F				
	SHEET INDEX			
	NO. DESCRIPTION			
	1	COVER SHEET		
	2	EXISTING CONDITIONS PLAN		
	3	LAYOUT PLAN		
	4	GRADING PLAN		
	5 - 7	STORMWATER MANAGEMENT PLAN		
į	8	STORM DRAINAGE AREA MAP		
	9	SEDIMENT AND EROSION CONTROL PLAN		
l	10	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS		
	11	LANDSCAPE PLAN & FOREST CONSERVATION WORKSHEET		

ESD - SWM PRACTICES			
LOT NUMBER	ADDRESS	MICRO BIO-RETENTION (M-6) QUANTITY	SURFACE SAND FILTE (F-1) QUANTITY
1	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
2	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
3	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
4	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
5	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
7	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	1	0
O.S. 8	OLD WASHINGTON ROAD ELKRIDGE MD, 21075	0	1

SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND

** HIGHLY ERODIBLE SOILS: SOILS WITH K OF 0.35 OR GREATER AND ON GRADES 5% OR STEEPER; OR SOILS ON GRADES 15% OR GREATER.

RUSSETT FINE SANDY LOAM, 5 TO 10 PERCENT SLOPES RUSSETT FINE SANDY LOAM, 10 TO 15 PERCENT SLOPES

URBAN LAND- CHILLUM-BELTSVILLE COMPLEX, 0 TO 5 PERCENT SLOPES

URBAN LAND- CHILLUM-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES

SYMBOL HYDRIC HYDROLOGIC GROUP ALTERNATE GROUP

SOILS ARE TAKEN FROM THE NRCS WEB SOIL SURVEY APRIL 2017, MAP 20.

PRELIMINARY PLAN ELKRISE HILL

LOTS 1-7, OPEN SPACE LOT 8 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LEGEND

PROPERTY BOUNDARY	
ADJACENT PROPERTY OWNER	
EXISTING EASEMENT	
PROPOSED EASEMENT	
PROPOSED LOT LINE	
SOILS CLASSIFICATION SOILS DELINEATION	Mo, D sacresterrement
EXISTING WOODS LINE	
PROPOSED TREE LINE	. ~ .
EXISTING WATER MAIN	
EXISTING SEWER MAIN	earns attems steems comes actem actems steems seaths accens totall accens section section
EXISTING GAS LINE	
EXISTING STORM DRAIN	
PROPOSED STORM DRAIN	

SITE DATA TABULATION
1) GENERAL SITE DATA a. PRESENT ZONING: R-12 b. LOCATION: TAX MAP 38 - GRID 8 - PARCEL 198 c. APPLICABLE DPZ FILE REFERENCES: ECP-18-026, S-18-004, WP-19-079, HPC-18-06 d. DEED REFERENCE: L.17498 / F.00062 e. PROPOSED USE OF SITE: 6 NEW SINGLE FAMILY DETACHED RESIDENCE RETENTION OF 1 EXISTING SINGLE FAMILY DETACHED RESIDENCE. f. PROPOSED WATER AND SEWER: PUBLIC WATER AND PUBLIC SEWER. 2) AREA TABULATION a. TOTAL AREA OF SITE
c. AREA OF STEEP SLOPES (25% OR GREATER)
a. NET AREA OF SITE
b. TOTAL NUMBER OF NON-BUILDABLE OPEN SPACE LOTS PROPOSED ON THIS SUBMISSION

