DEPT. OF INSPECTIONS, LICENSES AND PERMITS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD 21043
PERMITS (410) 313-2455
INSPECTIONS (410) 313-1810
AUTOMATED INFORMATION (410) 313-3800

HOWARD COUNTY PERMIT APPLICATION

PERMIT NUMBER B1100303

Building Address 13560 TRIADELPHIA MILL RD CLARKSVILLE MD 21029

Suite/Apt. #: _____ SDP/WP/Petition #: _____

Census Tract _____ Subdivision _____

Section _____ Area _____ Lot _____

Tax Map _____ Parcel _____ Grid _____

Zoning Map Coordinates Lot Size

Property Owner's Name _____
Address _____
City _____ State _____ Zip Code _____
Home Phone _____ Work Phone _____
Applicant's Name & Mailing Address, (if other than stated herein):

Phone Fax

Existing Use _____
Proposed Use _____
Estimated Construction Cost $ _____

Description of Work INSTALL a 1000 GALLON UG PROPANE TANK

Occupant or Tenant _____

Contact Name _____

Address _____

City _____ State _____ Zip Code _____

Phone Fax

Contractor Company _____
Contact Person _____
Address _____
City _____ State _____ Zip Code _____
License No. _____
Phone Fax

Engineer or Architect Company _____

Contact Person _____

Address _____

City _____ State _____ Zip Code _____

Phone Fax

BUILDING DESCRIPTION – *COMMERCIAL*

Building Characteristics

Height:

No. of stories:

Gross area, sq. ft. per floor:

Use group:

Construction type:
____ Reinforced Concrete
____ Structural Steel
____ Masonry
____ Wood Frame

____ State Certified Modular

Utilities

Water Supply:
____ Public
____ Private
Sewage Disposal:
____ Public
____ Private

Electric Yes ☐ No ☐
Gas Yes ☐ No ☐

Heating System:
Electric ☐ Oil ☐
Natural Gas ☐
Propane Gas ☐

Sprinkler system: N/A ☐
____ Full
____ Partial
____ Other Suppression
____ # of Heads

BUILDING DESCRIPTION – *RESIDENTIAL*

Building Characteristics

SF Dwelling ☐ SF Townhouse ☐
Depth Width
1st floor:
2nd floor:
Basement:

Finished Basement ☐ Unfinished Basement ☐ Crawl space ☐ Slab on Grade ☐

No. of Bedrooms _____

Multi-family dwellings:
No. of efficiency units: _____
No. of 1 BR units: _____
No. of 2 BR units: _____
No. of 3 BR units: _____

Other Structure: _____
Dimensions: _____
Footings: _____
Roof: _____

____ State Certified Modular
____ Manufactured Home

Utilities

Water Supply:
____ Public
____ Private
Sewage Disposal:
____ Public
____ Private

Electric Yes ☐ No ☐
Gas Yes ☐ No ☐

Heating System:
Electric ☐ Oil ☐
Natural Gas ☐
Propane Gas ☐

Sprinkler system: N/A ☐
____ NFPA #13D
____ NFPA #13R
____ Other:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature _____ Print Name _____

Title/Company _____ Date _____

Checks payable to: **DIRECTOR OF FINANCE OF HOWARD COUNTY**
PLEASE WRITE NEATLY AND LEGIBLY.

- FOR OFFICE USE ONLY -

AGENCY	DATE	SIGNATURE APPROVAL
Land Development, DPZ		
State Highways		
Building Officials		
Dev. Engineering, DPZ		
Health	10-21-11	
Fire Protection		

Is Sediment Control approval required prior to issuance?
YES ☐ NO ☐

CONTINGENCY CONSTRUC TION START: ☐
ONE STOP SHOP: ☐

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met?
YES ☐ NO ☐

Is Entrance Permit Required?
YES ☐ NO ☐
Historic District?
YES ☐ NO ☐
Lot Coverage for New Town Zone _____
SDP/Red-line approval date _____

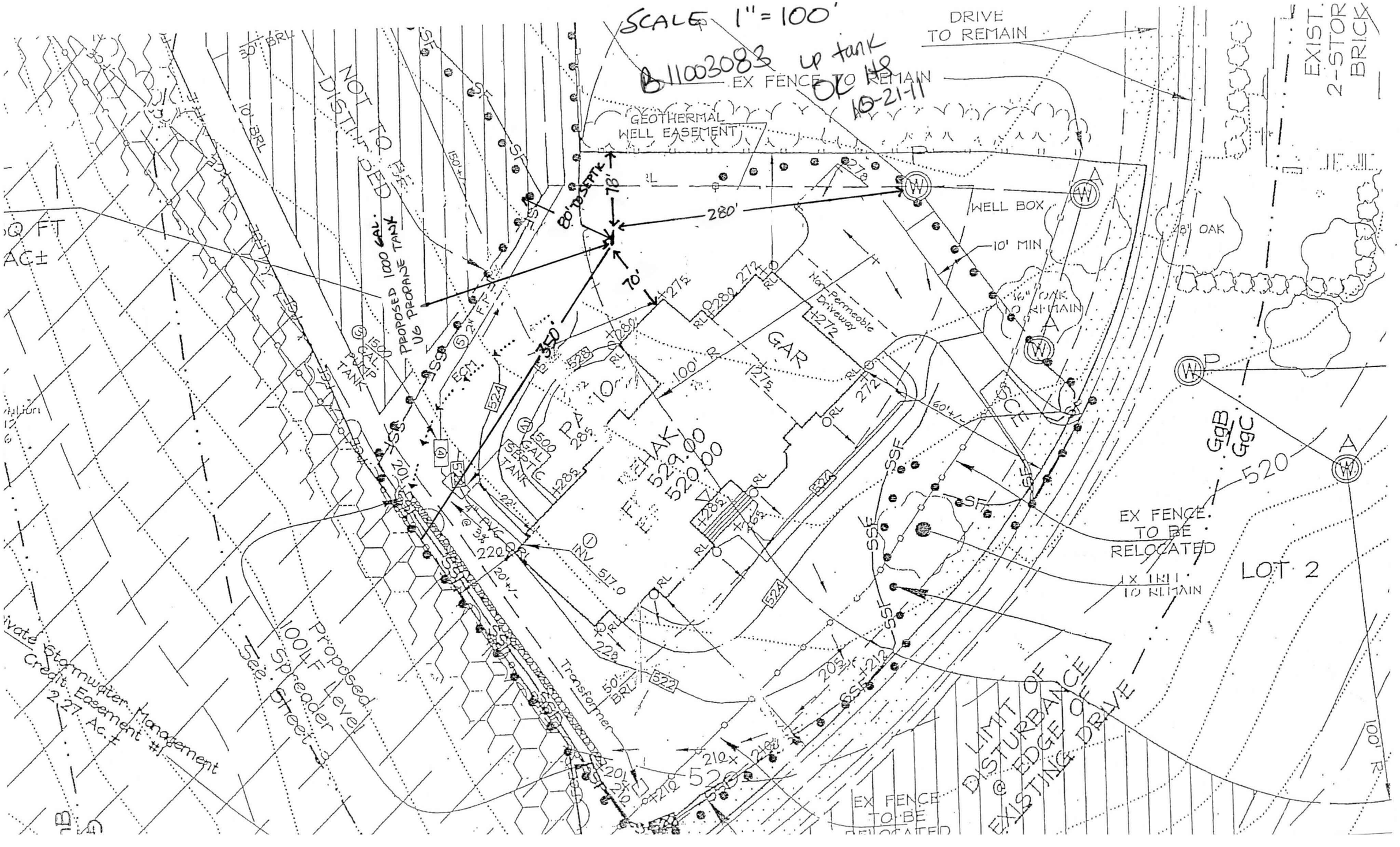
PROPERTY ID #

Filing fee $ 1020
Permit fee $ _____
Excise tax $ _____
Add'l per fee $ _____
TOTAL FEES $ _____
Sub-total paid $ _____
Balance due $ _____
Check # 1125
Validation # _____

