

#### **Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

Facebook: www.facebook.com/hocohealth

11-28-27 ONSITE SEWAGE DISPOSAL SYSTEM RECEIPT DATE: PERMIT: NEW CONSTRUCTION APPROVAL DATE: 1224 2620 MULLINIX MILL ROAD, DAYTON, MD 21046 **PROPERTY ADDRESS:** LOT: 3 TAX ID: 04-341996 SUBDIVISION: MCALISTER PROPERTY **CONTRACTOR: CONTRACTOR ADDRESS:** PROPERTY OWNER: DAVID N and VICKI T GAUNT **EMAIL:** OWNER ADDRESS: 1307 MARIAN WAY, MOUNT AIRY, MD 21771 PHONE: (240)440-9611 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: TBD **PUMP TANK CAPACITY:** PUMP MODEL: n.a. PLIMP SIZE n.a. BEDROOMS: 45 **DISTRIBUTION SYSTEM: ⊠** GRAVITY PRESSURE DOSED APPLICATION RATE: 1.2 LINEAR FEET REQUIRED: 131 INLET DEPTH: 2.5 TRENCHES: TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 8.0 MINIMUM SPACE **BETWEEN TRENCHES:** EFFECTIVE AREA BEGINNING DEPTH: 4.0 PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED LOCATION: SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. INSTALL AT LEAST TWO CLEANOUTS IN SHC. **NOTES: ISSUED BY:** R BRICKER ISSUE DATE: 11/18/23 EXPIRATION DATE: 11 22 23 NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW. NOTE: WATERTIGHT TANKS REQUIRED ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE

SUCCESSFUL OPERATION OF ANY SYSTEM.

MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE

E n.a.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOTE:

ELECTRICAL PERMIT ISSUED

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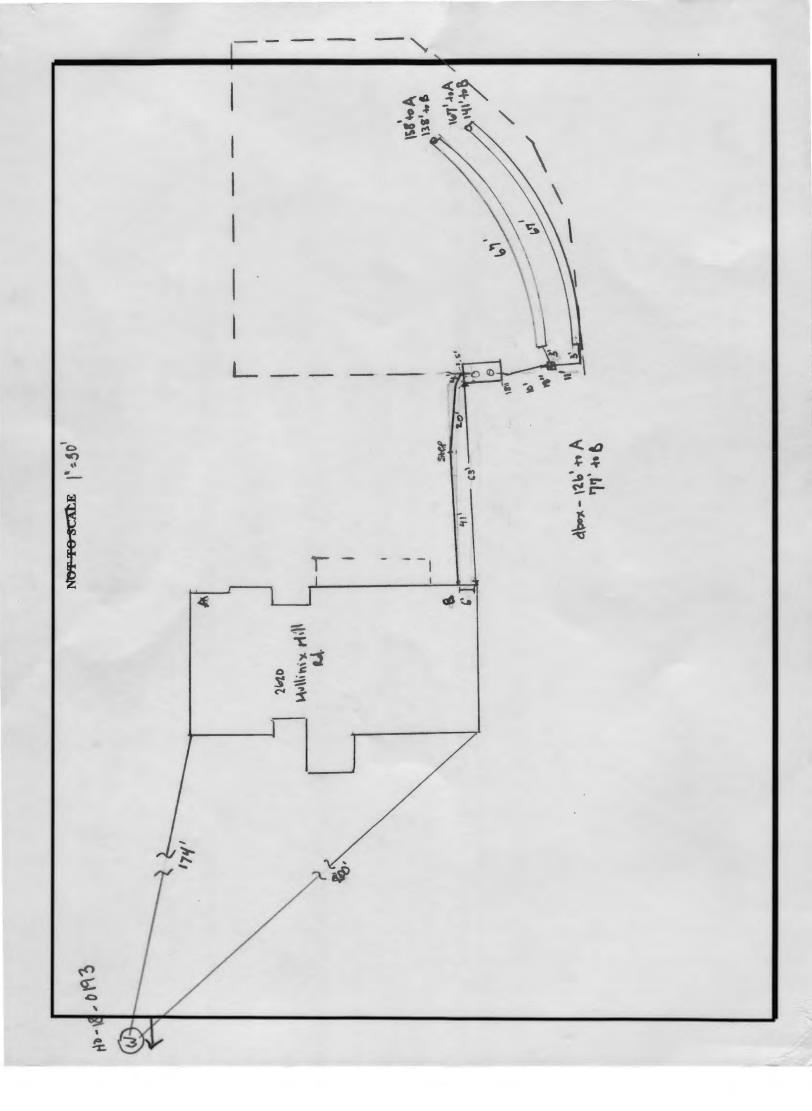
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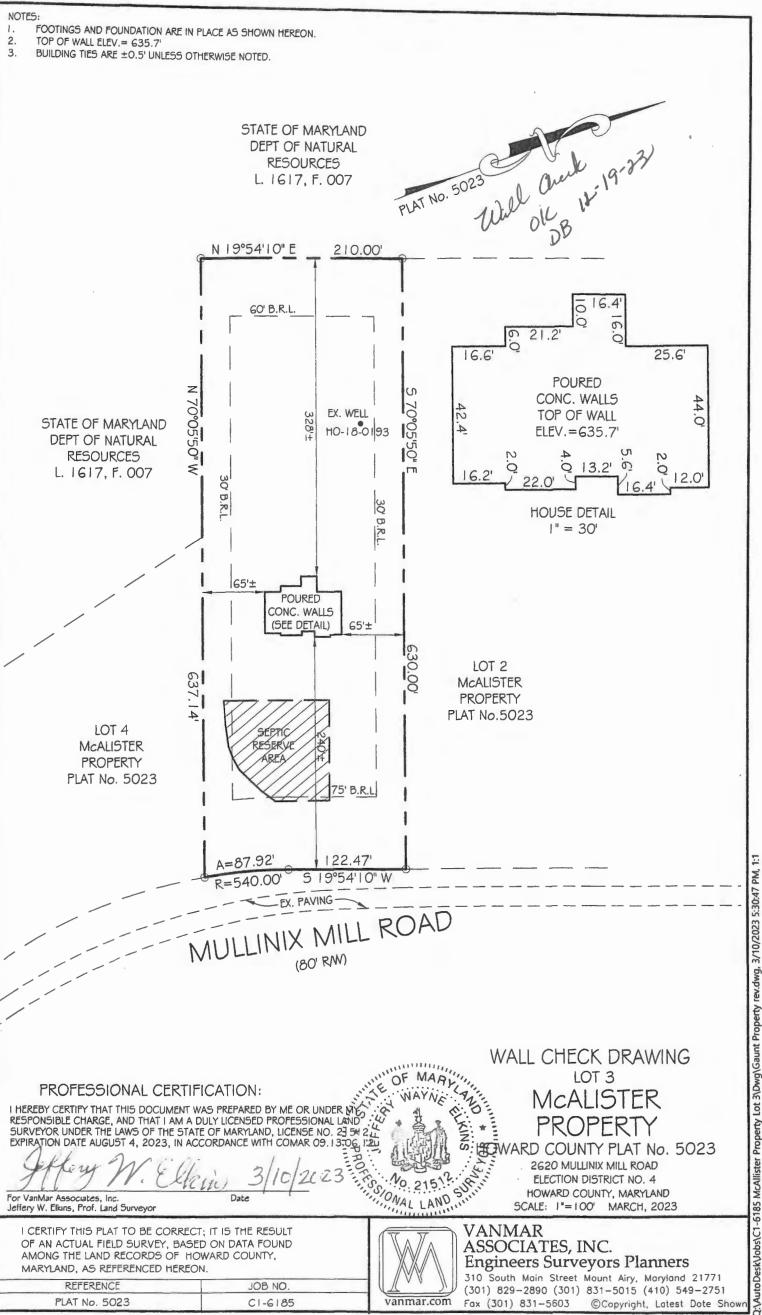
TRENCH/DRAINFIELD DATA
WIDTH INLET BOTTOM
3' 2.5' 8'

