SHEET INDEX							
SHEET N	DESCRIPTION						
1	TITLE SHEET						
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3	ENVIRONMENTAL CONCEPT PLAN						
4	PRELIMINARY EROSION/SEDIMENT CONTROL PLAN AND STORMWATER MANAGEMENT NOTES AND DETAILS						

ENVIRONMENTAL CONCEPT PLAN BONNIA MIDAM INCIDE

LOTS 4 AND 5

R-ED (RESIDENTIAL: SINGLE) DISTRICT TAX MAP No. 38 GRID No. 03 PARCEL NO. 895 BIRST BIBCHON DISTRICT HOWARD COUNTY, MARYLAND

		510	DRMWATER	MANAGEM	ENT	PRACTI	CES BY	LOT	
AREA	ID.	MICRO-BIO (M-6) NUMBER		REMARK5					
LOT	4	, 1	HOUSE DRAINS T	O BIO ON LOT, DR	ZIVEWAY	TREATED BY	DISCONNECTIO	N OF NON-ROOFTO	OP RUNOFF

STORMWATER MANAGEMENT PRACTICES									
REA ID	LOCATION	DRAINAGE AREA SF.	% IMPERVIOUS	ESDV REQUIRED CuFf.	E50v PROVIDED CuF†.	MICRO BIO-RETENTION M-6 (Y/N)	DISCONNECTION NON-ROOFTOP RUNOFF N-2		
1	LOT 4	7,547	21.2%	241	299	Υ	Ϋ́		

GROSS AREA = 1.02 ACRES LOD = 0.31 ACRESRCN = 69.0TARGET Pe = 1.0"

STORMWATER MANAGEMENT DESIGN NARRATIVE

THIS REPORT WILL DEMONSTRATE HOW THE CRITERIA SET FORTH IN THE MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II (EFFECTIVE OCTOBER 2000, REVISED MAY 2009) WILL BE SATISFIED FOR THIS PROJECT. THE GOAL OF CREATING HYDROLOGY SIMILAR TO THAT OF "WOODS IN GOOD CONDITION" WILL BE ACCOMPLISHED THROUGH THE USE OF A M-6 MICRO BIO-RETENTION FACILITY. AND N-2 DISCONNECTION OF NON-ROOFTOP RUNOFF.

GENERAL SITE CONDITIONS:

THE BONNIE VIEW PROPERTY IS ZONED R-ED AND LOCATED ON TAX MAP 38, PARCEL NO. 895 OF THE HOWARD COUNTY, MARYLAND TAX MAP DATABASE SYSTEM. IT IS LOCATED IN THE ELLICOTT CITY AREA OF HOWARD COUNTY. THIS PROPERTY CONSISTS OF 1.02 ACRES AND IS RELATIVELY RECTANGULAR IN SHAPE. THE BONNIE VIEW LANE PROPERTY PROJECT IS BORDERED BY PROPERTY TO THE EAST. THIS PROJECT PROPOSES A SUBDIVISION OF AN EXISTING LOT INTO TWO PROPERTY WILL BE REMAIN. THE PROPERTY IS LOCATED WITHIN THE PATAPSCO RIVER WATERSHE FROM THE PROPOSED DRIVEWAY WILL BE TREATED BY THE DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2). THE WEB SOIL SURVEY SHOWS SOILS ON THE SITE CONSIST OF RUSSETT AND BELTSVILLE COMPLEX (RuB) & (RuC), TYPE "C" SOILS, AS WELL AS SASSAFRAS AND CROOM (5rD), TYPE "B" 50ILS.

. NATURAL RESOURCE PROTECTION: NO WETLANDS, STREAMS, THEIR BUFFERS, FLOODPLAINS, OR FOREST, EXIST ON-SITE. STEEP SLOPES EXIST ON-SITE BUT ARE NOT IN THE AREA OF IMPROVEMENT, NO SPECIAL PROTECTION IS REQUIRED. NO SPECIMEN TREES ON SITE.

II. MAINTENANCE OF NATURAL FLOW PATTERNS: NATURAL FLOW PATTERN HAS BEEN MAINTAINED.

II. REDUCTION OF IMPERVIOUS AREAS THROUGH BETTER SITE DESIGN, ALTERNATIVE

SURFACES AND NONSTRUCTURAL PRACTICES: ONLY THE MINIMUM IMPERVIOUS AREAS HAVE BEEN PROPOSED TO ALLOW ADEQUATE ACCESS TO THE PROPOSED LOTS. THIS DESIGN PROVIDES ONLY A SINGLE SHARED DRIVEWAY FOR ACCESS TO BOTH