Accepted by _____

Distribution of Copies - White: Building Officials Green: LDD, DPZ Yellow: DED, DPZ Pink: Health Gold: SHA

T:\Operations\Updated forms


SCALE 1" = 100'
B11003083 up tank
OK HS
10-21-11
DRIVE TO REMAIN
EXIST 2-STOR BRICK
EX FENCE TO REMAIN
GEOTHERMAL WELL EASEMENT
NOT TO DISTURBED
WELL BOX
10' MIN
28" OAK
16" OAK TO REMAIN
80' TO SEPTIC
78'
280'
70'
350'
PROPOSED 1000 GAL. UG PROPANE TANK
1500 GAL. PUMP TANK
Non Permeable Driveway
GAR
500 GAL SEPTIC TANK
PA
FF 529.00
EF 520.00
INV 517.0
Transformer
Proposed 100LF Level Spreader
See Street
Private Stormwater Management Credit Easement #1 2.27 Ac.±
EX FENCE TO BE RELOCATED
1X TRT TO REMAIN
LOT 2
LIMIT OF DISTURBANCE @ EDGE OF EXISTING DRIVE
GgB
GgC
520

Health

DEPT. OF INSPECTIONS, LICENSES AND PERMITS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MD 21043
PERMITS (410) 313-2455
INSPECTIONS (410) 313-1810
AUTOMATED INFORMATION (410) 313-3800

HOWARD COUNTY PERMIT APPLICATION

PERMIT NUMBER B10003807

Building Address 13360 Trindelphia Mill Road
Clarksville MD 21029

Suite/Apt. #: _____ SDP/WP/Petition #: _____

Census Tract _____ Subdivision _____

Section _____ Area _____ Lot _____

Tax Map _____ Parcel _____ Grid _____

Zoning Map Coordinates Lot Size

Property Owner's Name Louis Rehak
Address 13779 Lakeside Dr
City Clarksville State MD Zip Code 21029
Home Phone 3018021050 Work Phone _____
Applicant's Name & Mailing Address, (if other than stated herein):
Ben Harrison : GyC Group Ltd
611 Nursery Rd
Westminster MD 21157

Phone 410 840 0800 Fax 410 840 9211

Existing Use None
Proposed Use SFD
Estimated Construction Cost $ 1,190,000.00
Description of Work Construct Custom SFD
4 Bed, 4 Bath, 2-1/2 Bath, 3 floor elevator, 6 FP. 2 story

Occupant or Tenant _____

Contact Name _____

Address _____

City _____ State _____ Zip Code _____

Phone _____ Fax _____

Contractor Company GyC Group Ltd
Contact Person Mark Koski
Address 611 Nursery Rd
City Westminster State MD Zip Code 21157
License No. 125
Phone _____ Fax _____

Engineer or Architect Company Peter W Ratcliffe

Contact Person Peter Ratcliffe

Address 10404 Stevenson Rd

City Stevenson State MD Zip Code 21153

Phone 410 484 7010 Fax 410 484 3819

BUILDING DESCRIPTION – *COMMERCIAL*

Building Characteristics

Height:

No. of stories:

Gross area, sq. ft. per floor:

Use group:

Construction type:
____ Reinforced Concrete
____ Structural Steel
____ Masonry
____ Wood Frame

____ State Certified Modular

Utilities

Water Supply:
____ Public
____ Private
Sewage Disposal:
____ Public
____ Private

Electric Yes ☐ No ☐
Gas Yes ☐ No ☐

Heating System:
Electric ☐ Oil ☐
Natural Gas ☐
Propane Gas ☐

Sprinkler system: N/A ☐
____ Full
____ Partial
____ Other Suppression
____ # of Heads

BUILDING DESCRIPTION – *RESIDENTIAL*

Building Characteristics

SF Dwelling ☑ SF Townhouse ☐

	Depth	Width
1st floor:		
2nd floor:	44'	80'
Basement:	63	115

Finished Basement ☐ Unfinished Basement ☑ Crawl space ☐ Slab on Grade ☐

No. of Bedrooms 4

Multi-family dwellings:
No. of efficiency units: _____
No. of 1 BR units: _____
No. of 2 BR units: _____
No. of 3 BR units: _____

Other Structure: _____
Dimensions: _____
Footings: _____
Roof: _____

____ State Certified Modular
____ Manufactured Home

Utilities

Water Supply:
____ Public
✓ Private
Sewage Disposal:
____ Public
✓ Private

Electric Yes ☑ No ☐
Gas Yes ☐ No ☑

Heating System:
Electric ☑ Oil ☐
Natural Gas ☐
Propane Gas ☐
Geothermal ✓

Sprinkler system: N/A ☑
____ NFPA #13D
____ NFPA #13R
____ Other:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature

Ben Harrison
Print Name

6yc.group@veriton.net
Email Address

6yC Group Ltd
Title/Company

12/9/10
Date

Checks payable to: **DIRECTOR OF FINANCE OF HOWARD COUNTY**
PLEASE WRITE NEATLY AND LEGIBLY.

- FOR OFFICE USE ONLY -

AGENCY	DATE	SIGNATURE APPROVAL
✓ Land Development, DPZ		
✓ State Highways		
✓ Building Officials		
✓ Dev. Engineering, DPZ		
✓ Health	5-18-11	[signature]
Fire Protection		

Is Sediment Control approval required prior to issuance?
YES ☑ NO ☐

CONTINGENCY CONSTRUCTION START: ☐
ONE STOP SHOP: ☐

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met?
YES ☐ NO ☐

Is Entrance Permit Required?
YES ☐ NO ☐
Historic District?
YES ☐ NO ☐
Lot Coverage for New Town Zone _____
SDP/Red-line approval date _____

	PROPERTY ID #
Filing fee	$ 150.00
Permit fee	$
Excise tax	$
Add'l per fee	$
TOTAL FEES	$
Sub-total paid	$
Balance due	$
Check	# 21856
Validation	#

Accepted by [signature]

Distribution of Copies - **White: Building Officials** **Green: LDD, DPZ** **Yellow: DED, DPZ** **Pink: Health** **Gold: SHA**