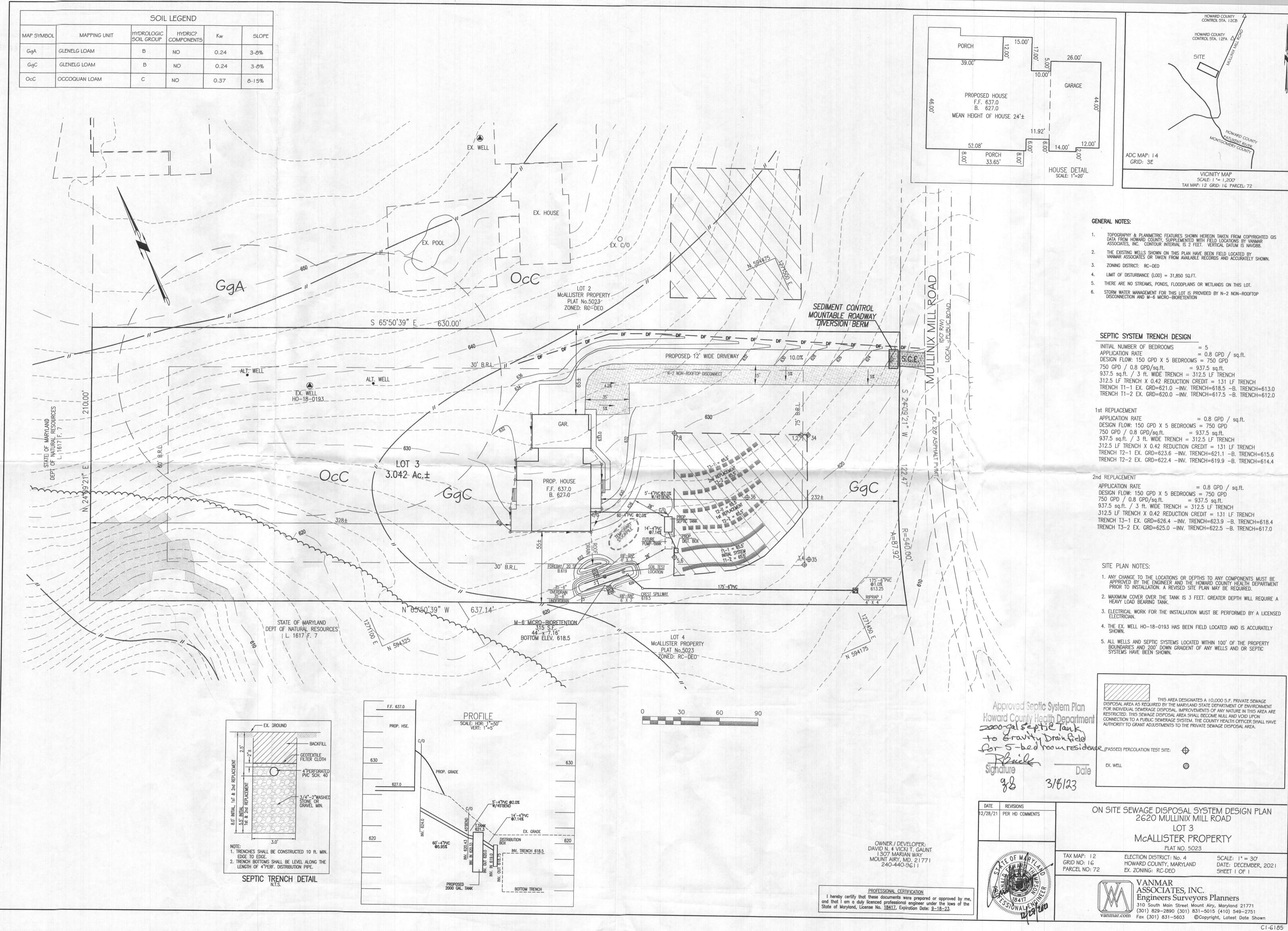
ABSORPTION AREA 42' + Siderall DISTRIBUTION BOX LEVEL 465
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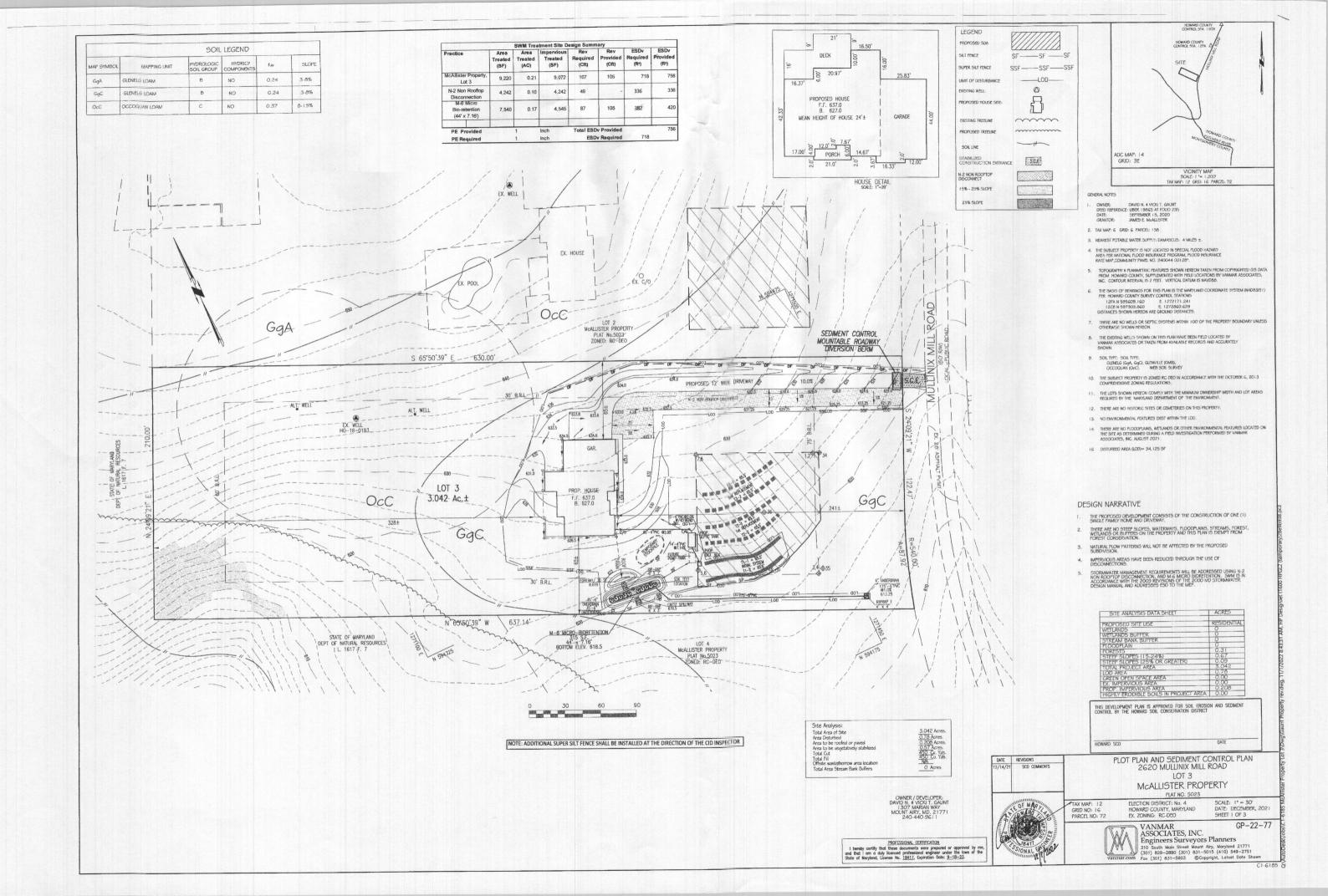
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TOTAL LENGTH

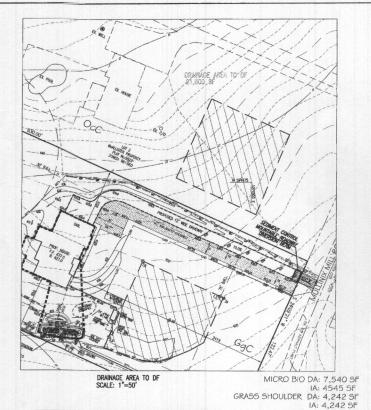
DISTRIBUTION BOX PORT \_











B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS Definition: The process of preparing the soils to sustain adequate vegetative stabilization. Purpose: To provide a suitable soil medium for vegetative growth.

