL AREAS ON SITE. THE CLOSEST ENVIRONMENTALLY SENSITIVE AREA IS A STREAM APPROXIMATELY 2,000 FT SOUTH OF THE PROPERTY. NOTE THAT THERE ARE 8 SPECIMEN TREES, ALL OF
- 2. THE SITE NATURALLY SLOPES FROM THE SOUTHEAST CORNER OF THE PROPERTY TO THE NORTHWEST. THE SITE HAS BEEN DESIGNED TO MAINTAIN THE NATURAL DRAINAGE PATTERNS, WITH NO DRAMATIC CHANGES TO THE NATURAL DRAINAGE
- 3. THE CONCEPTUAL REDUCTION IN IMPERVIOUS AREA THROUGH BETTER SITE DESIGN IS ACHIEVED THROUGH THE ENVIRONMENTAL SITE DESIGN (ESD) FOR THE PROJECT TO THE MAXIMUM EXTENT PRACTICABLE (MEP). THE RESULTS OF THE ENVIRONMENTAL SITE DESIGN FOR THIS PROJECT WILL REFLECT "WOODS IN GOOD CONDITION". THE ESD CONCEPT INCLUDES THE USE OF MICRO-BIORETENTION FACILITIES (M-6).
- 4. SEDIMENT CONTROL FOR THIS SPECIFIC SITE PLAN WILL BE PROVIDED THROUGH THE USE OF SUPER SILT FENCE PERIMETER CONTROLS. SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH CURRENT REQUIREMENTS AND SHALL BE APPROVED BY THE HOWARD SOIL
- 5. STORMWATER MANAGEMENT FOR THE PROJECT SHALL BE MET THROUGH THE MICRO-SCALE PRACTICE OF MICRO-BIORETENTION FACILITIES (M-6). THE PROPOSED PRACTICES HAVE BEEN MAXIMIZED TO THE EXTENT PRACTICAL. THE CALCULATED RAINFALL TARGET (PE) FOR THIS PROJECT IS 2.0", AND THE TOTAL RUNOFF VOLUME (ESDV) REQUIRED IS 6,544 CF
- 6. AN ALTERNATIVE COMPLIANCE REQUEST FOR REMOVAL OF SPECIMEN TREES IS REQUIRED IN ORDER FOR THE PROPOSED DESIGN TO BE DEVELOPED, SIGNIFICANT DESIGN CHANGES MAY OCCUR BASED ON THE REVIEW OF THIS PLAN AND THE ALTERNATIVE COMPLIANCE REQUEST.

SHEET INDEX					
DESCRIPTION	SHEET NO.				
COVER SHEET AND ESDV CONCEPT PLAN	1 OF 2				
STORMWATER MANAGEMENT DRAINAGE AREA MAP & DETAILS	2 OF 2				

DEVELOPER

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OWNER

ENVIRONMENTAL CONCEPT PLAN

COVER SHEET AND ESDV CONCEPT PLAN

NEW PATH REFORMED CHURCH 10425 CLARKSVILLE PIKE (MD RTE 108)

ELLICOTT CITY, MD HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043

L. 17973 / F. 380 TAX MAP 29 BLOCK 18 5TH ELECTION DISTRICT

____RHV/ACS DESIGN BY: CHECKED BY: ____ AS SHOWN 41079 ROBERT H. VOGEL, PE No.1619

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