INDEX OF SHEETS

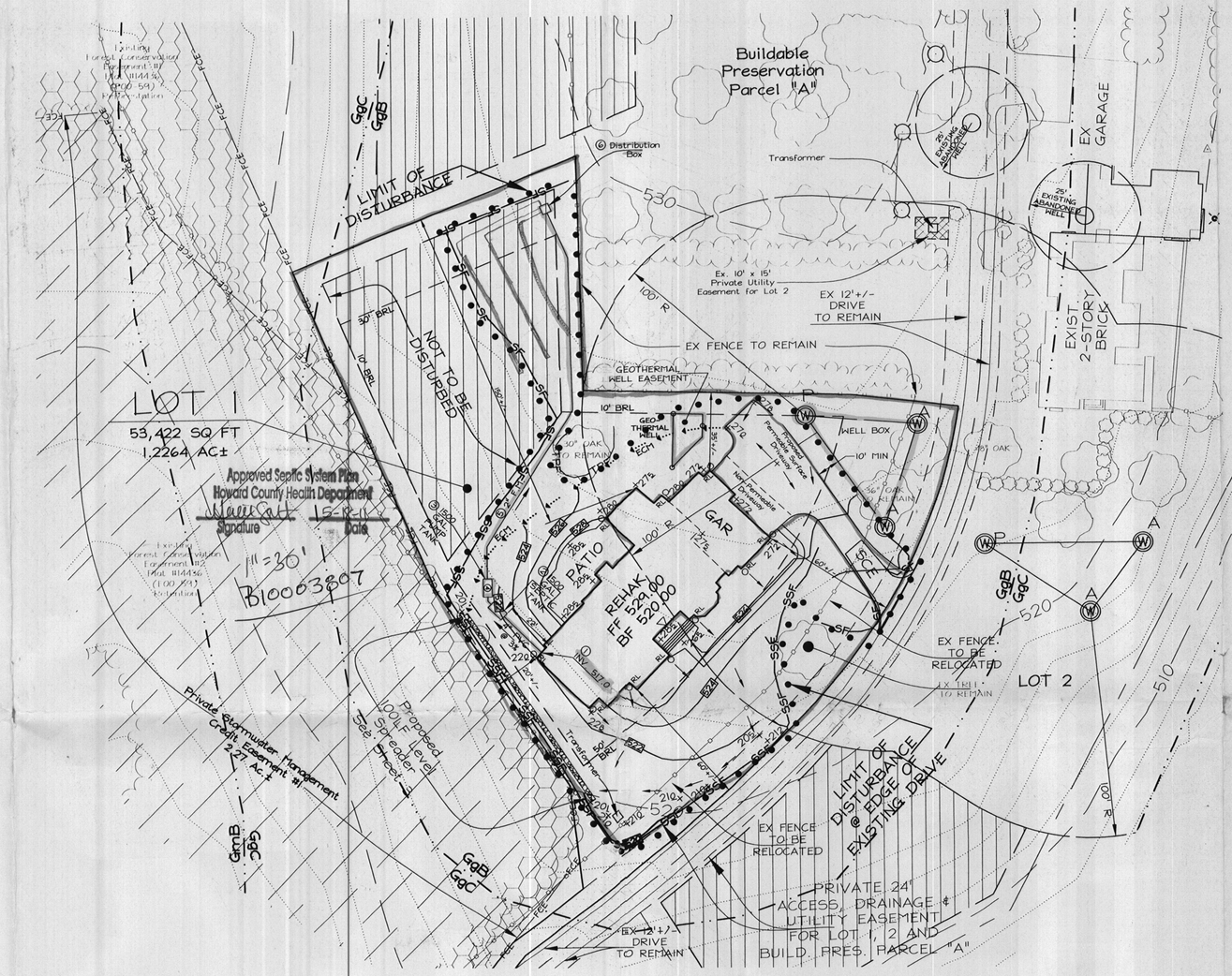
No.	Description
1	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN
2	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN - DETAILS
3	STORMWATER MANAGEMENT NOTES & DETAILS

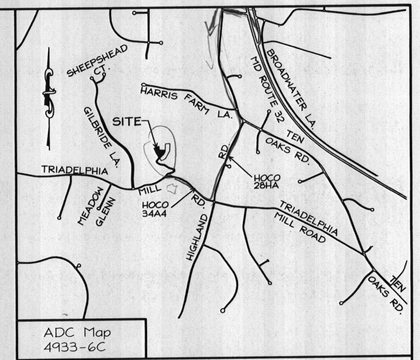
GENERAL NOTES

1. Existing Zoning: RR-DEO
2. Deed Reference: Liber , Folio
3. Plat Reference: Plat No.
4. Total Site Area: 1.2264 Acres
5. Proposed Number of Lots: 1
6. Total Limit of Disturbance 29,350 s.f. / 0.67 Ac.
7. Lot 1 Address: Triadelphia Mill Road, Dayton, MD, 21036
8. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least forty-eight (48) hours prior to any excavation work being done.
9. The contractor shall notify the Department of Public Works/Bureau of Engineering /Construction Inspection Division at 410-313-1880 at least five (5) working days prior to the start of work.
10. These Coordinates are based on NAD '83, Maryland State Plane Coordinate System, as projected from Howard County control stations: Station 28HA Station 34A4
11. DPZ Reference Numbers: F00-58, F00-59, WP00-65, F01-81, WP06-58, F 07-44, ECP 10-015, WP10-172, F 11-022
12. The lot shown hereon complies with the minimum lot area and ownership width as required by the Maryland Department of the Environment.
13. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
14. The topography shown on this plan is taken from a previously approved Percolation Certification Plan prepared by NJR & Associates dated 5/14/05 and signed by the County Health Officer on 8/8/05. Topography shown is at two foot contour intervals. The topography within the stream valleys has been amended to reflect field run surveys of January 2010 prepared by LDE, Inc. and merged with topography as described above.
15. This project is located outside of the Metropolitan District. The project is located in the rural west and will be served by private well and septic systems.
16. Stormwater management Stormwater management for Lot 1 is provided by use of Environmental Site Design by use of permeable surface and sheet flow to conservation area.
17. The sewage disposal system for this lot requires an exterior pump chamber and pump.
18. No stockpiling of material shall be permitted on this lot.
19. Landscaping for Lots 1, 2, Buildable Preservation Parcel "A" and Non-Buildable Bulk Parcel "B" is provided in accordance with a certified Landscape Plan on file with F 11-022.
20. This plan complies with the requirements of Section 16.1200 of the Howard County Code for Forest Conservation by RETENTION of 11.34 acres of forest in existing easements # 2,4,5,7,8,9 and 10 and Non easement credit areas located on Lot 2 (F00-59) and Lot 6 (F01-81) Thaler Estates, 1.18 acres of reforestation in existing easements #1 and #3 Thaler Estates (F00-59) and 3.26 acres of reforestation in existing easement #6 Thaler Estates(F00-59).
21. The revised percolation certification plan for this lot was signed by the Health Officer on 10/29/21010.
22. Any changes to a private sewage area shall require a revised percolation certification plan.
23. The geothermal wells proposed for this lot shall be a closed loop system.
24. The well for this lot must be drilled prior to building permit issuance.

PLAN VIEW

PLAN VIEW - 1" = 30'

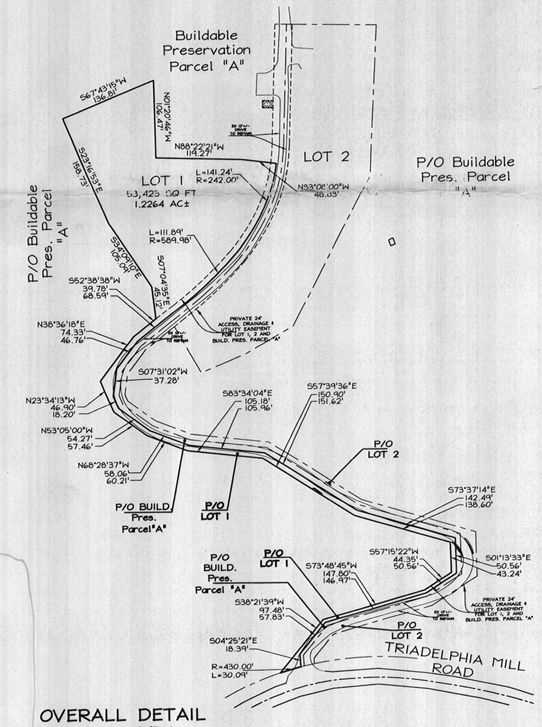




VICINITY MAP

1" = 2000'

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT.



OVERALL DETAIL FOR LOT 1

PLAN VIEW - 1" = 100'

LEGEND

- SCE — STABILIZED CONSTRUCTION ENTRANCE (SCE)
- LIMIT OF DISTURBANCE (LOD)
- SILT FENCE (SF)
- SUPER SILT FENCE (SSF)
- 568 / 570 — EXISTING CONTOURS (2' INTERVAL)
- 568 / 570 — PROPOSED GRADES (2' INTERVAL)
- EXISTING SEWAGE DISPOSAL EASEMENT ONSITE
- PROPOSED WELL
- EXISTING TREELINE
- TREE PROTECTION FENCING
- EROSION CONTROL MATTING (ECM)
- DRAINAGE FLOW ARROWS/

EASEMENT LEGEND

- PRIVATE STORMWATER MANAGEMENT CREDIT EASEMENT
- EXISTING F00-59 FOREST CONSERVATION EASEMENT
- VARIABLE WIDTH PRIVATE ACCESS, DRAINAGE & UTILITY EASEMENT

SOILS LEGEND:

GgB - Glenelg Loam, 3 to 8 percent slopes
GgC - Glenelg Loam, 8 to 15 percent slopes
4' - 10' depth to bedrock; 10'+ to water table; slight to severe limitations for sewage disposal fields and homes w/ basements depending on slopes; erosion hazard.
GmB - Glenville Silt Loam, 3 to 8 percent slopes