Criteria.

The Programtion A. Tell Programtion A. Tell Programtion and the Criteria and Criteria c. Incorporate time and fertilizer into the fag 3 to 5 inches of soil by disking or other suitable.

2. Permanent Stabilization

a. A soil feet is required for any certifi disturbance of 5 cores or more. The minimum soil

1. Soil pit between 6.0 cm ff 7.0.

1. Soilub soils fees then 500 perts per million (ppm).

1i. Soilub soils fees then 500 perts per million (ppm).

c. Incorporate time and fertilizer into the top 3 to 5 inches of 100 by deliting or other militable muons.

2. Personner libribilition

2. Sol pil bilitere 8.0 cml 20. June

2. Sol pil bilitere 8.0 cml 20. June

2. Sol pil bilitere 8.0 cml 20. June

2. Personner libribilition

3. Sol contains less then 60 personner libribilition

3. Sol contains less then 60 personner libribilition

4. Sol contains less then 60 personner libribilition

5. Sol contains 1.5 personner libribilition

6. Solphicition of menderatesh to specifical in the supported plan resistance by the results of a soll less than 50 personner libribilition

6. Apply soll amenderatesh as specialised in the supported plan or as indicated by the results of a soll less than 50 personner libribilition of the surface and sold plan or as indicated by the results of a soll less than 50 personner libribilities of the surface and sold plan or as indicated by the results of a soll less than 50 personner libribilities of the surface and sold plan or as indicated by the results of a soll less than 50 personner libribilities of the surface and sold plan or as indicated and resonner libribilities of the surface and sold plan or as indicated and resonner libribilities of the surface and sold plan or as indicated and resonner libribilities of the surface and sold plan or as indicated and resonner libribilities of the surface and sold plan or surface and s

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULE BILLING

Definition:
The application of seed and mulch to establish vegetative cover.

Purpose: To protect disturbed soils from erosion during and at the end of construction,

To the surface of all perimeter controls, stopes, and any destinated area not under active grading. Chilesis:

A. Seeding

A. Seeding

See

supplications by a manufacture where the process of the control of

B + 8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

A mound or pile of soil protected by oppropriately designed erosion and sediment control measures.

STANDARD SEDIMENT CONTROL NOTES

A pre-construction meeting must occur with the Neword Country Department of Public Works, Construction inspection Division ((D)), 410–313–1855 offer the future (D0 and protected area marked clearly in the field. A minimum of 48 hour notice to CID must be given a the following stages:

a. Prior to the start of earth disturbance,
b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,
c. Prior to the start of arother phase of construction or opening of enother grading unit,
d. Prior to the start of arother phase of construction or opening of enother grading unit,
d. Prior to the start of earth disturbance and the processor.

Other building or grading inspection approxime may the processor of the processor

FOR this SOIL DRISSION AND SEDMENT CONTROL," and revisions thereto.

Following initials used disturbance or re-disturbance, permonent or temporary stabilization is required within three (3) catendar days are to the surface of all sectionate controls, dilea, saveles, differes, perimeter slopes, and oil slopes tempere than 3. bentium (5.51), and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under colley england.

All disturbed areas must be stabilized within the time period specified dove in accordance with the 2011 MARTIANO STABANDES AND STECHENDINGS FOR SOIL EMISSION AND SCEDENIATION CONTROL (ST. CONTROL). CONTROL (ST. CONTROL) are seven to the project set except for the 2011 MARTIANO STABANDES AND STECHENDINGS FOR SOIL EMISSION AND SCEDIALITY CONTROL. CONTROL (ST. CONTROL) are set of the 2011 MARTIANO STABANDES CONTROL. AND STECHENDINGS FOR SOIL EMISSION AND SCEDIALITY CONTROL (ST. CONTROL). The property section of the 2011 MARTIANO STABANDES CONTROL (ST. CONTROL) and the 2011 MARTIANO STABANDES CONTROL (ST. CONTROL). And the property of the 2011 MARTIANO STABANDES CONTROL (ST. CONTROL STABANDES CONTROL (ST. CONTROL STABANDES CONTROL STABANDES CONTROL STABANDES CONTROL (ST. CONTROL STABANDES CONTROL

It must be beforebe were accurrented tow, steep slope, and reply emotive focusive and subditurboun matting (Sec. B—4-0).

All sediment continues all additurboun matting (Sec. B—4-0) are to be mointained in operative condition until permission for their removal has been obtained from the CID.

Sisk k-Area Schapies:

Total Area of Site

Area to be roofed or paved

Area to be roofed or paved

Total Cid.

Total Fill

Offsite worls/ borrow area location

7 Ary sediment control proctice which is disturbed by grading orbitly for placement of utilities must be reposited on the same day of disturbancement necessary by the CID. The site and cid controls shall be inspected by the controctor, made available upon request, is part of every inspection and should include:

\* Inspection date

\* Inspection date

\* Inspection date

\* Inspection of the project's status (a.g. percent complete) and/or current activities

\* Very description of project's status (a.g. percent complete) and/or current activities

\* Very description of project's status (a.g. percent complete) and/or current activities

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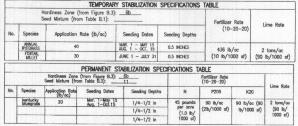
\* Very description of project's status (a.g. percent

5. Clear water nunoff into the stockpile area must be minimized by use of a diversion device such as an earth disk, temporary swele or diversion fenso. Provision must be mode for discharging concentrated flow in a non-creative manner.
6. Where nural'd concentrates along the tas of the stockpile fill, an appropriate variously sediment control proctice must be used to intercept the discharged requirement on the control proctice must be used to intercept the discharged requirement on a veil as Standard B+-1 incremental Statistics for and Standard B+-4. Henporary Statistication in the control proctice of the statistical process of the statistical process of the statistical process of the statistical process of the statistical process. If the stockpile is boorted on in improvious starting, of their should be provided below the stockpile to footbatte cleanup. Stockpiles containing containingted motorfal must be covered with imprended sheeting. Purpose
To provide a designated location for the temporary storage of soil that controls the optential for erosion, settlementation, and changes to drainage potterns. Conditions Where Practice Applies
Stackpile areas are utilized when it is necessary to salvage and store soil for later

Cileria

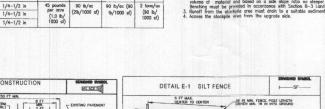
1. The stockpia location and all related sediment control practices must be clearly indicated on the avision and authenet control plan.

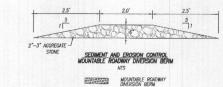
2. The footprint of the silacipile must be sized to accommodate the articipated beneficially and the sized to accommodate the articipated beneficially must be previoled in accordance with Section 8–3 Lend Gradier, and the size of the sized points of the size of the si

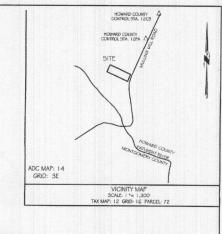












#### SEQUENCE OF CONSTRUCTION

OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND LICENSES FROM APPROPRIATE AGENCIES.(1 WEEK)

NOTIFY SEDIMENT CONTROL INSPECTOR AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING WORK.(1 WEEK)

3. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, DIVERSION FENCE AND OTHER SEDIMENT CONTROL DEVICES AS SHOWN IN THE SEDIMENT CONTROL PLAN. (1 WEEK)

STABILIZE ALL THE GRADED AREAS UP TO 20' OUTSIDE OF THE LIMIT OF GRADING AS PER PERMANENT SEEDING NOTES.( 1 WEEK)

5. EXCAVATE HOUSE FOUNDATION, CONSTRUCT HOUSE AND INSTALL UTILITIES.(12 WEEKS)

ANY AREAS THAT CAN BE TEMPORARILY SEEDED DURING CONSTRUCTION
MUST BE TEMPORARILY STABILIZED PER SEEDING NOTES.(I WEEK)
 INSTALL PRIVATE MICRO BORCETENTION FACILITIES, GROSS SHOULDER AND DRIVEWAY.(2 WEEKS)

8. STABILIZE DISTURBED AREAS PER PERMANENT SEEDING NOTES.(1 WEEK)

. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR; REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES FOR HOUSE CONSTRUCTION.(1 WEEK)

10. NOTIFY INSPECTOR FOR FINAL INSPECTION.(1 WEEK)

DUST CONTROL.

