

SCALE: 1"=2000' ADC MAP: 17 (G-7)

\underline{LEGEND}

--- DRAINAGE AREA IMPERVIOUS AREA TREATED BY

MICRO-BIORETENTION (M-6) SUPER SILT FENCE

- LIMITS OF DISTRUBANCE PERMANENT DIVERSION SWALE

MICRO-BIORETENTION

EXISTING TREE LINE

AREA OF STEEP SLOPES 25% AREA OF SLOPES 15%-24.99%

SCE STABILIZED CONSTRUCTION

FOREST CONSERVATION EASEMENT

SOIL DESCRIPTIONS

SYMBOL	RATING	NAME	Kw FACTOR	МАР	ERODABLE SOILS
LeC	С	LEGORE SILT LOAM, 8 TO 15 PERCENT SLOPES, STONY	0.64	17	YES
LrD	C	LEGORE-RELAY GRAVELLY LOAMS, 15 TO 25 PERCENT SLOPES, VERY STONY	0.64	17	YES
LrF	С	LEGORE-RELAY GRAVELLY LOAMS, 25 TO 65 PERCENT SLOPES, VERY STONY	0.64	17	YES

10-YEAR STORM CALCULATIONS:

EXISTING STORM DRAIN (PRE-DEV)
Q=CIA: C=0.48 Q = (0.48)(4.47)(0.55)

PERMANENT SWALE (OFFSITE) Q=CIA: C=0.48

I=4.05 (@TC=26; TR-55) A=0.70 AC Q = (0.48)(4.05)(0.70)Q = 1.36 CFS

CHIEF, DIVISION OF LAND DEVELOPMENT

CHANNEL SLOPE = 1.93% SIDE SLOPES = 3:1DEPTH = 1'MANNING'S N = 0.026FLOW DEPTH = 0.42VELOCITY = 2.57 FPS

PROP. 12" RCP (JB TO EXISTING DRAIN)
Q = 1.36 CFS SLOPE = 1.0%DIAMETER = 12"MANNING'S N = 0.011FLOW DEPTH = 0.40

VELOCITY = 4.63 FPS EXISTING 12" RCP (POST-DEV) Q = 1.36 + 1.18 = 2.54 CFS SLOPE = 10.0%DIAMETER = 12" MANNING'S N = 0.011

FLOW DEPTH = 0.30'

VELOCITY = 12.8 FPS

ADVERSE IMPACT OF THE ADJACENT PROPERTIES. 16' WIDE USE-IN-COMMON DRIVEWAY WILL BE USED TO SERVE AS ACCESS FOR PROPOSED LOTS. MICRO-BIORETENTION FACILITY (M-6) WILL PROVIDE STORMWATER MANAGEMENT FOR THE NEW DEVELOPMENT.

THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN ACCORDANCE WITH THE LATEST MDE STANDARDS AND SPECIFICATIONS UTILIZING SILT FENCES AND SUPER SILT FENCES. NO CONCENTRATION FLOW IS PROPOSED. NO SEDIMENT TRAPS OR BASINS ARE REQUIRED. TABLE 5.2, SUMMARY OF SITE DEVELOPMENT STRATEGIES WERE UTILIZED

TO THE EXTENT ALLOWABLE BY THE CURRENT HOWARD COUNTY ZONING AND LAND DEVELOPMENT REGULATIONS. THIS PROJECT WAS DESIGNED TO MINIMIZE THE IMPERVIOUS AREAS, ESD

MEASURES WERE UTILIZED IN THE FOLLOWING ORDER OF PREFERENCE: (M-6).HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,

09/18/23

CENSE NO. 26859, EXP DATE 08/08/25

AREA: 2.72 ACRES ±

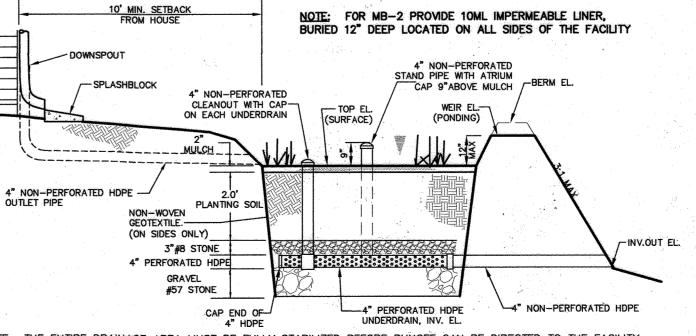
TOTAL NUMBER OF UNITS: 3 TYPE OF PROPOSED UNIT: SINGLE FAMILY DETACHED

PROJECT BOUNDARY IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT JUNE, 2021 BY MILDENBERG, BOENDER & ASSOC. TOPOGRAPHY SHOWN HERE IS GIS AND WAS FIELD VERIFIED BY MILDENBERG, BOENDER & ASSOC. INC. IN MAR., 2021 TO ACCURATELY REPRESENT THE RELATIVE CHANGES

HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM CARROLL COUNTY CONTROL STATIONS NO. 38BA & 38BB

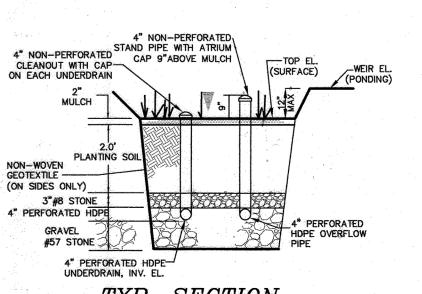
STA. 38BA: N 562553.314: E 1,390,967.956; EL. 166.174 (NAVD88) N 564007.645: E 1,393,649.926; EL. 63.655 (NAVD88) SOILS LOCATION AND CLASSIFICATION BASED ON WEB SOIL SURVEY FOUND AT

WEBSOILSURVEYS.SC.EGOV.USDA.GOV. APPROVAL OF THIS ECP DOES NOT CONSTITUTE ANY APPROVAL OF SUBSEQUENT SUBDIVISION OR SITE DEVELOPMENT PLANS. FURTHER COMMENTS WILL BE GENERATED UPON REVIEW OF THE APPLICABLE DEVELOPMENT PLANS IN ACCORDANCE WITH THE SUBDIVISION AND ZONING REGULATIONS. 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.



NOTE- THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY. TYPICAL MICRO-BIORETENTION PROFILE

NOT TO SCALE



TYP. SECTION MICRO-BIORETENTION (M-6)

NOT TO SCALE

OF 1

1237

RESUBDIVISIO

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