PROPOSED HOUSE

TENTATIVELY APPROVED DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY

PARCEL 441 PARCEL	ALEXANDER N. LUCAS AND RENEE LUCAS AND RENEE LL DEBOARD LUCAS 15750/00034 20NED: R-12
EXISTING DWELLING	09036/ GR-12 R-12 R-12 R-12 EX. 12" DIP WATER MAIN (PER CONT. 44-0906) EX. 12" DIP WATER MAIN (PER CONT. 44-0906)
EX. 8" PVC SEWER (PER 22-S) FX 6" BGE GAS	EX. SHC & XX SMH 321 EX. FIRE SANITARY YAULT FYDRANT VAULT
EX. 8" PVC SEWER (PER 22-5) EX. SMH 302 CONTROL OF THE PART NO. 1289 PAR	TO HOWARD COUNTY, MD FOR COUNTY, MD
EXISTING DWELLING DWE	TROCKBURN
EXISTING DWELLING EXISTING DWELLING EXISTING DWELLING EXISTING DWELLING EXISTING DWELLING N/F PLAT No. 12892 PLAT No. 12892 T. MCLENDON OA524 000436 DWELLING EXISTING DWELLING OA524 DWELLING OWELLING OWELLING OA524 DWELLING OWELLING OWELLING OA525 DWELLING OWELLING OA524 DWELLING OWELLING OW	MBR-2 LEONA J. BARNEL 193 ZONED: RC 193 A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
DOWN'S RIDGE COURT EXISTING NO PLAT NO SEWER (14-3520-D) EX. 8" PVC SEWER (14-3520-D) EX. 8" DIP WATER (14-3520-D) EXISTING NONZON CUEVAS DWELLING PLAT NO. 12892 PLA	13,365 SF
DOWNS RIII PLAT N. CLAUZELL LASONYA 08563 ZONED	LOT 3 13,918 SF PARCEL 791 N/F N/F N/F N/F N/F N/F N/F N/
EXISTING OCE, LOT 10 MCINITYRE MONTHRE MONTHR	N/F N/F A. ZIMMER AND MILDRED ZIMMER 00427/00005 ZONED: R-12 S60, 743/44
	PLAN VIEW

	BOUNDARY COORDINATES			
***************************************	POINT #	NORTHING	EASTING	
-	1	560593.7152	1389969.9348	
***************************************	2	560690.6358	1390132.8697	

3 560227.5017 1390408.6009 4 | 560130.5810 | 1390245.6660

LOT NO. | GROSS AREA

13,734 SF 13,365 SF

13,918 SF

13,535 SF

13,038 SF

13,044 SF

MINIMUM LOT SIZE CHART

1,202 SF

1,365 SF

1,826 SF

1,534 SF

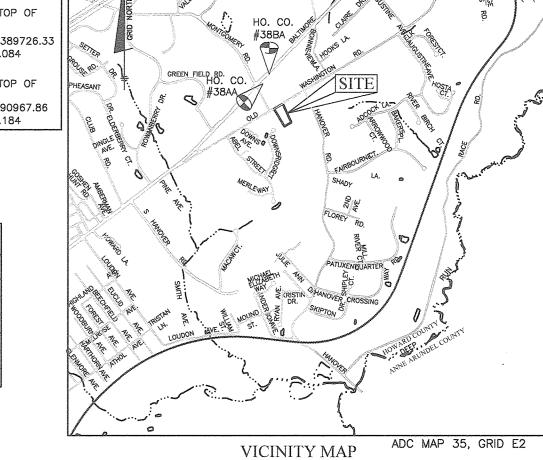
1,028 SF

500 SF

STAMPED DISK SET ON TOP OF CONCRETE BASE. N 561158.817 E 1389726.33 ELEVATION: 220.084 STAMPED DISK SET ON TOP OF CONCRETE BASE E 1390967.86 N 562553.31 ELEVATION: 166.184

HORIZONTAL HO. CO. #38AA

BENCHMARKS NAD'83



SCALE : 1'=2000

PIPESTEM AREA MIN. LOT SIZE

GENERAL NOTES

- 1. THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. SUBJECT PROPERTY ZONED R-12 PER THE 10-06-2013 COMPREHENSIVE ZONING PLAN.
- DEED REFERENCE: 17498/00062. 4. THE EXISTING TOPOGRAPHY ON-SITE IS TAKEN FROM FIELD SURVEY WITH 2 FOOT CONTOUR INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC. DATED APRIL. 2017. SURROUNDING TOPOGRAPHY IS TAKEN FROM HOWARD COUNTY GIS. 5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE

12,532 SF

12,000 SF 12,092 SF

12,001 SF

12,010 SF

12,544 SF

- PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NO. 38AA AND 38BA WERE USED FOR THIS PROJECT. PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. DATED APRIL, 2017. THIS LOT WILL UTILIZE A CUSTOM SEDIMENT AND EROSION PLAN SINCE THE LIMIT OF DISTURBANCE IS FOR MORE THAN ONE LOT 8. PUBLIC WATER MAIN WILL CONNECT TO CONTRACT 44-0906. DRAINAGE IS MIDDLE PATUXENT.
- 9. PUBLIC SEWER MAIN WILL CONNECT TO CONTRACT 22-S. DRAINAGE IS MIDDLE PATUXENT. 10. THERE IS ONE EXISTING DWELLING ON SITE. IT IS TO BE RETAINED. ONE ACCESSORY STRUCTURE IS TO BE REMOVED AND ONE IS TO BE RETAINED. 11. EXISTING UTILITIES ARE BASED ON FIELD SURVEY LOCATIONS, CONTRACT DRAWINGS AND HOWARD COUNTY GIS. 12. STORMWATER MANAGEMENT SYSTEM SHOWN ON SHEET 2 IS AN APPROXIMATION OF THE SIZE, SHAPE AND LOCATION. IT IS UNDERSTOOD THAT THIS SYSTEM HAS NOT BEEN DESIGNED AND THE ACTUAL DESIGN MAY CHANGE, ALTERING THE NUMBER OF UNITS ALLOCATED FOR THIS DEVELOPMENT. 13. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 14. TRAFFIC STUDY WAS PREPARED BY MARS GROUP ON MAY 3, 2017 AND APPROVED UNDER THE REVIEW OF S-18-004. 15. FREE FLOW SPEED STUDY WAS PREPARED BY MARS GROUP ON MAY 10, 2017 AND THE SIGHT DISTANCE ANALYSIS WAS APPROVED UNDER
- 16. THE FOREST STAND DELINEATION WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. THERE IS ONE SPECIMEN TREE LOCATED JUST OFF SITE
- AND THE TREE IS TO REMAIN. THE FSD WAS APPROVED UNDER S-18-004.
- 17. THERE ARE NO WETLANDS, STREAMS, THEIR REQUIRED BUFFERS, 100-YEAR FLOODPLAIN OR STEEP SLOPES LOCATED ON THE SITE. 18. TO THE BEST OF OUR KNOWLEDGE AND BELIEF THERE ARE NO CEMETERIES ONSITE. THE EXISTING DWELLING ON-SITE IS HISTORIC AND IS LISTED
- ON THE HISTORIC SITES INVENTORY AS HO-803 AS PART OF THE OLD WASHINGTON ROAD SURVEY DISTRICT 19. ECP-18-026 WAS APPROVED BY DED PER LETTER DATED APRIL 23, 2018. THE ORIGINAL MYLARS WERE SIGNED ON 10/17/18.
- 20. THE REQUIRED PRESUBMISSION COMMUNITY MEETING WAS HELD ON MARCH 12, 2018 AT 6:00PM AT MELVILLE CHAPEL UMC. 21. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT AND PUBLIC WATER AND SEWER SHALL BE UTILIZED WITHIN THIS DEVELOPMENT.
- 22. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES 23. THE FOREST CONSERVATION REQUIREMENTS FOR THIS SUBDIVISION SHALL BE ADDRESSED PRIOR TO RECORDATION OF THE FINAL SUBDIVISION PLAT AND SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.1200 OF THE SUBDIVISION REGULATIONS AND FOREST
- MITIGATION BANK OR PAYMENT OF A FEE-IN-LIEU. 24. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 - RESIDENTIAL INFILL DEVELOPMENT - OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE

CONSERVATION MANUAL. THE FOREST CONSERVATION OBLIGATION FOR THIS SUBDIVISION SHALL BE SATISFIED BY THE USE OF AN OFFSITE

- 25. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL
- 45-2003 AND THE ZONING REGULATIONS, AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS 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. 26. THE PERIMETER LANDSCAPING REQUIREMENTS SHALL BE ADDRESSED PRIOR TO RECORDATION OF THE FINAL SUBDIVISION PLAT AND SHALL BE
- PROVIDED IN ACCORDANCE WITH THE PROVISIONS OFF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. 27. THE PROJECT IS SUBJECT TO SECTION 13.402 OF THE COUNTY CODE FOR MODERATE INCOME HOUSING UNITS (MIHU). 28. APPROVAL OF A DESIGN MANUAL WAIVER WILL BE NECESSARY FOR HOWARD COUNTY DESIGN MANUAL ROADS AND BRIDGES, VOLUME III. SECTION 2.6(A), S.6(B) AND APPENDIX "A" TO ALLOW MORE THAN 6 LOTS ACCESSING A PUBLIC ROAD VIA A PRIVATE DRIVEWAY. THE JUSTIFICATION IS THAT THE INTERSECTION WITH MONTGOMERY ROAD, THE LOCATION OF THE HIGH POINT OF OLD WASHINGTON ROAD AND ZONING REGULATIONS SECTION 16.127(c)(4) LIMIT THE BEST SINGLE ACCESS POINT TO THE NORTHERN PART OF THE PROPERTY. ADEQUATE INTERSECTION AND STOPPING SIGHT
- DISTANCE IS AVAILABLE AT THE LOCATION SHOWN. 29. THERE ARE ERODIBLE SOILS WITHIN THE PROPERTY LIMITS. 30. OPEN SPACE WILL BE PROVIDED BY LOT 8 AND A PAYMENT OF A FEE-IN-LIEU OF OPEN SPACE OF \$1500 PER LOT FOR SIX LOTS PER
- RECREATION AND PARKS REVIEW. SEE SITE ANALYSIS DATA CHART. 31. THIS PLAN WENT BEFORE THE HISTORIC PRESERVATION COMMISSION FOR ADVISORY COMMENTS ON FEBRUARY 1, 2018 IN CASE HPC-18-06. THE COMMENTS OFFERED INCLUDE A REQUEST TO MOVE THE PROPOSED DRIVEWAY FURTHER FROM THE EAST SIDE OF THE HISTORIC STRUCTURE. THE DRIVEWAY HAS BEEN RECONFIGURED. THE HOUSE AND BUILDING ARE TO REMAIN. HISTORIC SITE INVENTORY NUMBER HO-803. 32. THE R1-1 ("STOP") SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING
- 33. THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE BASE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY
- TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES. 34. ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MdMUTCD).
- 35. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF FACH POST
- 36. APPROVAL OF THE SKETCH PLAN S-18-004 DOES NOT CONSTITUTE APPROVAL OF THE FINAL LAYOUT OR APPROVAL OF NEEDED DESIGN MANUAL WAIVERS OR ALTERNATIVE COMPLIANCE APPLICATIONS. MORE DETAILED COMMENTS MAY BE MADE ON FUTURE SUBMISSIONS THAT MAY ALTER THE FINAL LOT LAYOUT, INCLUDING BUT NOT LIMITED TO SITE ACCESS. FUTURE PLAN APPROVALS WILL BE SUBJECT TO APPROVAL OF A DESIGN MANUAL WAIVER BY DED TO ALLOW 7 LOTS TO USE A SHARED DRIVEWAY, AND APPROVAL OF AN ALTERNATIVE COMPLIANCE APPLICATION FROM DLD TO
- SECTION 16.120(c)(2) TO ALLOW ACCESS VIA AN EASEMENT WITHOUT A PIPESTEM PROVIDING ROAD FRONTAGE TO LOT 7. 37. UTILITIES TO THE EXISTING HOUSE MAY HAVE TO BE RELOCATED IN ORDER TO PROVIDE SERVICE TO THE HOUSE WHILE NOT BEING LOCATED ON DIFFERENT LOT OR WITHIN OPEN SPACE.
- 38. A DESIGN MANUAL WAIVER TO WAIVE SECTION 2.6.A, 2.6.B AND APPENDIX 'A' FROM THE DESIGN MANUAL VOLUME III TO ALLOW A TOTAL OF 7 LOTS TO ACCESS OLD WASHINGTON ROAD VIA A 16' PRIVATE USE-IN-COMMON DRIVEWAY HAS BEEN APPROVED SUBJECT TO SUFFICIENT SIGHT DISTANCE PROVIDED AT OLD WASHINGTON ROAD ACCESS. THE APPROVAL DATE BY HOWARD COUNTY DPW IS MARCH 26, 2019.
- 39. ALTERNATIVE COMPLIANCE, WP-19-079, TO WAIVE SECTION 16.920(C)(2), TO ALLOW LOT 7 ACCESS TO THE PUBLIC ROAD VIA EASEMENTS THROUGH LOT 6 AND OPEN SPACE LOT 8 INSTEAD OF REQUIRING AN ADDITIONAL ACCESS POINT USING LOT 7'S ROAD FRONTAGE, WAS CONDITIONALLY APPROVED BY THE DIRECTOR OF PLANNING AND ZONING ON JUNE 7, 2019. THE CONDITIONS OF APPROVAL ARE:
 - 1. INDICATE THIS ALTERNATIVE COMPLIANCE FILE NUMBER (WP-19-079), SECTIONS, REQUEST, ACTION, DATE AND CONDITIONS OF APPROVAL ON ALL SUBMITTED PLANS, INCLUDING P-19-002. 2. COMPLIANCE WITH ANY CONDITIONS AND COMMENTS FROM DPW REGARDING APPROVAL OF THE DESIGN MANUAL WAIVER TO ALLOW 7