DUST CONTROL METHOD FOR THIS STIE TO PREVENT BLOWING AND MOVEMENT OF DUST
FROM DEVENES OUL SURFACES CALCIUM CHANNED SYMLL BE APPLIED TO EXPOSED
SURFACES AT A RATE THAT MEL KEEP SURFACE MOST CHILL SUS SCHOLLED FOR
TO VOLETIMES PERS. FOR THIS STEE AND ARMS TO BE PANCED ARE CONFIDENCE. STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A THREE (5) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMIETER DIKES, SWALES, DIFCHES, PERMIETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZOUTAL TO 1 VERTICAL (5-1); AND 8. SKNON (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED ARBAS ON THE PROBACT SITE NOT UNIDER ACTIVE GRADING.

TEMPORARY STOCKPILE NOTE SITE EARTHWORK HAS BEEN BAJANCED SUCH THAT A TEMPORARY STOCKPILE SHOULD NOT BE NECESSARY. SHOULD CONTRACTOR DECIDE TO USE A STOCKPILE CONTROLTOR SHALL PLACE STOCKPILE ON SUITABLE AREA OF THE SITE AND FOLLOW TEMPORARY STABILIZATION NOTES.

#### DEVELOPER'S CERTIFICATE:

T/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EPOSION CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE EMPRICAMENT APPROVED TRANING PROGRAM FOR THE CONTROL OF SEDIMENT AND CROSSION BEFORE BESINNING THE PROJECT. I AUTHORIZE PERSONCE OF A STREETCH SET OF THE HORADOS OF THE HOR

DEVELOPER

ENGINEER'S CERTIFICATE:

DATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL THE THE THE PROMITE HAS DEAD FOR ENDSIGN AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN ABECD ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WONARD SOIL CONSERVATION DISTRICT AND THE 2011 MARTIAND STANDARDS & SPECIFICATIONS FOR SOIL ERGISION AND SEDIMENT CONFROL.

1/202c

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DATE

PROFESSIONAL CERTIFICATION I hereby certify that these documents were prepared or approved by me, and that I am a duly icenced professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 9-18-23.

DATE REVISIONS

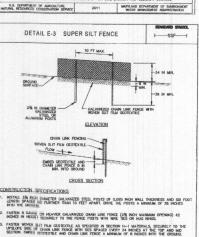
PLOT PLAN AND SEDIMENT CONTROL PLAN 2620 MULLINIX MILL ROAD LOT 3 McALLISTER PROPERTY

TAX MAP: 12 GRID NO: 16 PARCEL NO: 72

PLAT NO. 5023 ELECTION DISTRICT: No. 4 HOWARD COUNTY, MARYLAND EX. ZONING: RC-DEO SCALE: I" = 30' DATE: DECEMBER, 2021 SHEET 2 OF 3

VANMAR ASSOCIATES, INC. GP-22-77

ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Monyland 21771
(301) B29–2890 (301) B31–5015 (410) 549–2751
Fox (301) B31–5603 @Copyright, Latest Date Shown



DETAIL D-4-1-A ROCK OUTLET PROTECTION I

0/2 FLOW

Le B

PLAN VEW

TO A MIN. HEIGHT OF H

DARRIG A MIN. OF 4 M

MONROYCH
GEOTEXTILE OR
STORE FILTER
SECTION A—A

OF PLOCTATED
SECTION AT DO HONOVEN
OF APRICAL CRESSION FATOR SECTION B-8

FORCE THE SECTION B-8

FORCE THE SECTION B-8

OF ACTION FILTER SELECTION OF THE STORY FILTER SELECTION OF THE SELECTION

USE NONNOWER GESTEVERE AS SPECIFIED IN SECTION H-1 MATURALS, AND PROTECT FROM PRINCIPING, GIFTING, GR. FERRING, REPARK AND DAMAGE OFFER THAN AN OCCASIONAL SMALL HOLE OF FAZORA, MEMBER PECCE OF CONSTRUCT GOVER THE UNAMAGE DIPART OF MEMBER THE TREPLANDA OF FAZORA MEMBER PECCE OF CONSTRUCT OF VIRENZA FOR ALL REPARKS, AND FOR JOINING THE PROCESS OF MODIFICATION TO CONTROL TO

PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (% TO US INCH STONE FOR 6 INCH MINIMUM DEPTH) AND REPARE TO THE REQUIRED UNICS AND GRADES, COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DESIGNATORY OF APPROXIMATELY THAT OF THE SURFOXIONING UNDISTURBED MATERIAL

. EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF THE RIPRAP.

L CONSTRUCT RIPHAP OUTLET TO FULL COURSE THOOMES IN ONE OPERATION AND IN SUICH A MANNER
AS TO ANOU DIPPLACEMENT OF UNDERLYING MATERIALS PLACE STONE FOR RIPHAP OUTLET IN A
MANNER THAT HILL REQUEST THAT IT IS REASONABLY HOROPOISOUS WITH THE SMALLER STONES AND
SPALLS FILLING THE VIOLE RETRIEVED THE LARGER STONES. PLACE RIPHAP IN A MAINTER TO PREVIOUS
DAMAGE TO THE STONE PLETE BLANKET OR COLUMNEL HAND PLACE TO THE EXTENT MACESSARY.

WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIGHTH THE THEST THE DIAMETER OF THE GUTLET PIPE, AND EXTEND THE STORE UNDER THE GUTLET BY A MINIMUM OF THE MICHES.

CONSTRUCT APRON WITH OX SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE STHAT IT BLENDS IN WITH EDSTING GROUND. MAINTAIN LINE, GRADE, AND CROSS SECTION, KEEP OUTLET FREE OF EROSSON. REMOVE ACCIMILATED SEDMENT AND DERION. AFTER HOCH PLOWS INSPECT FOR SCORE AND DISLOBED RIPRAP, MAKE, NECESSARY BEFARE MALE TO.

CHANNEL CROSS SECTION WILL OVEN ON N

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDMENT BY PASS. EXTEND BOTH EIRIS OF THE SUPER SLT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO HE MAIN FENCE ALLGAMENT TO PREVENT RUNOFF FROM GOING ARCUND THE ENDS

REMOVE ACCUABLIATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT RELANGES ZOR OF FENCE HOLDER. REPLACE GEOTEXTILE IF TORN. IF UNDERMANING OCCURS, REINSTALL CHAIR LINK FEMERIC AND GEOTEXTILE.

SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SUFFACE. EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND, SOIL STABILIZATION MATTING MAY BE USED IN LIFLU OF IMPERIMEABLE SHEETING ALONG FLOW SURFACE. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNGRADE. KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION, REMOVE ACCUMULATED SEDMENT AND DEBRIS, MAINTAIN POSITIVE DRAINAGE, REPLACE MPERMANELE SHEETING F TORN, IF UNDERMINING OCCURS, REMISTAIL FINES MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTRO U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
2011
MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTRO U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
2011
MARYLAND DEPARTMENT OF ENARCHMENT
NATURAL RESOURCES CONSERVATION SERVICE
2011

DETAIL C-9

GROUND SURFACE

CONSTRUCTION SPECIFICATIONS

DIVERSION

10 FT MAX

CHAIN LINK FENCE COVERED WITH IMPERMEABLE SHEETING

ELEVATION

1 SECTION.

USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN

OR PROVIDE SOIL STABILIZATION MATTING
4 FT MIN. ALONG FLOW SURFACE

Row +

SHELTING 8 IN MIN.

FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.