SEPTIC SYSTEM DESIGN DATA

1. 4" PVC @ Foundation Wall, Inv. Elev. = 517.0
2. 1500 Gal. Septic Tank (4 Bedroom)
   Inv. In Elev. = 516.3, Ground Over Tank @ 522.2
   Inv. Out Elev. = 516.0, Ground Over Tank @ 521.5
3. 1500 Gal. Pump Tank
   Inv. In Elev. = 515.9, Ground Over Tank @ 521.5
   Inv. Out Elev. = 516.4, Ground Over Tank @ 521.8
4. Effluent Pump = Gould - Model 3885 WE Series
   WE Submersible Effluent Pump - Item # WE2012H
   2 Horsepower, 230 Volt, 1 Phase or Equal * (See Note 2 Below)
5. 2" Force Main (Maintain 4 ft cover)
6. Distribution box: (Provide two outlet openings minimum)
   a. Ex. Ground over box: 528.50
   b. Prop. Ground over box: 528.50
   c. Invert In: 525.50

Notes: 1.) Trench design at time of installation based on site conditions.
2.) * For Substitute Effluent Pump: The septic installer shall provide Pump Specifications & Performance Curves at Time of Septic Permit Application

NOTES:

1. PROPOSED GRADING SHALL BE LIMITED TO A MAXIMUM OF 20 ACRE OF DISTURBANCE AT A ONE TIME.
2. GRADING SHALL BE MINIMIZED ON MODERATE & STEEP SLOPES
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER — DATE 11/29/10
BRUCE D. BURTON, P.E. 19184

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER — DATE 11/29/10
ROBERT B. WHITE

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

HOWARD SOIL CONSERVATION DISTRICT — DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19184, EXPIRATION DATE 9/30/2011.

SIGNED — 11/29/10
BRUCE D. BURTON

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

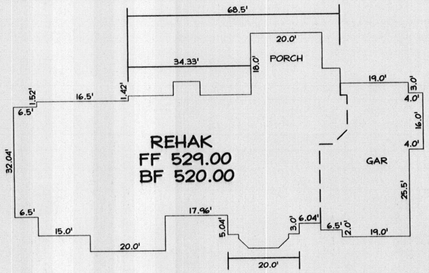
DESIGNED: BDB EDS	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN HEDGEROW FARM LOT 1 PART OF A RESUBDIVISION OF LOT 1, THALER ESTATES, PLAT #14436 Triadelphia Mill Road - RR-DEO Zoning Tax Map 28 Grid 20 Parcel 64 5th Election District - Howard County, Maryland Previous Submittals: F00-58, F00-59, WP 00-65, F01-81, WP06-58, F 07-44 ECP10-015, WP 10-172, F 11-022	SCALE: AS NOTED
DRAWN: EDS		DRAWING: 1 of 3
CHECKED: BDB		JOB NO. 09-009.2
DATE: 11/2010	OWNER/DEVELOPER: Hedgerow Farm LLC, 13803 Lakeside Drive, Clarksville, MD 21029-1025, (301)802-1051	FILE NO. GP11-

F:\09-009-Dylan\09-009-2 GP.a.dwg, GP, 10/12/2010 11:55:50 AM

FRONT ELEVATION

SCALE = N.T.S.
Date: 03-13-10

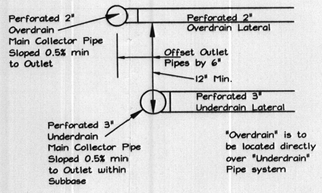
REHAK RESIDENCE
Peter W. Ratcliffe, AIA

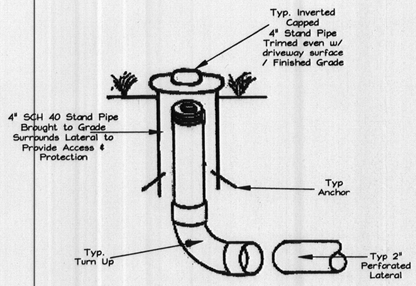


REHAK RESIDENCE - PLAN VIEW

SCALE 1" =20'

TYPICAL SECTION OVERDRAIN / UNDERDRAIN LOCATIONS





TYPICAL CLEANOUT 2" OVERDRAIN LATERAL

SCALE: N.T.S.

INSPECTION CHART FOR SHEET FLOW TO CONSERVATION AREA

STAGE	Engineer's Approval	
	Initials	Date
1. Buffer/FCE clearly marked along Lot 1 to ensure no disturbance.		
2. Prior to Use & Occupancy, verify area measurements to level spreaders		
3. Prior to Use & Occupancy, verify permanent stabilization has been established		

Please notify certifying engineer 48 hours prior to commencing construction

Engineer's Name: LDE, Inc.
Phone Number: 410-715-1070

Level Spreader - Sequence of Construction

1. Once the individual house has been constructed and the final lot grading is complete, contact the LDE, Inc./ certifying professional engineer/professional land surveyor (LDE, Inc. 410-715-1070)). Once the certifying professional has given his/her approval proceed as follows:
2. Construct Level Spreader and connect downspout conveyance pipes per details hereon under supervision of the certifying professional.

OPERATION AND MAINTENANCE SCHEDULE FOR LEVEL SPREADERS

1. LEVEL SPREADERS shall be installed after the contributing site has been stabilized unless filter fabric is placed over the device immediately after construction to divert sediment from entering the device.

2. After the site has been stabilized and with the inspector's approval, the fabric may be removed

3. Maintenance shall be performed on a level spreader by the lot / homeowner when sediment is visually apparent within the stone voids. The portion of the stones that are affected shall be removed and replaced by the lot / homeowner with clean stone.

MAINTENANCE CRITERIA FOR SHEET FLOW TO CONSERVATION AREA

CONSERVATION AREAS SHALL REMAIN UNMANAGED OTHER THAN ROUTINE DEBRIS REMOVAL AND REPAIRING AREAS OF CONCENTRATED FLOW. INVASIVE AND NOXIOUS PLANT REMOVAL AND BI-ANNUAL MOWING FOR MEADOW AREAS MAY BE NEEDED.

INSPECTION CHART FOR PERMEABLE SURFACES

STAGE	Engineer's Approval	
	Initials	Date
1. Inspection of excavation to subgrade. Surrounding site shall be stabilized.		
2. Inspection during placement and backfill of the drainage distribution system. (See Appendix B.4.)		
3. Inspection during placement of subbase material. Aggregate shall be clean, washed and free of fines with a porosity (n) of 30%. Material shall be placed in lifts and lightly rolled according to the specifications (See Appendix B.4.)		
4. Inspection during placement of surface material conforming to specifications found in Appendix B.4.		
5. Inspection upon the completion of final grading & establishment of permanent stabilization.		

Please notify certifying engineer 48 hours prior to commencing construction

Engineer's Name: LDE, Inc.
Phone Number: 410-715-1070

CONSTRUCTION CRITERIA FOR PERMEABLE SURFACES

1. Final grading for installation should not take place until surrounding site is stabilized. If this can not be accomplished, runoff from disturbed areas shall be diverted around proposed pavement location.

2. Sub soils shall not be compacted. Construction should be performed with lightweight, wide tracked equipment to minimize compaction. Excavated materials should be placed in a contained area.

3. Distribution Pipes - N/A.

4. Subbase aggregate shall be clean and free of fines. The subbase shall be placed in lifts and lightly rolled according to the specifications (Appendix B.4)

NOTE:

LDE, Inc. provides that listed in Appendix B.4. of the 2000 Maryland Stormwater Design Manual Volume 2 as guidelines to contractor and guidance in the shown overdrain & underdrain system. The contractor shall provide verification that the materials used meet the specifications shown within Appendix B.4.

Per Howard County SWM Seminar Example Packet - April 2010;

"MDE has indicated that ... For residential detached developments with small amounts of impervious areas the impervious areas should be treated at the source using ESD practices. If the ESD practices address the calculated Pe for the site impervious area and the ESDv, then the remaining grass areas of the site shall be considered adequate and no further treatment will be required."