WP-19-079, & HPC-18-06

DRAWN: MP

DESIGN: JC

	ALLOCATION EXEMPTIONS TRACKING		
Выганава паретилентальной выпользований выстичений выпользований выпользований выпольчити выпользований выстичений выпольчити выпольчити выпольчити выпольчити выпольчити	Total Number of Lots/Units Proposed	7	
	Number of MIHU Required	0.7	
	Number of MIHU Provided Onsite	0	
	(exempt from APFO allocations)		
Ī	Number of APFO Allocations Required	6	
	(remaining lots/units)		
	MIHU Fee-in-Lieu	157	
	(indicate lot/unit numbers)	1-5, 7	

(IN FEET)

1 inch = 50 ft.

USERS ON A PRIVATE USE-IN-COMMON DRIVEWAY.

NO.	DATE		REVISION		
8480 BALTIMORE NATIONAL PIKE & SUITE 315			NG, NC. 5 A ELLICOTT CITY, MARYLAND 21043 7) 410-465-6644	were p	sional Certification. I hereby certify that these document repared or approved by me, and that I am a duly license assional engineer under the laws of the State of Maryland License No. 45577, Expiration Date: 06-08-2020.
OWNER/DEVELOPER: HARMONY BUILDERS INC 4228 COLUMBIA ROAD ELLICOTT CITY, MD 21042 410-461-0833		BIA ROAD MD 21042	ELKRISE HILL LOTS 1-7 AND OPEN SPACE LOT 8		
RELEVANT FILE NUMBERS:			TAX MAP: 38, GRID: 08, PARCEL: 198, ZONED: R-12 6289 OLD WASHINGTON ROAD ELKRIDGE, MD 21075 ELECTION DISTRICT NO. 1 — HOWARD COUNTY, MARYLAND		
					ARY PLAN SHEET
ECP-18-026, S-18-004,		-18-004,	DATE		

AUGUST, 2019

AS SHOWN

DATE:

BEI PROJECT NO:

2818

1 OF 11