FENCE

├── 0F ──**-**

MAXIMUM DRAINAGE AREA = 2 ACR

8 IN

SHEETING ON BOTH SIDES OF FENCE

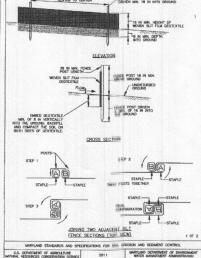
- 2% IN DIAMETER GALVANIZED STEEL OR ALLIMINUM POSTS

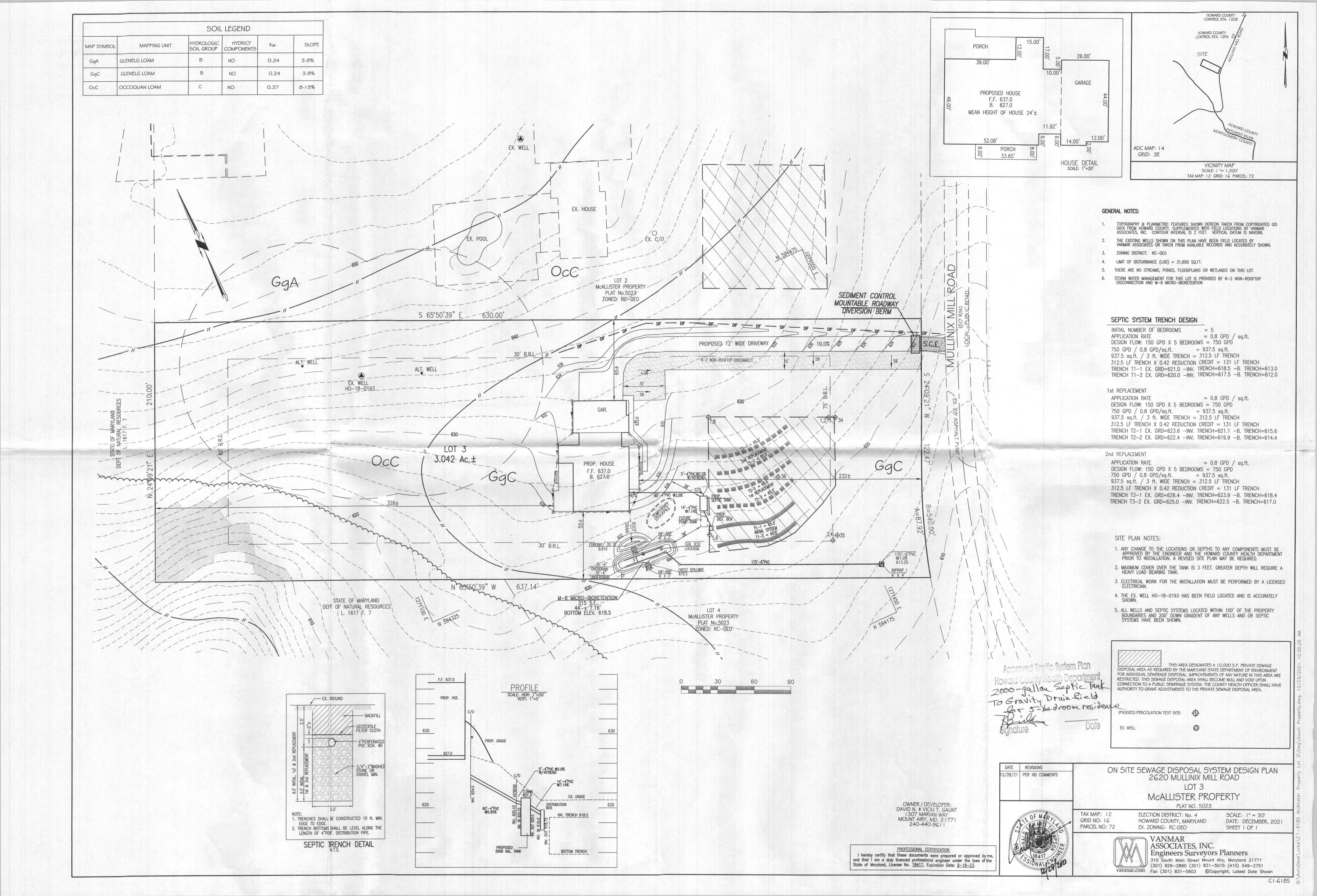
FOLD SHEETING OVER TOP OF FENCE AND SECURE WITH WIRE TIES

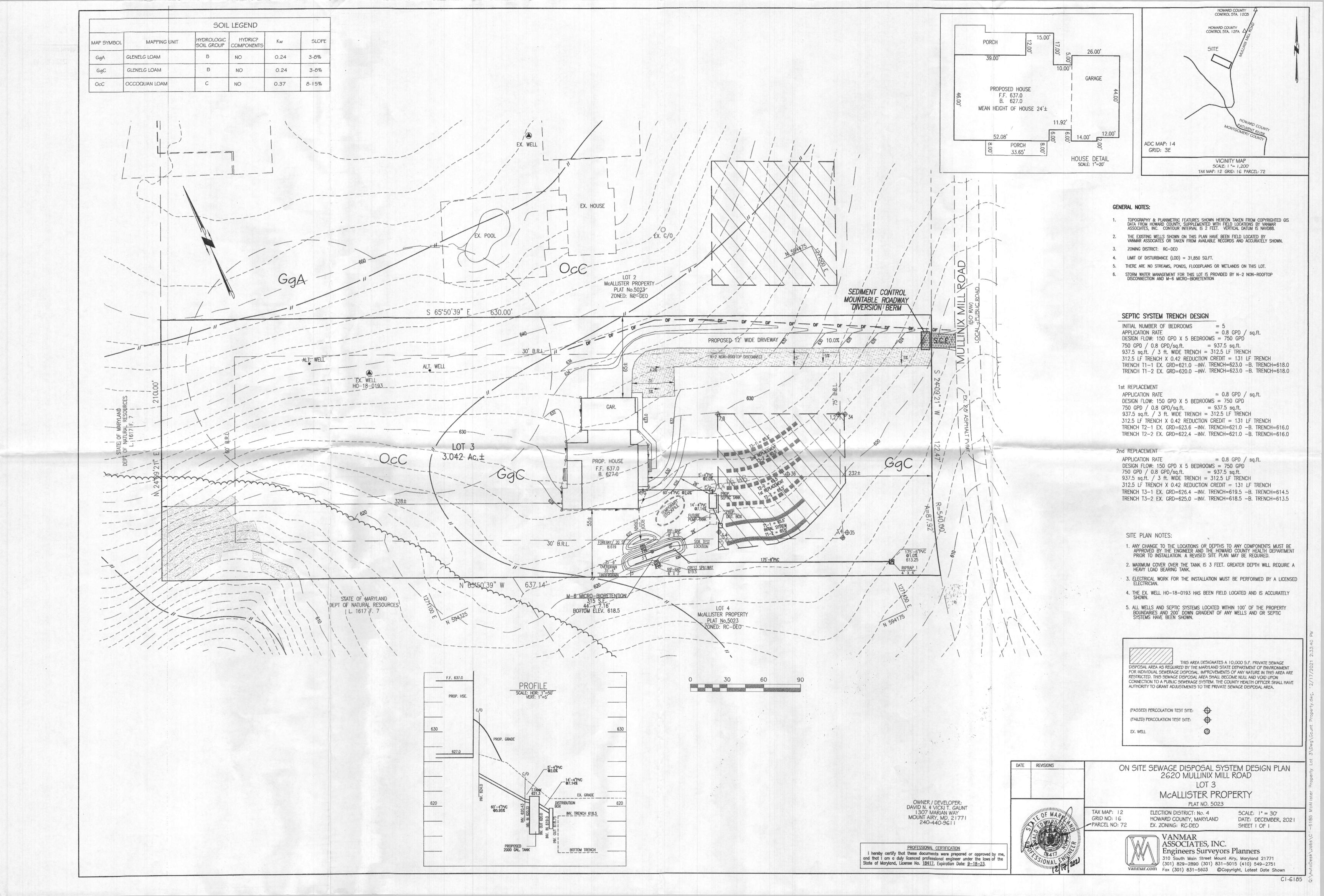
ENTRANCE 50 FT MIN. MGUNTABLE BERM MIN. 3 FT MIN. EXISTING GROUND NONWOVEN MIN. 6 IN OF 2 TO 3 IN ACCREGATE OVER LENGTH AND WIDTH OF ENTRANCE PROFILE DIST INCOAVEMENT ONSTRUCTION SPECIFICATIONS PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE EXTINCT HOT THE SEC. USE MINIOUN LENGTH OF 50 FEET ("VO) PEET FOR SMALE SENSIONES LOT). USE HOMBIAM WORL OF 10 FEET. PLANE SEC 10 FEET MINIOUN AT THE DESTING ROAD TO PROVIDE A TURNING RADIUS.