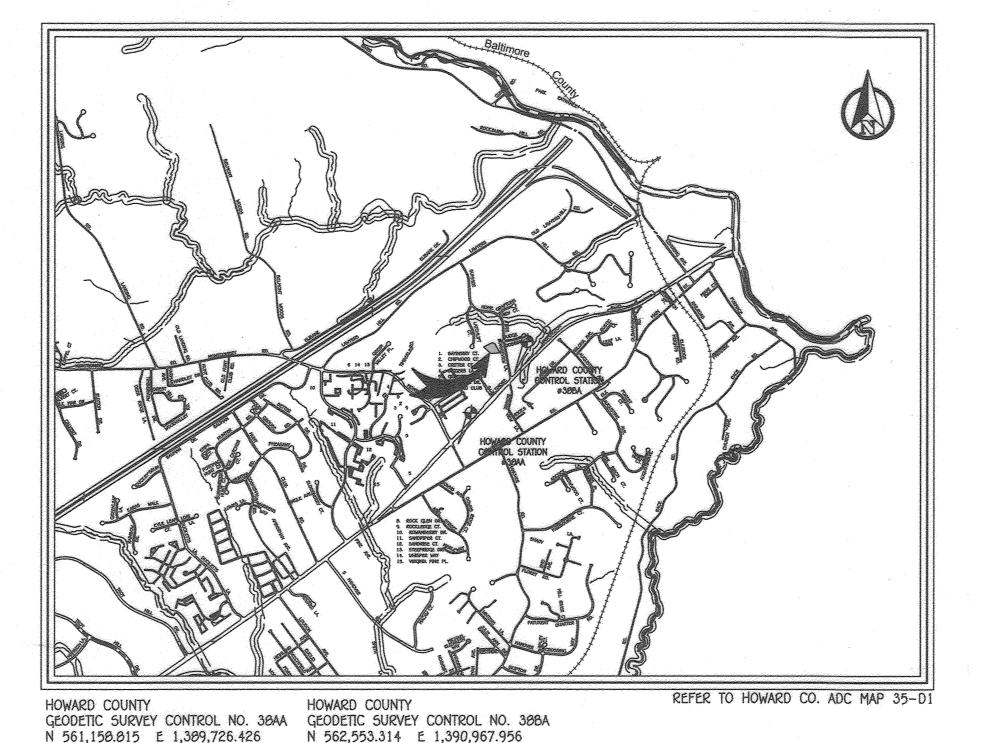
/. INTEGRATION OF EROSION AND SEDIMENT CONTROLS INTO STORMWATER STRATEGY: THIS PROJECT UTILIZES BIO-RETENTION FACILITIES IN LOCATIONS THAT COULD WORK IN CONCERT WITH

. IMPLEMENTATION OF ESD PLANNING TECHNIQUES AND PRACTICES TO THE MAXIMUM EXTENT PRACTICABLE (MEP):

THIS SUBMISSION WILL PROPOSE CHAPTER 5 DEVICES TO MEET AND EXCEED ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICABLE (ESD TO THE MEP). ALL IMPERVIOUS AREAS WILL RECEIVE FULL TREATMENT

I. <u>REQUEST FOR DESIGN MANUAL WAIVER:</u>

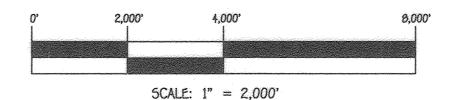
NO WAIVERS ARE EXPECTED TO BE REQUESTED ON THIS PROJECT RELATING TO SWM REQUIREMENTS.



5CALE: 1" = 2,000"

ELEVATION: 166.174'

ELEVATION: 220.036'



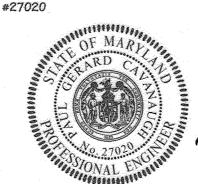
STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT
- SHALL BE 500 SQ. FT. OR LESS. . FINAL GRADING SHALL BE PROVIDED WITH THE SITE DEVELOPMENT PLAN.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

OF LAND DEVELOPMENT NA

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS ENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE



PROFESSIONAL CERTIFICATION "I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AN ADULY DEENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARKLAND, LIGHTSE NO. 27020, EXPIRATION DATE: 1/20/25. (A) A) AV MU

OWNER/DEVELOPER CHETAN B MEHTA 5192 TALBOTS LANDING

ELLICOTT CITY MD 21043

BONNIE VIEW LANE

TITLE SHEET

5830 BONNIE VIEW LANE TAX MAP NO.: 38 GRID NO.: 03 PARCEL NO.: 895 ZONED: R-ED PLAT NO.: 5763 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: AUGUST, 2023 SHEET 1 OF 4

GENERAL NOTES

COUNTY GEODETIC CONTROL 8. STATIONS NO. 3104 AND NO. 3108:

TOTAL AREA OF PROPERTY: 1.02 Ac+.