No additional management required for Septic Area portion of site.

MAINTENANCE CRITERIA FOR PERMEABLE SURFACES

1. PAVEMENTS SHOULD BE USED WHEN REGULAR MAINTENANCE CAN BE PERFORMED TO ENSURE LONG TERM PERFORMANCE.
2. MAINTENANCE TO INCLUDE, SWEPT AND VACUMING TO REMOVE SEDIMENT ACCUMULATION TO ENSURE SURFACE POROSITY. SWEEPING SHOULD BE COMPLETED THICE ANNUALLY WITH A COMMERCIAL CLEANING UNIT. DO NOT USE COMPRESSED AIR OR WASHING SYSTEMS.
3. DRAINAGE PIPES, INLETS, STONE EDGES AND ANY OTHER STRUCTURES WITHIN OR DRAINING TO THE SUBBASE SHOULD BE CLEANED REGULARLY.
4. AVOID TRUCKS FROM TRACKING AND SPILLING MATERIALS WHICH CAN BE GROUND INTO THE PERMEABLE PAVEMENT.
5. DEICERS SHOULD BE USED IN MODERATION. DEICERS SHALL BE NON TOXIC AND ORGANIC. PLOWING SHALL BE DONE CAREFULLY WITH BLADES SET 1" HIGHER THAN NORMAL. SNOW PILE SHALL NOT BE PLACED ON THE PERMEABLE PAVEMENT.

B.4.B Specifications for Permeable Surfaces

These specifications include information on acceptable materials for typical applications and are not exclusive or limiting.

1. Pervious Concrete Specifications

Design Thickness - Pervious concrete applications shall be designed so that the thickness of the concrete slab shall support the traffic and vehicle types that will be carried. Applications may be designed using either standard pavement procedures (e.g., AASHTO, ACI 325.9R, ACI 330R) or using structural values derived from flexible pavement design procedures.

Mix & Installation - Traditional Portland cements (ASTM C 150, C 1157) may be used in pervious concrete applications. Phosphorus admixtures may also be used. Materials should be tested (e.g., trial batching) prior to construction so that critical properties (e.g., settling time, rate of strength development, porosity, permeability) can be determined.

Aggregate - Pervious concrete contains a limited fine aggregate content. Commonly used gradations include ASTM C 33 No. 67 (3/4 in. to No. 4), No. 8 (3/8 in. to No. 16) and No. 89 (3/8 in. to No. 50) sieves. Single-sized aggregate (up to 1 inch) may also be used.

Water Content - Water-to-cement ratios between 0.27 and 0.30 are used routinely with proper inclusion of chemical admixtures. Water quality should meet ACI 30a. As a general rule, potable water should be used although recycled concrete production water meeting ASTM C 94 or AASHTO M 157 may also be used.

Admixtures - Chemical admixtures (e.g., retarders or hydration-stabilizers) are used to obtain special properties in pervious concrete. Use of admixtures should meet ASTM C 494 (chemical admixtures) and ASTM C 260 (air entraining admixtures) and closely follow manufacturer s recommendations.

Base Course - The base course shall be AASHTO No. 3 or 4 course aggregate with an assumed open pore space of 30% (n = 0.30).

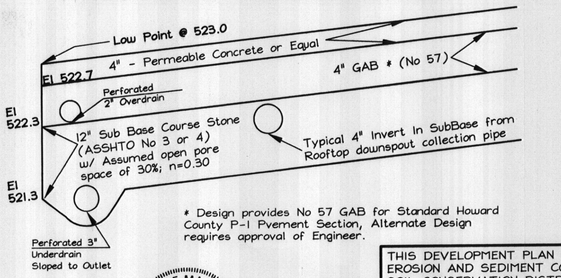
2. Permeable Interlocking Concrete Pavements (PICP)

Paver Blocks - Blocks should be either 3 in. or 4 in. thick, and meet ASTM C 936 or CSA A231.2 requirements. Applications should have 20% or more (40% preferred) of the surface area open. Installation should follow manufacturers instructions, except that infill and base course materials and dimensions specified in this Appendix shall be followed.

Infill Materials and Leveling Course - Openings shall be filled with ASTM C-33 graded sand or sandy loam. PICP blocks shall be placed on a one-inch thick leveling course of ASTM C-33 sand.

Base Course - The base course shall be AASHTO No. 3 or 4 course aggregate with an assumed open pore space of 30% (n = 0.30).

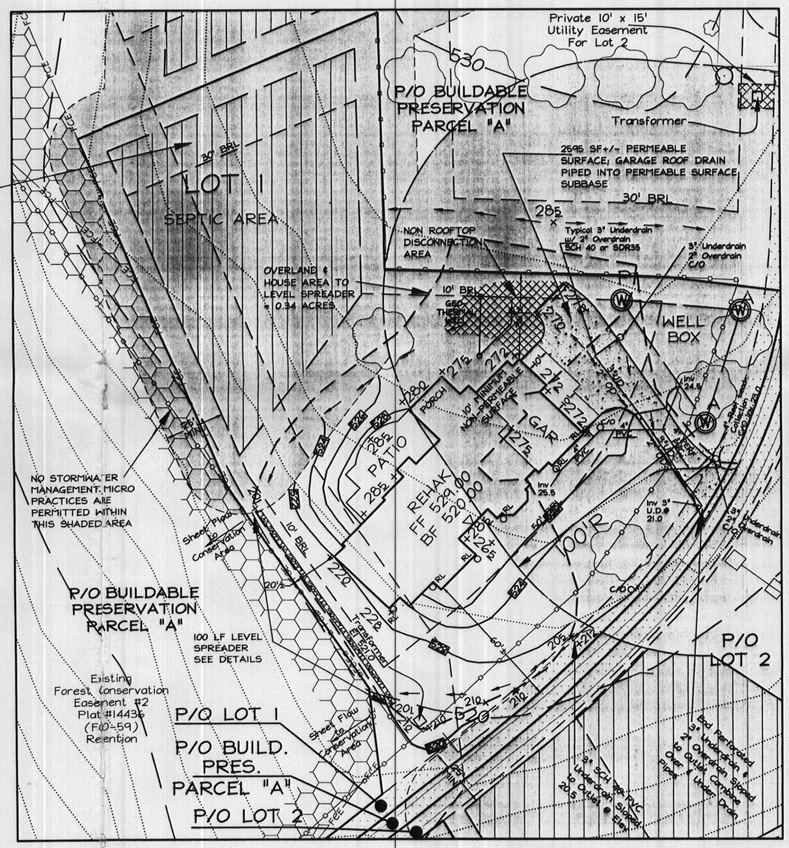
TYPICAL SECTION - PERMEABLE SURFACES



* Design provides No 57 GAB for Standard Howard County P-1 Pvement Section, Alternate Design requires approval of Engineer.

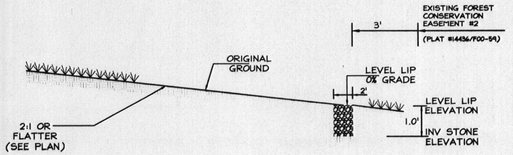
SWM LEGEND

- NON-ROOFTOP DISCONNECTION AREA
- NON-PERMEABLE SURFACE
- EXCLUSION ZONE (SWM PRACTICES NOT PERMITTED)
- PERMEABLE SURFACE



SHEET FLOW CONSERVATION AREA / PERMEABLE SURFACE

PLAN VIEW - 1" = 30'

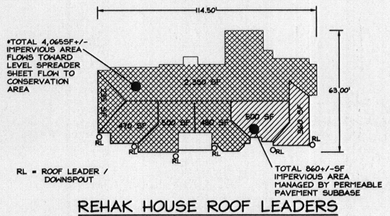


PROFILE

LEVEL SPREADER NUMBER	TOP STONE ELEV	INV STONE ELEV	LEVEL LIP ELEV
1	520.1	519.1	520.1

LEVEL SPREADER (Sheet Flow to Conservation Area)

NOTE: THE STORMWATER MANAGEMENT DESIGN SHOWN WITH THIS PLAN PROVIDES COMPLIANCE WITH ENVIRONMENTAL SITE DESIGN AS REQUIRED BY 5/5/10. FINAL DESIGN OF ALL STORMWATER CONTROLS AND FEATURES SHALL BE PROVIDED PRIOR TO BUILDING PERMIT ISSUANCE.



REHAK HOUSE ROOF LEADERS

SCALE: 1"=30'

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER — DATE 11/29/10
BRUCE D. BURTON, P.E. 19184

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

member — 11/29/10
SIGNATURE OF DEVELOPER — DATE
ROBERT B. WHITE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19184, EXPIRATION DATE 6/30/2011.

SIGNED — 11/29/10
BRUCE D. BURTON

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

HOWARD SOIL CONSERVATION DISTRICT — DATE

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
9250 Rumsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

DESIGNED: BDB EDS	STORMWATER MANAGEMENT NOTES & DETAILS	SCALE: AS SHOWN
DRAWN: EDS	**HEDGEROW FARM** LOT 1 PART OF A RESUBDIVISION OF LOT 1, THALER ESTATES, PLAT #14436 Triadelphia Mill Road - RR-DEO Zoning Tax Map 28 Grid 20 Parcel 64 5th Election District - Howard County, Maryland	DRAWING: 3 of 3
CHECKED: BDB	Previous Submittals: F00-56, F00-59, HP 00-65, F01-81, WP06-58, F 07-44 ECP10-015, HP 10-172, F 11-022	JOB NO. 09-009.2
DATE: 11/2010	OWNER/DEVELOPER: Hedgerow Farm LLC 13803 Lakeside Drive Clarksville, MD 21029-1025 (301)802-1051	FILE NO. GP11-

GP-11-

F:\09-009-2\dwg\09-009-2 GP SWMutility SWM, 12/1/2010 10:10:47 AM

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PERMITS (410) 313-2455 INSPECTIONS (410) 313-1850	**HOWARD COUNTY RESIDENTIAL HEATING-VENTILATION-AIR CONDITIONING AND REFRIGERATION PERMIT APPLICATION**	HVACR PERMIT # M110000982 BUILDING PERMIT # B100003807

BUILDING ADDRESS: 13560 Trinidiphia Rd Clarksville MD 21029
SUITE/APT:
SUBDIVISION:
CENSUS TRACT: SECTION: 28 AREA:
LOT: TAX MAP: PARCEL:
BLOCK: ZONE:
PROPERTY ID: 877817 MAP COORDINATES:
TYPE OF IMPROVEMENTS: USE:

OWNERS NAME: Louis Rehak
ADDRESS: 13779 Lakeside Dr
CITY: Clarksville
STATE: MD ZIP CODE: 21029
HOME PHONE: WORK PHONE:

	CHECK ONE	HOW MANY	
SINGLE FAMILY DWELLING	☑	3	ZONES
SINGLE FAMILY TOWNHOUSE	☐		ZONES
MULTI-FAMILY / HOTEL/MOTEL	☐		ROOMS
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS)	☐		ROOMS

COMPANY NAME: A Quality HVAC
LICENSEE NAME: Joshua A Dietz
ADDRESS: 1824 Ridge Rd
CITY: Westminster
STATE: MD ZIP CODE:
PHONE: 410 751 9700 HVACR LICENSE NO: 48393

New
- ☐ Heating and Air Conditioning
- ☒ Geo Thermal System

Replacement
- ☐ Heating
- ☐ Air Conditioning
- ☐ Heating and Air Conditioning

- ☐ Heating System Only
- ☐ Ductless Mini Splits

11/4/2011 approved BB

- ☐ Other Work (Describe):
- ☐ Thru The Wall Systems

Additions and Alterations
- ☐ Heating
- ☐ Air Conditioning
- ☐ Heating and Air Conditioning

****Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required****

Zones		Rooms	
Permit Fee = # of Zones x $40 =	120.-	Permit Fee = # of Rooms x $80 =	
Technology Fee (10% of Permit Fee) =	12.-	Technology Fee (10% of Permit Fee) =	
Plus Application Fee	$50.00	Plus Application Fee $50	$50.00
Total Fees Due =	182.00	Total Fees Due =	

I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND

SIGNATURE OF LICENSEE DATE

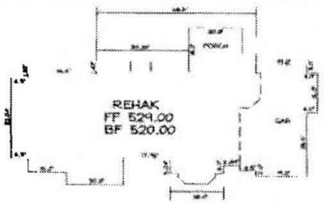
Joshua A Dietz
PRINT NAME OF LICENSEE

J.Dietz@AQualityHVAC.com
Email Address

Validation
Check Number: 10694
Cash:
Receipt Number: 056350

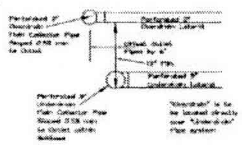
Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

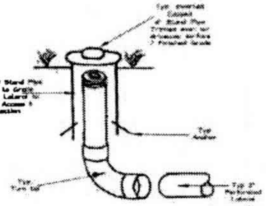
Word doc: T:\Updated Forms\hvac application
Rev:10.2009



REHAK RESIDENCE - PLAN VIEW

TYPICAL SECTION OVERDRAIN / UNDERDRAIN LOCATIONS





TYPICAL CLEANOUT
2" OVERDRAIN LATERAL
SCALE: N.T.S.

INSPECTION CHART FOR SHEET FLOW TO CONSERVATION AREA

STAGE	Engineer's Approval	
	Initials	Date
1. [illegible]		
2. [illegible]		
3. [illegible]		

Please notify certifying engineer 48 hours prior to commencing construction

Engineer's Name: LDE, Inc.
Phone Number: [illegible]

Level Spreader - Sequence of Construction

1. [illegible]
2. [illegible]

OPERATION AND MAINTENANCE SCHEDULE FOR LEVEL SPREADERS

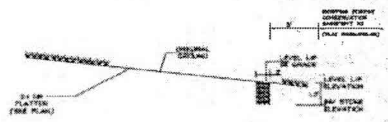
1. LEVEL SPREADERS shall be installed after the contributing site has been stabilized unless filter fabric is placed over the device immediately after construction to divert sediment from entering the device.

2. After the site has been stabilized and with the inspector's approval, the fabric may be removed.

3. Maintenance shall be performed on a level spreader by the lot / homeowner when sediment is visually apparent within the stone voids. The portion of the stones that are affected shall be removed and replaced by the lot / homeowner with clean stone.

MAINTENANCE CRITERIA FOR SHEET FLOW TO CONSERVATION AREA

CONSERVATION AREAS SHALL REMAIN UNCHANGED OTHER THAN ROUTINE DEBRIS REMOVAL AND REPAIRING AREAS OF CONCENTRATED FLOW, INVASIVE AND NOXIOUS PLANT REMOVAL AND BI-ANNUAL MOWING FOR MEADOW AREAS MAY BE NEEDED.



PROFILE

LEVEL SPREADER NUMBER	TOP STONE ELEV.	INV STONE ELEV.	LEVEL LIP ELEV.
1	[illegible]	[illegible]	[illegible]

LEVEL SPREADER
(Sheet Flow to Conservation Area)

INSPECTION CHART FOR PERMEABLE SURFACES

STAGE	Engineer's Approval	
	Initials	Date
1. [illegible]		
2. [illegible]		
3. [illegible]		
4. [illegible]		
5. [illegible]		

Please notify certifying engineer 48 hours prior to commencing construction

Engineer's Name: LDE, Inc.
Phone Number: [illegible]

MAINTENANCE CRITERIA FOR PERMEABLE SURFACES

1. PAVEMENTS SHOULD BE USED WHEN REGULAR MAINTENANCE CAN BE PERFORMED TO ENSURE LONG TERM PERFORMANCE.
2. MAINTENANCE TO INCLUDE, SWEEPING AND VACUUMING TO REMOVE SEDIMENT ACCUMULATION TO ENSURE SURFACE POROSITY. SWEEPING SHOULD BE COMPLETED TWICE ANNUALLY WITH A COMMERCIAL CLEANING UNIT. DO NOT USE COMPRESSED AIR OR WASHING SYSTEMS.
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CONSTRUCTION CRITERIA FOR PERMEABLE SURFACES

[illegible]

NOTE:

LDE, Inc. provides that listed in Appendix B.4. of the 2000 Maryland Stormwater Design Manual Volume 2 as guidelines to contractor and guidance in the shown overdrain & underdrain system. The contractor shall provide verification that the materials used meet the specifications shown within Appendix B.4.

§ Per Howard County SWM Sectional Example Packet - April 2010.

"MDE has indicated that ... For residential detached developments with small amounts of impervious areas the impervious areas should be treated at the source using ESD practices. If the ESD practices address the calculated Pe for the site impervious area and the ESDv, then the remaining grass areas of the site shall be considered adequate and no further treatment will be required."

No additional management required for Septic Area portion of site.

B.4.B Specifications for Permeable Surfaces

These specifications include information on acceptable materials for typical applications and are not exclusive or limiting.

1. Pervious Concrete Specifications

Design Thickness - Pervious concrete applications shall be designed so that the thickness of the concrete slab shall support the traffic and vehicle types that will be carried. Applications may be designed using either standard pavement procedures (e.g., AASHTO, ACI 325.9R, ACI 330R) or using structural values derived from flexible pavement design procedures.

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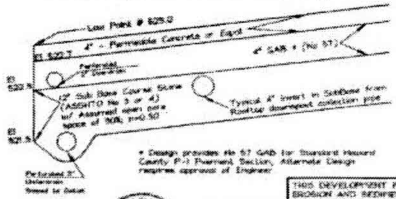
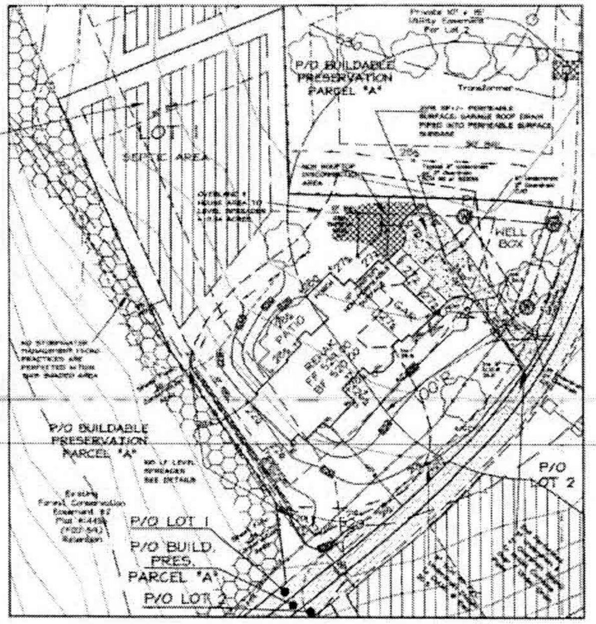
TYPICAL SECTION - PERMEABLE SURFACES



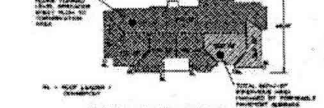
SWM LEGEND

Symbol	Description
(cross-hatched)	NON-ROOFTOP DISCONNECTION AREA
(blank)	NON-PERMEABLE SURFACE
(blank)	EXCLUSION ZONE (SWM PRACTICES NOT PERMITTED)
(dotted)	PERMEABLE SURFACE



SHEET FLOW CONSERVATION AREA / PERMEABLE SURFACE

NOTE: THE STORMWATER MANAGEMENT DESIGN SHOWN WITH THIS PLAN PROVIDES COMPLIANCE WITH ENVIRONMENTAL SITE DESIGN AS REQUIRED BY 5/5/10. FINAL DESIGN OF ALL STORMWATER CONTROLS AND FEATURES SHALL BE PROVIDED PRIOR TO BUILDING PERMIT ISSUANCE.



REHAK HOUSE ROOF LEADERS

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, [illegible]

Signed: [signature] 11/29/10

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

HOWARD SOIL CONSERVATION DISTRICT — DATE

ENGINEER'S CERTIFICATE

[illegible] [signature] 11/29/10

DEVELOPER'S CERTIFICATE

[illegible] [signature] 11/29/10

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners

STORMWATER MANAGEMENT NOTES & DETAILS
HEDGEROW FARM
LOT 1
PART OF A RESUBDIVISION OF LOT 1, THALER ESTATES, PLAT #4434
Tax Map 28, Grid 20, Parcel 4
5th Election District - Howard County, Maryland

DESIGNED	BDB EDS	SCALE	AS SHOWN
DRAWN	EDS	SHEET	3 of 3
CHECKED	BDB	JOB NO.	09-009.2
DATE	11/2010	FILE NO.	GP11-

OWNER/DEVELOPER: Hedgerow Farm LLC, [illegible] Drive, Clarksville, MD [illegible]

M11600982

INDEX OF SHEETS

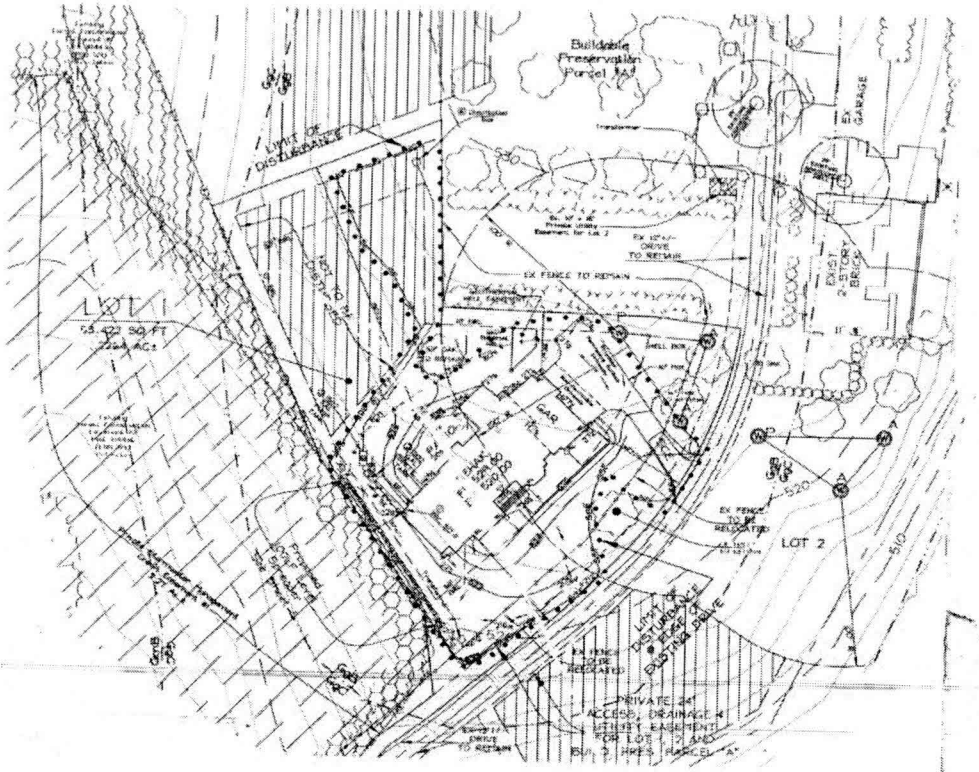
No.	Description
1	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN
2	GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN - DETAILS
3	STORMWATER MANAGEMENT NOTES & DETAILS

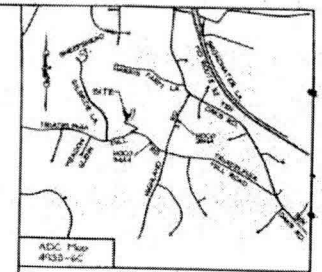
GENERAL NOTES

1. Existing Zoning: RR-DEO
2. Deed Reference: Liber , Folio
3. Plat Reference: Plat No
4. Total Site Area: 1.2264 Acres
5. Proposed Number of Lots: 1
6. Total Limit of Disturbance 24,350 s.f. / 0.67 Ac.
7. Lot 1 Address: Triadelphia Mill Road, Dayton, MD. 21036
8. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least forty-eight (48) hours prior to any excavation work being done.
9. The contractor shall notify the Department of Public Works/Bureau of Engineering /Construction Inspection Division at 410-313-1880 at least five (5) working days prior to the start of work
10. These Coordinates are based on NAD '83, Maryland State Plane Coordinate System, as projected from Howard County control stations: Station 28HA Station 34AA
11. DPZ Reference Numbers: F00-56, F00-59, WP00-65, F01-51, WP06-58, F 07-44, ECP 10-015, WP10-172, F 11-022
12. The lot shown hereon complies with the minimum lot area and ownership width as required by the Maryland Department of the Environment.
13. Existing wells, septic systems, and sewage disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewage disposal areas have been shown.
14. The topography shown on this plan is taken from a previously approved Percolation Certification Plan prepared by NJR & Associates dated 5/14/05 and signed by the County Health Officer on 8/5/05. Topography shown is at two foot contour intervals. The topography within the stream valleys has been amended to reflect field run surveys of January 2010 prepared by LDE, Inc. and merged with topography as described above.
15. This project is located outside of the Metropolitan District. The project is located in the rural west and will be served by private well and septic systems.
16. Stormwater management: Stormwater management for Lot 1 is provided by use of Environmental Site Design by use of permeable surface and sheet flow to conservation area.
17. The sewage disposal system for this lot requires an exterior pump chamber and pump.
18. No stockpiling of materials shall be permitted on this lot.
19. Landscaping for Lots 1, 2, Buildable Preservation Parcel "A" and Non-Buildable Bulk Parcel "B" is provided in accordance with a certified Landscape Plan on file with F 11-022
20. This plan complies with the requirements of Section 16.1200 of the Howard County Code for Forest Conservation by RETENTION of 11.34 acres of forest in existing easements # 2,4,5,7,8,9 and 10 and Non easement credit areas located on Lot 2 (F00-59) and Lot 6 (F01-51) Thaler Estates, 1.16 acres of reforestation in existing easements #1 and #3 Thaler Estates (F00-56) and 3.24 acres of reforestation in existing easement #6 Thaler Estates(F00-56).
21. The revised percolation certification plan for this lot was signed by the Health Officer on 10/26/2010.
22. Any changes to a private sewage area shall require a revised percolation certification plan.
23. The geothermal wells proposed for this lot shall be a closed loop system
24. The well for this lot must be drilled prior to building permit issuance.

PLAN VIEW

Plan View - 1" = 50'

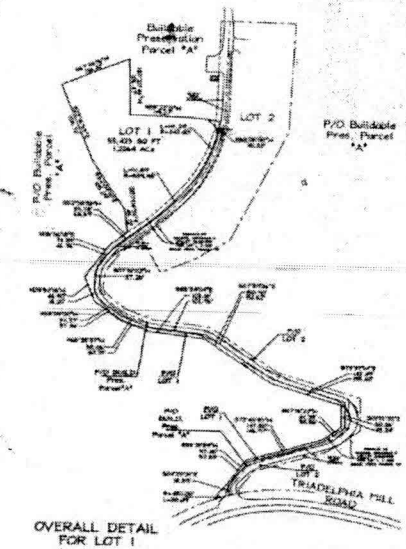




VICINITY MAP

1" = 2000'

THIS AREA DENOTES A PRIVATE DRAINAGE AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL DRAINAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ALLEVIATIONS TO THE PRIVATE DRAINAGE EASEMENT



OVERALL DETAIL FOR LOT 1

Plan View - 1" = 100'

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- LIMIT OF DISTURBANCE (LOD)
- SILT FENCE (SF)
- SUPER SILT FENCE (SSF)
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED GRADES (2' INTERVAL)
- EXISTING SEWAGE DISPOSAL EASEMENT ONSITE
- PROPOSED WELL
- EXISTING TREELINE
- TREE PROTECTION FENCING
- EROSION CONTROL MATTING (ECM)
- DRAINAGE FLOW ARROWS

EASEMENT LEGEND

- PRIVATE STORMWATER MANAGEMENT CREDIT EASEMENT
- EXISTING F00-59 FOREST CONSERVATION EASEMENT
- VARIABLE WIDTH PRIVATE ACCESS, DRAINAGE & UTILITY EASEMENT

SOILS LEGEND:

GaB - Glenelg Loam, 3 to 8 percent slopes
GgC - Glenelg Loam, 8 to 15 percent slopes
r' - 12" depth to bedrock, 87+ to water table, slight to severe limitations for sewage disposal fields and homes w/ basements depending on slopes, erosion hazard
GrB - Glenelg Silt Loam, 3 to 5 percent slopes

SEPTIC SYSTEM DESIGN DATA

1. 4" PVC @ Foundation Wall, Inv. Elev. = 517.0
2. 1000 Gal. Septic Tank (4 Bedroom)
   Inv. In Elev. = 515.3, Ground Over Tank @ 522.3
   Inv. Out Elev. = 514.0, Ground Over Tank @ 521.5
3. 1000 Gal. Pump Tank
   Inv. In Elev. = 513.5, Ground Over Tank @ 521.5
   Inv. Out Elev. = 512.7, Ground Over Tank @ 521.5
   Effluent Pump = Sand - Model 5000 HE Series
   HE Submersible Effluent Pump - Item # HE2005H
   2 Horsepower, 230 Volt, 1 Phase or Equal * (See Note 2 Below)
4. 2" Force Main (Material: 4 ft. cover)
5. Distribution box: (Provide two outlet openings minimum)
   * Ex. Ground over box: 528.50
   * Proj. Ground over box: 528.50
   * Invert Inv. 526.50

Notes: 1.) Trench design at time of installation based on site conditions
2.) * For Substitute Effluent Pumps: The septic installer shall provide Pump Specifications & Performance Curves at Time of Septic Permit Application.

NOTES:

1. PROPOSED GRADING SHALL BE LIMITED TO A MAXIMUM OF 30 ACRE OF DISTURBANCE AT A ONE TIME.
2. GRADING SHALL BE MINIMIZED ON MODERATE & STEEP SLOPES.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL MINIMIZES EROSION AND THE DEVELOPMENT WILL BE ACCOMPLISHED ACCORDING TO THE HOWARD SOIL CONSERVATION DISTRICT STANDARDS AND SPECIFICATIONS.

11/29/10
DATE

DEVELOPER'S CERTIFICATE

"I AM AWARE THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL WHO ARE ON THE CONSTRUCTION PROJECT WILL HAVE A APPROVED TRAINING PROGRAM IN A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM IN THE CONTROL OF SEDIMENT AND ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

11/29/10
DATE

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

HOWARD SOIL CONSERVATION DISTRICT — DATE

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
9218 Guilford Road, Suite 100 Columbia, Maryland 21046
PROJECT NAME: GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN

HEDGEROW FARM
LOT 1
PART OF A RESUBDIVISION OF LOT 1, THALER ESTATES, PLAT #14436
Triadelphia Mill Road - RR-DEO Zoning
Tax Map 24 Grid 20 Parcel 44
5th Election District Howard County, Maryland

Previous Submittals: F00-56, WP00-65, F01-51, WP06-58, F 07-44, ECP10-015, WP10-172, F 11-022

OWNER/DEVELOPER: Hedgerow Farm LLC, 10803 Lakeside Drive, Gaithersville, MD 20879-6326, (301) 352-9311

DESIGNED: BDB, EDS	SCALE: AS NOTED
DRAWN: EDS	SHEET: 1 of 3
CHECKED: BDB	JOB NO.: 09-029.2
DATE: 8/2010	FILE NO.: GP18-