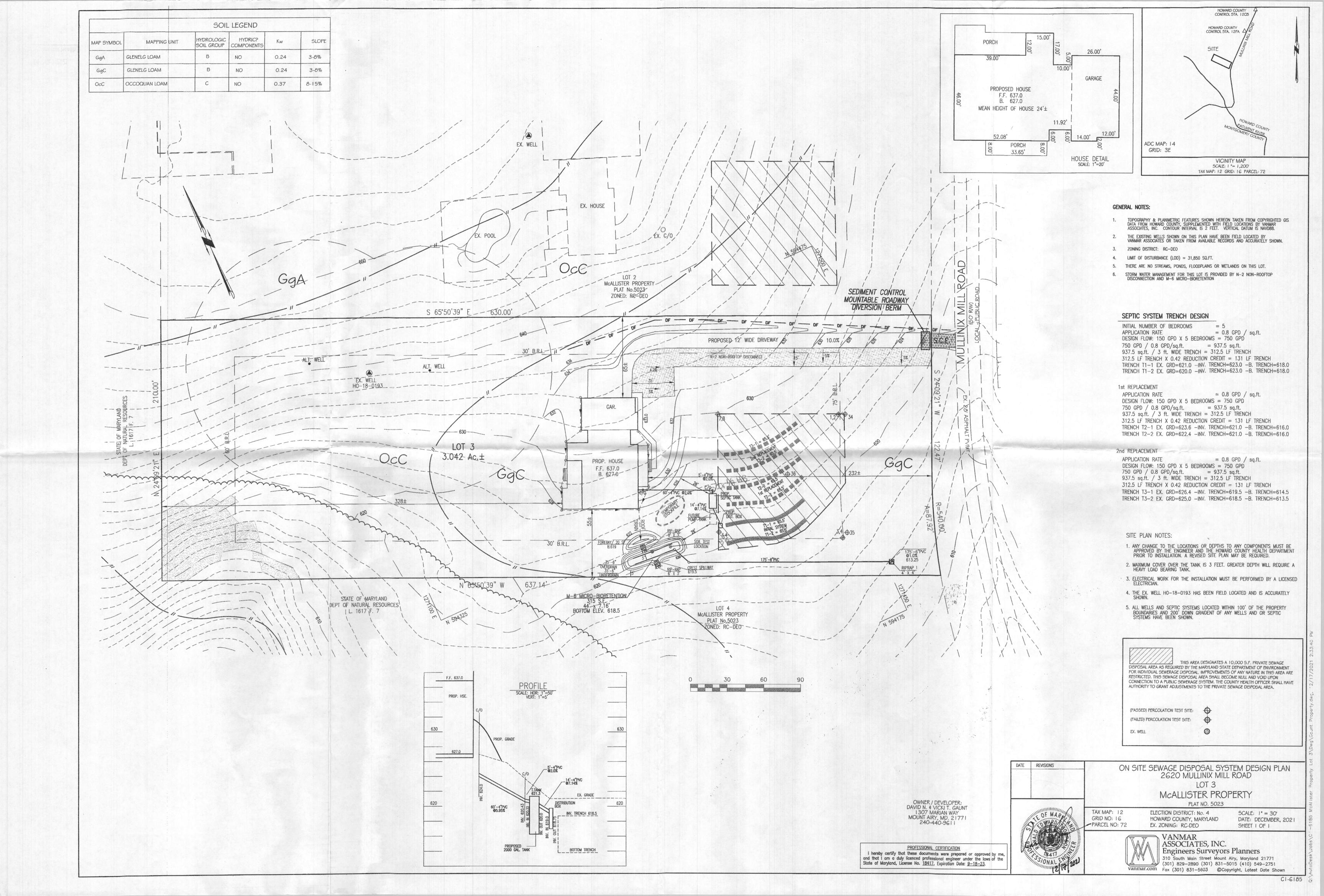
PPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SEE UNDER THE ENTRANCE, MAINTAINED PROSTRE DISBASKE, PROTECT PPER INSTALLED THROUGH THE SEE WITH A MAINTAINE PROSTRE DISBASKE, PROTECT PPER INSTALLED THROUGH OFFI THE SECRET PROSECULAR OFFI THROUGH OFFI THE SECRET PROSECULAR OFFI THROUGH OFFI THROUGH THROUGH SEE THROUGH THROUGH THROUGH SEE THROUGH THR

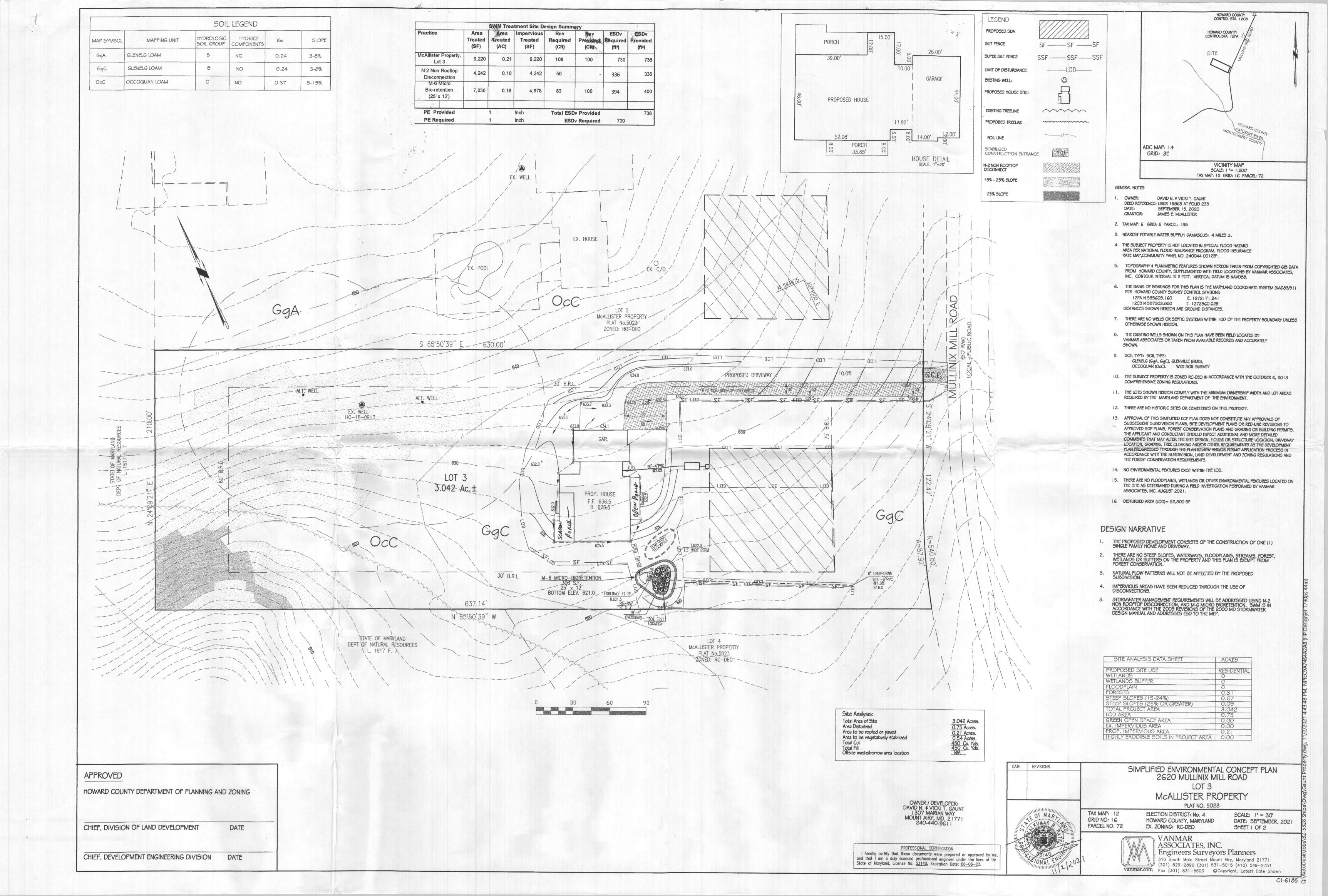
PREPARE SURCRADE AND PLACE NONWOVEN CENTEYTHE AS SPECIFIED IN SECTION IL-1 HATEDIA PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOU REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MANTAN ENTRANCE IN A CONCIDION THAT IMBIBACES TRACIONIC OF SEDIMENT, ADD STONE OR MANE OTHER REPAIRS AS CONDITIONS GUAMED IN MARKET RELIEF SUPPLIES MUSITABLE BURN, AND SPECIFED IMBIBACION. SIMILIZATION FRANCE STONE AND OF SEDIMENT SHALL (COPPED, OR FOR THE STONE AND OF SEDIMENT SHALL (COPPED, OR FOR THE STONE AND OTHER SEDIMENT OF SHALL OF SEDIMENT SHALL OF SEDIMENT SHALL OF SHA