3. ONE SINGLE FAMILY HOUSE IS PROPOSED FOR THIS LOT.

THE SUBJECT PROPERTY IS ZONED R-ED (PER 10/06/13 COMPREHENSIVE ZONING PLAN.)

5. BOUNDARY IS BASED ON A FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS & CARTER ON

6. TOPOGRAPHIC INFORMATION IS BASED ON DIGITAL HOWARD COUNTY AERIAL ALONG WITH FIELD

7. COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD

9. STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL. VOLUMES I & II, REVISED 2009. WE ARE PROVIDING STORM WATER MANAGEMENT BY THE USE OF

1 MICRO-BIORETENTION (M-6) DEVICE. ALL ARE TO BE MAINTAINED BY THE HOMEOWNER. 10. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S

OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.

13. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 40 HOURS

12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS

14. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE

15. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(5) OR THEIR BUFFERS, FOREST

16. PER ENVIRONMENTAL FINDINGS LETTER RECEIVED JUNE 26, 2023 BY JAMES HIMMEL, REGISTERE

19. FOREST CONSERVATION REQUIREMENTS FOR THIS PROPOSED SUBDIVISION WILL BE PROVIDED AT THE FINAL PLAN STAGE OF THIS PROJECT IN ACCORDANCE WITH SECTION 16.1200 OF THE

SUBDIVISION OR SITE DEVELOPMENT PLANS OR RED-LINE REVISIONS, 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, SITE

DEVELOPMENT PLAN. OR RED-LINE REVISION PROCESSES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THE PROJECT PROGRESSES THROUGH THE PLAN

21. A PRESUBMISSION MEETING WILL BE HELD AFTER THE ECP SUBMISSION FOR THIS PROJECT.

22. NO WAIVERS ARE EXPECTED TO BE REQUESTED ON THIS PROJECT RELATING TO SWM REQUIREMENTS.

19. SOIL BORING INFORMATION WILL BE PROVIDED AT THE NEXT PLAN STAGE OF THIS PROJECT. 20. APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT OR ASSOCIATED

FORESTER, THERE ARE NO WETLANDS, STREAMS OR THEIR BUFFERS LOCATED WITHIN THE BOUNDARY OF THIS SITE. THERE ARE NO FLOODPLAIN LINES OR SPECIMEN TREES LOCATED ON THE SITE. STEEP SLOPES AND FORESTS EXIST ONLY ON THE SOUTHERN PORTION OF THE SITE,

388A N 562,553.314

E 1,389,726.426 ELEV. 220.036'

E 1,390,967.956 ELEV. 166.174'

4. CONTRACTOR/BUILDER TO VERIFY ELEVATIONS IN THE FIELD BEFORE BEGINNING ANY

RUN TOPOGRAPHY BY FISHER, COLLINS & CARTER, INC., APRIL, 2020.

HOWARD COUNTY MONUMENT NO. 38AA N 561,158.815

11. SOILS SHOWN HEREON ARE BASED ON NRCS WEB SOIL SURVEY.

DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS.

17. LANDSCAPING WILL BE PROVIDED AT THE FINAL PLAN STAGE OF THIS PROJECT.

CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.

HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT.

PRIOR TO ANY EXCAVATION WORK BEING DONE.

NONE OF WHICH WILL BE DISTURBED.

5ITE ANALYSIS DATA CHART

PRESENT ZONING DESIGNATION = R-ED

PROPOSED USE: RESIDENTIAL

A. TOTAL AREA OF PROPERTY = 44,379.70 5Q.FT. OR 1.02 AC.±.

B. LIMIT OF DISTURBED AREA (SITE) = 13,403 SQ.FT. OR 0.31 Ac. +

PREVIOUS HOWARD COUNTY FILES: F-84-025 & F-86-166 TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC.

TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.27 AC. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.

TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC.

TOTAL PROPOSED IMPERVIOUS AREA = 2.333 SQ.FT. OR 0.05 AC. ±

N. TOTAL PROPOSED IMPERVIOUS ROOF AREA = 1,600 5Q.FT. 0.04 AC.+

TOTAL EXISTING IMPERVIOUS ROOF AREA = 1,881 SQ.FT. 0.04 AC.±

M. TOTAL PROPOSED IMPERVIOUS PAVING AREA = 733 SQ.FT. OR 0.02 AC.+

TOTAL GREEN OPEN AREA = 8.060 SQ.FT OR 0.19 AC. &

TOTAL EXISTING PAVING AREA = 2,767 5Q.FT. OR 0.06

TOTAL AREA OF EXISTING FOREST = 0.00 AC.

Q. TOTAL AREA OF ERODIBLE SOILS = 0.41 AC.

LOTS 4 AND 5