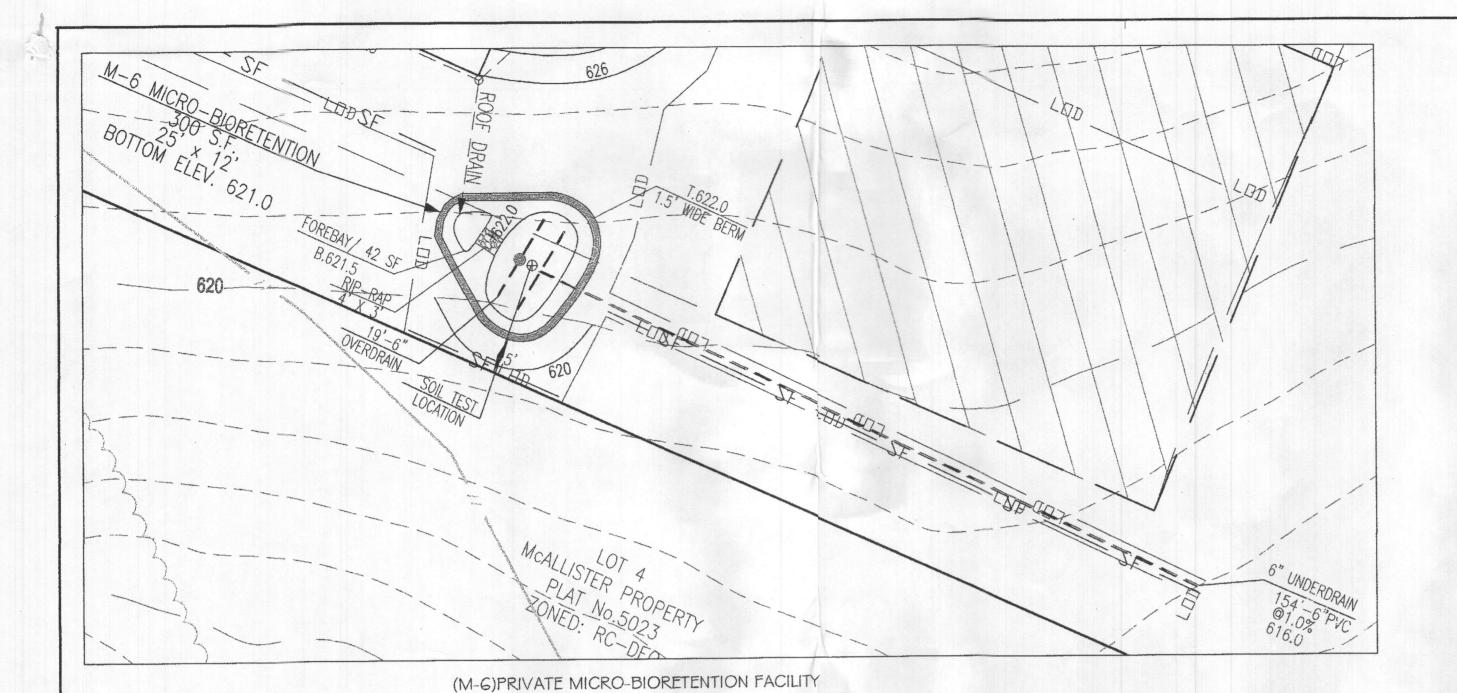




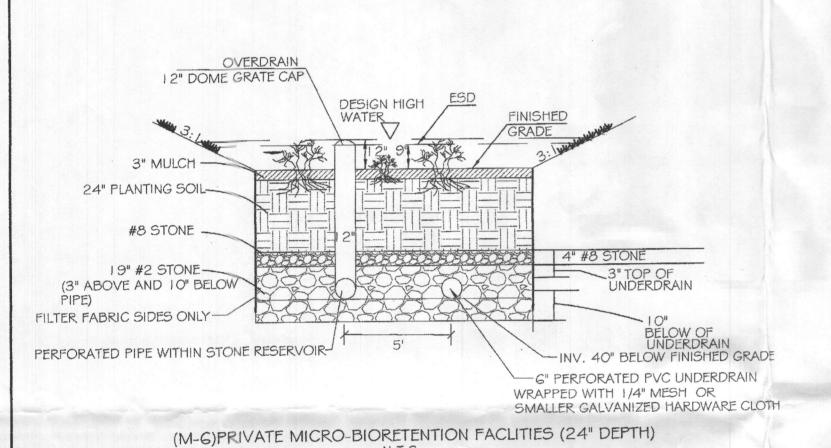








SCALE: 1"=20"



#### OPERATION AND MAINTENANCE SCHEDULE FOR MICRO BIO-RETENTION (M-6)

N.T.S.

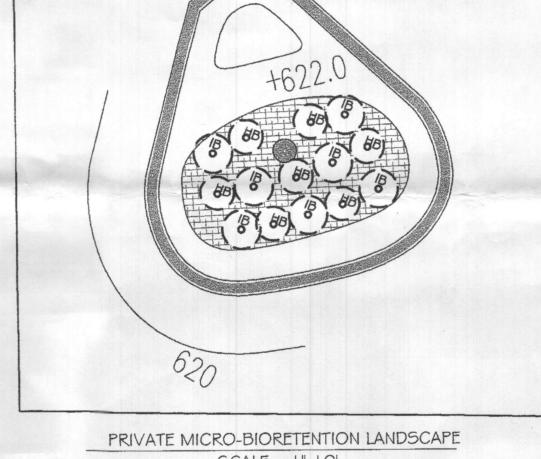
a. The Owner shall maintain the plant material, mulch layer and soil layer annually. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland Stormwater Design Manual Volume II, Table A.4.1 and 2.

b. The Owner shall perform a plant inspection in the spring and in the fall of each year. During the inspection the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes and wires.

DATE

DATE

- . The Owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years.
- The previous mulch layer shall be removed before the new layer is applied. d. The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.Inspect clean outs and observation wells along with overflow/outfall/exit pipes.



SCALE = 1":10"

Specifications for Micro-Bioretention. Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR

The planting soil shall be tested and shall meet the following criteria: Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)

Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost

Clay Content - Media shall have a clay content of less than 5%. pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled tapsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base. When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rotatill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh

#### Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

#### MAINTENANCE CRITERIA

1. The following items should be addressed to ensure proper maintenance and long-term performance of landscape infiltration:

2. Privately owned practices shall have a maintenance plan and shall be protected by easement, deed restriction, ordinance, or other ligal measures preventing its neglect, adverse alteration, and removal. 3. During the first year of operation, inspection frequency should be after every major storm and poorly

more appropriate species should be used. Watering may be required during prolonged dry periods.

4. Sediment accumulation on the surface of the facility should be removed and the top two to three inches of surface layer replaced as needed.

5. The top few inches of the planting soil should be removed and replaced when water ponds for more than 48 hours or there is algal growth on the surface of the facility.

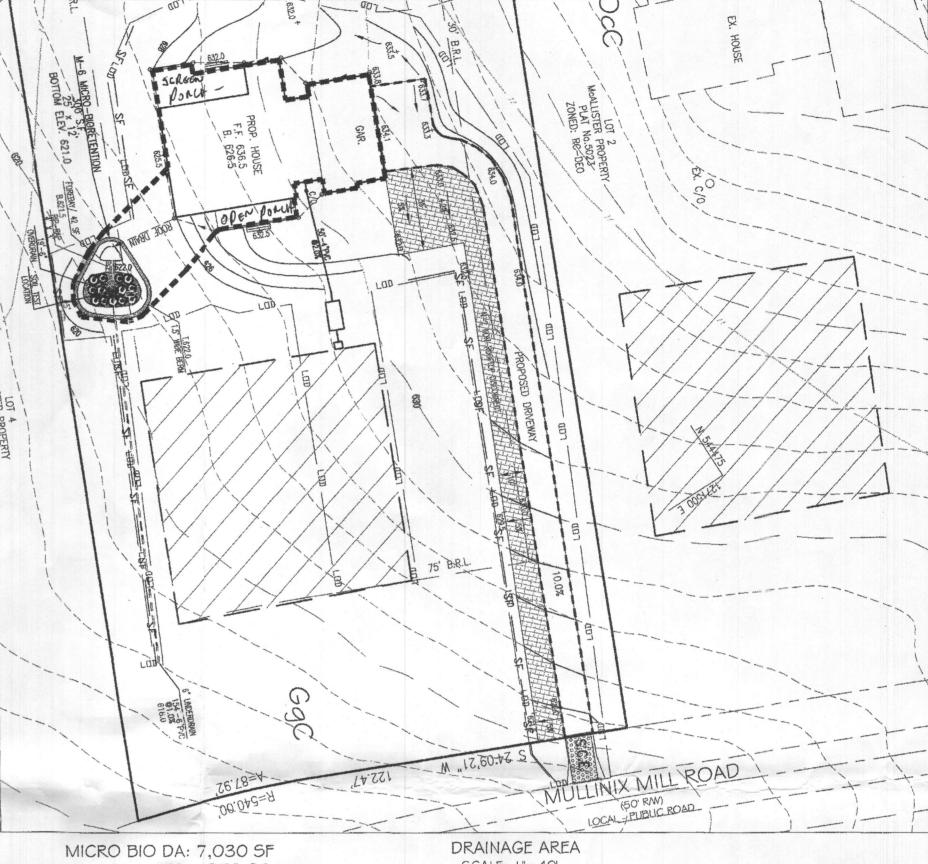
6. If standing water persists after filter media has been maintained, the gravel, soil, and sand may need to be 7. Occasional pruning and represent of dead vegetation is necessary. If specific plants are not surviving,

#### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN ALL REQUIRED GRADING, MDE PERMITS, APPROVALS AND LICENSES FROM APPROPRIATE AGENCIES.(1 WEEK)
- 2. NOTIFY SEDIMENT CONTROL INSPECTOR AT LEAST THREE (3) WORKING

DAYS PRIOR TO STARTING WORK. (1 WEEK)

- 3. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, DIVERSION FENCE AND OTHER SEDIMENT CONTROL DEVICES AS SHOWN IN THE SEDIMENT \CONTROL PLAN. (1 WEEK)
- 4. STABILIZE ALL THE GRADED AREAS UP TO 20' OUTSIDE OF THE LIMIT
- OF GRADING AS PER PERMANENT SEEDING NOTES.( 1 WEEK) 5. EXCAVATE HOUSE FOUNDATION, CONSTRUCT HOUSE AND INSTALL UTILITIES.(12 WEEKS)
- 6. ANY AREAS THAT CAN BE TEMPORARILY SEEDED DURING CONSTRUCTION
- MUST BE TEMPORARILY STABILIZED PER SEEDING NOTES.(1 WEEK) 7. INSTALL PRIVATE MICRO BIORETENTION FACILITIES, GRASS SHOULDER AND DRIVEWAYS.(2 WEEKS)
- 8. STABILIZE DISTURBED AREAS PER PERMANENT SEEDING NOTES.(1 WEEK)
- 9. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR; REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES FOR HOUSE CONSTRUCTION.(1 WEEK)
- 10. NOTIFY INSPECTOR FOR FINAL INSPECTION.(1 WEEK)



IA: 4978 SF GRASS SHOULDER DA: 4,242 SF IA: 4,242 SF

SCALE: 1"=40"

# MICRO-BIO FACILITY PROFILE SCALE: HOR: 1"=40' VERT: 1"=4'

#### MICRO BIO RETENTION FACILITY DIMENSION TABLE

				MICKO DIO KLILINITONI ACILITI DIMILINOTONI TADLE											
PLANTING LIST											TOP MUICH	GROUND ELEV. GROUND WATE			
KEY	QUANTITY	UANTITY BOTANICAL NAME	SIZE	FACILITY NO	LOCATION	LENGTH	WIDTH	SQUARE FT.	DEPTH INV.	STONE INV.	INV. OUT	ELEV. OUTFLOW SIDE DEPTH		DEPTH	
<b>(B)</b>		HIGHBUSH BLUBERRY VACCINIUM CORYMBOSUM			I ACIENT NO.	LOCATION				•	**		V.		
					MCALLISTER	25'	1.01	300	40"	10"	617.67	621.0	622.0	GREATER THAN	
(B)	7	INKBERRY ILEX GLABRA	18"		PROPERTY, LOT 3	25	12	300	40	10	017.07	021.0	622.0	10'	
			12" POTS												
	10														

\* DEPTH OF FACILITY FROM TOP OF THE MULCH TO INVERT OF 4" UNDER DRAIN \*\* DEPTH OF STONE BELOW UNDER DRAIN

> SWM FACILITY TABLE SWM#1 M-6 MICRO BIO-RETENTION 25' x 12' -12" PONDING

## APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

"HAMELN"

CHIEF, DIVISION OF LAND DEVELOPMENT

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DISCONN MICRO-Lot Number ECTION | BIORETENTIO OF ROOFTOP RUNOFF N-1 M-6 McAllister (Y/N) (NUMBER) Property Lot 3 2620 Mullink Mill Road Y | 1

> CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS BEFOIE START OF CONSTRUCTION

### OPERATION AND MAINTENANCE SCHEDULE FOR DISCONNECTION OF NON-ROOFTOP (N-2)

. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREA RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

> DAVID N. & VICKI T. GAUNT 1307 MARIAN WAY MOUNT AIRY, MD. 21771 240-440-9611

PROFESSIONAL CERTIFICATION I hereby certify that these documents were prepared or approver by me, and that I am a duly licenced professional engineer under the law of the State of Maryland, License No. 53140, Expiration Date: 06-06-23.

DEVELOPER/OWNER DATE SIMPLIFIED ENVIRONMENTAL CONCEPT PLAN DATE | REVISIONS 2620 MULLINIX MILL ROAD LOT 3 McALLISTER PROPERTY PLAT NO. 5023 TAX MAP: 12 ELECTION DISTRICT: No. 4 SCALE: 1" = 30' FMAR DATE: SEPTEMBER, 2021 GRID NO: 16 HOWARD COUNTY, MARYLAND PARCEL NO: 72 SHEET 2 OF 2

UNIONAL

EX. ZONING: RC-DEO VANMAR ASSOCIATES, INC.

Engineers Surveyors Planners 310 South Main Street Mount Airy, Maryland 21771 (301) 829-2890 (301) 831-5015 (410) 549-2751 vanmar.com Fax (301) 831-5603 @Copyright, Latest Date Shown

DEVELOPER'S/OWNER'S LANDSCAPE CERTIFICATE:

I/WE CERTIFY THAT LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE

YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE

DEPARTMENT OF PLANNING AND ZONING.

ACCORDING TO THIS PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE