Howard County Health Department

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

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 3/6/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562914

APPROVAL DATE: 08/31/2018 (to) **PERMIT: CONSTRUCTION** A

PROPERTY ADDRESS: 13571 Triadelphia Mill Road

SUBDIVISION: LOT: TAX ID:

CONTRACTOR: Classic Plumbing EMAIL:

CONTRACTOR ADDRESS: PHONE:

PROPERTY OWNER: Tony and Novella Weigand EMAIL: N/A

OWNER ADDRESS: 1207 Hoskins Terrace Apt 211 PHONE: 301-348-5401

SEPTIC TANK SIZE (GALLONS): ~~1250~~ 1500 TANK MANUFACTURER: BABYLON

PUMP MODEL: Gould PUMP SIZE WE03 PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: 106	INLET DEPTH: 4
	TRENCH WIDTH: 3	MAXIMUM BOTTOM DEPTH: 6
	MINIMUM SPACE BETWEEN TRENCHES: 10	EFFECTIVE AREA BEGINNING DEPTH: 4
LOCATION:	**PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**	
NOTES:	2 X 53' FT Trenches	

ISSUED BY: Hank Oswald ISSUE DATE: EXPIRATION DATE:

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

NOTE: 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

☑ *ELECTRICAL PERMIT ISSUED* E 1800243

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

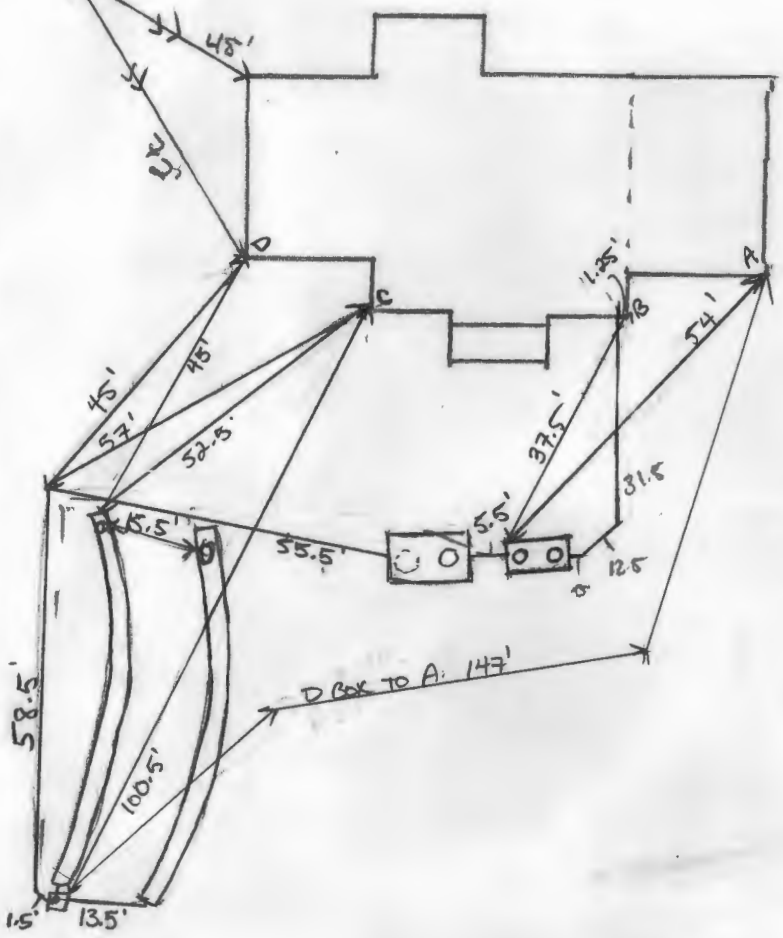
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

(WD) 140-94-4039

NOT TO SCALE



SCH 40 4" PVC
* SOLVENT WELDED

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	6'

NUMBER OF TRENCHES 2
TOTAL LENGTH 106'
ABSORPTION AREA 318 ft²
DISTRIBUTION BOX LEVEL YES
DISTRIBUTION BOX BAFFLE YES
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL DW1
MANUFACTURER Bubalon
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH 1.5' (+) - 1' (-)
BAFFLES YES
BAFFLE FILTER NO
MANHOLE LOC Front/Back
6" PORT LOC Inlet
WATERTIGHT TEST N/A
SLOTTED YES
DATE ON LID 2-28-2018

PUMP/SEPTIC TANK LEVEL
MANUFACTURER Bubalon
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH 2' (+) - 3.75' (-)
BAFFLES —
BAFFLE FILTER —
MANHOLE LOC FRONT/BACK
6" PORT LOC N/A
WATERTIGHT TEST —
SLOTTED N/A
DATE ON LID N/A

ROAD NAME TRIADELPHIA MILL ROAD

PRE-CONSTRUCTION:
3/26/2018 Met onsite w/ Contractor for layout - SDA NOT staked. Resched. for after SDA STAKED. (E) 4/9/18 onsite for layout again. Tank stakes marked. No SDA stakes still. surveyor notified in field via phone. Contour was shot in approx area of proposed trenches. Told contractor 'ok' to set tanks (Bubalon) but SDA must be staked before trenching (E-mail) JC
4/10/18 SDA Staked. Shot contour of 2 trenches. (lower trench 2' from upper trench. (E)
INSTALLATION: 4/10/18. Tanks set. Confirmed baffles. Commencing trench construction. (E) D Box moved to center Top SDA to conserve Area + access to repair systems. Stone was marginal. Quarry to be notified. (E) 4/11/2018 Trenches Complete. Force main to D Box, D Box, and Sewer line from house installed, leveled D Box. Quarry Reported Double washed Stone. Stone still had many fines. Reinspect Pump + Alarm. (E) 08/31/2018 PUMP ALARM IS ON HOUSE GFI CIRCUIT. ALL SEPTIC ELEMENTS CONFIRMED WORKING (E)

FINAL INSPECTOR [signature] DATE OF APPROVAL 08/31/2018

FT

Finksburg Dispatch 410-833-4400

Finksburg Sales 410-833-4400

Laurel Sand & Gravel, Inc. T/A

S. W. Barrick & Sons

Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX 410-833-4909

BILLING INQUIRIES 1-800-762-2294

TICKET #00417805

STATION FT

DATE 04/11/18 TIME 06:48:15

CUSTOMER CASH

JOB CLAPLU : CLASSIC PLUMBING

P.O. # PROJECT #:

13571 TRIDELPHIA MILL RD

GLENELG

TRUCK 471A LICENSE 3 AXLES

DRIVER: KRUG'S TRUCKING

ROB 301-748-5401

GROSS		SCALE A	70000 lb
TARE	IN	(STORED)	25800 lb
NET			44200 lb
NET			**22.10 t**

	Loads	Tons
DAILY	1	22.10
TOTAL	3	65.45

TIME IN 06:48:15 TIME OUT 06:48:15

MAT'L 0051 : WASHED #2 AASHTO 3

HAUL RATE $5.50/ton

HAUL ZONE L-10

MATERIAL CHARGE (@ $18.25/ton)	$403.33
HAUL CHARGE	$121.55
Fuel Surcharge	$0.00
6.00% SALES TAX	$24.20
TOTAL CHARGE	$549.08

WEIGHMASTER Cassidy Lindemann

RECEIVED BY

1. Deliveries of products of Finksburg Terminal (FT) in vehicles arranged for by FT are usually made by interstate common carriers or by independent contractor businessmen operating as intrastate nonregulated truckers. In either such case FT exercises no control over and does not assume responsibility for the transportation and delivery of the products covered by this ticket. FT will not be liable in any way for any accidents or damage to persons or to property or for loss of property or delay arising out of or occurring during the transportation and delivery and unloading of such products.

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3. Purchaser shall be responsible for providing promptly upon arrival a safe and practical location for the delivery and unloading of the product. FT shall not be responsible for any detention time charge or other cost or damage resulting from failure to provide promptly such safe and practical location.

SAFETY DATA SHEET (SDS) FOR LIMESTONE

SECTION I – PRODUCT IDENTIFICATION

MANUFACTURER: FINKSBURG TERMINAL
S.W. BARRICK & SONS
14504 GREENVIEW DRIVE, SUITE 210
LAUREL, MARYLAND 20708
INFORMATION TELEPHONE #: 301-953-7650
EMERGENCY TELEPHONE #: 301-953-7650

Product Chemical Name: Crushed Stone (Limestone)
Product Identification/Synonyms: Crushed Stone, Aggregate, Manufactured Sand

SECTION II – HAZARD IDENTIFICATION

Primary Routes of Entry: Skin contact, eye, Acute and Chronic inhalation, and ingestion.

Hazard Pictogram:

Signal Word: Danger

Acute Exposure effects to Product

Skin: Exposure to dusts may cause dry and irritate the skin.

Eyes: Exposure may cause eye irritation.

Inhalation: Inhalation can irritate nose, throat, and lungs, causing coughing, sneezing, and shortness of breath.

Ingestion: Do not ingest aggregates. Ingestion of small quantities is not expected to be harmful. If ingested in large quantities, it may cause intestinal distress.

SECTION III – PRODUCT AND COMPONENT DATA

CAS Registry Number	Ingredient Name Approx. Percentage	Exposure Limits ACGIH TLV (mg/m3)	Exposure Limits OSHA PEL(mg/m3)
	Limestone		
1317-65-3	100	10 (nuisance dust)	15 total (dust)
	Quartz (Crystalline Silica)		
14808-60-7	>1	.01 (respirable dust)	.01 (respirable dust)

SECTION IV – FIRST AID MEASURES

Skin Contact: Rinse the exposed area with cool water. Wash exposed area with mild liquid soap. Seek medical attention for a rash or continued irritation.

Eye Contact: Irrigate exposed eye(s) with clean water or saline solution for at least 15 minutes while holding the eye lid(s) open. Seek medical attention for abrasions, embedded particles, or persistent irritation.

Ingestion: If the victim is conscious, provide clean water to rinse the mouth. Provide large quantities of water for the victim to drink. Seek medical attention immediately. Do not attempt to administer water by mouth to an unconscious person.

Inhalation: Immediately move the person to fresh air. Dust should be cleared from the throat and nasal passages. Seek medical attention for discomfort or if irritation persists. Monitor vital signs and administer CPR if necessary.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: **Non-combustible**
Extinguishing Media: **Use extinguishing media for surrounding fire conditions**
Combustion Products: **Decomposes at 825° C**
General Hazard: **Avoid breathing dust**

Fire Fighting Procedures: **Limestone poses no fire related hazard. Use appropriate personal protective clothing and equipment for surrounding fire conditions.**

SECTION VI – ACCIDENTAL RELEASE MEASURES

Place in stable containers for disposal. Avoid procedures that generate dust. If dust is generated wear appropriate protective equipment as described in Section VIII.

SECTION VII – STORAGE AND HANDLING PRECAUTIONS

Reparable crystalline silica-containing dust may be generated during the processing, handling and storage. The personal protective measures in Section VII of this MSDS should be followed. Use methods that will minimize dust generation.

Do not stand on stockpiles of this material, as it may be unstable.

This product is not intended for abrasive blasting use.

Do not store near food or beverage.

SECTION VIII – PERSONAL PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Engineering Controls: Use exhaust, ventilation, or other effective suppression measures to maintain dust exposure levels below the established exposure limits.

Respiratory Protection: Respiratory protection is typically not required under normal conditions. If dust concentrations exceed OSHA/MSHA Personal Exposure Limits, wear appropriate NIOSH/MSHA-approved respiratory protection. Respirators should be properly fitted for maximum effectiveness.

Skin Protection: Long cuffless pants, long sleeve shirts, gauntlet-type gloves and appropriate boots should be used to prevent exposure. Dust exposed personal protective equipment should be cleaned after each use and exposed clothing should be laundered after each use.

Eye Protection: Safety glasses with side shields that comply with ANSI Standard Z87.1 should be worn as minimal protection when eye exposure to airborne particles exists. Dust goggles should be worn when excessive dust conditions exist or are anticipated.

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure (mm Hg):	N/A
Specific Gravity (H20=1):	2.6 – 2.8	Appearance & Odor:	Angular to round, gray
Vapor Density (Air=1):	N/A	Freezing Point:	None, Solid
Solubility in Water:	Insoluble	Evaporation Rate:	N/A
Physical State:	Solid	Odor:	None
PH in Water:	Neutral	Viscosity:	None, Solid

SECTION X – STABILITY and REACTIVITY

Stability: Product is Stable

Incompatibility: Aggregate dissolves in hydrofluoric acid, and may produce corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Decomposition: Carbon Dioxide
Hazardous Polymerization: None

SECTION XI – TOXICOLOGICAL INFORMATION

Effects of Chronic Exposure

Proper use of Limestone Aggregates for construction purposes is not believed to cause acute toxic effects. This product contains crystalline silica, which has been classified as a human carcinogen by IRAC and NPT.

Repeated overexposures to high levels of respirable crystalline silica (cristobalite, quartz, and tridymite) can cause silicosis, serious and fatal lung disease, scleroderma (thickening of skin, systemic lupus erythematosus, rheumatoid arthritis) and disease affecting the kidneys.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity: Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations.

Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION XIII – SPILL AND DISPOSAL PRACTICES

The cleanup of spilled material may cause dusty conditions.

The personal protective measures in Section VIII of this MSDS should be followed.

Wetting material will minimize dust generation. Materials should be disposed of according to all applicable federal, state, and local laws and regulations.

SECTION XIV – TRANSPORTATION

DOT Classification - None / Placare Requirement: None

SECTION XV – REGULATORY INFORMATION

Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

SECTION XVI – DATE OF PREPARATION and DISCLAIMER

Revision Summary: Revised October 12, 2015

The information in this MSDS is believed to be current and accurate. No warranty, expressed or implied, of merchantability, fitness or otherwise is made. Any party using this product should review all federal, state, or local laws and regulations prior to use. S. W. Barrick & Sons is not responsible for the condition, performance, handling, storage, or disposal of the aggregate after the buyer takes title by pickup at the plant or delivery to the buyer's job site by S. W. Barrick & Sons.

FT

Finksburg Dispatch 410-833-4400

Finksburg Sales 410-833-4400

Laurel Sand & Gravel, Inc. T/A

S. W. Barrick & Sons

Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX 410-833-4909

BILLING INQUIRIES 1-800-762-2294

TICKET #00417664

STATION FT

DATE 04/09/18 TIME 11:56:34

CUSTOMER CASH

JOB CLAPLU : CLASSIC PLUMBING

P.O. # PROJECT #:

15371 TRIDELPHIA MILL RD

GLENELG

ROB 301-748-5401

TRUCK 471A LICENSE 3 AXLES

DRIVER: KRUG'S TRUCKING

GROSS		SCALE A	69700 lb
TARE	IN	(STORED)	25800 lb
NET			43900 lb
NET			21.95 t

	Loads	Tons
DAILY	1	21.95
TOTAL	1	21.95

TIME IN 11:56:34 TIME OUT 11:56:34

MAT'L 0051 : WASHED #2 AASHTO 3

HAUL RATE $5.50/ton

HAUL ZONE L-10

MATERIAL CHARGE (@ $18.25/ton)	$400.59
HAUL CHARGE	$121.00
Fuel Surcharge	$0.00
6.00% SALES TAX	$24.04
TOTAL CHARGE	$545.63

WEIGHMASTER Cassidy Lindemann

RECEIVED BY _____

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LAUREL, MARYLAND 20708
INFORMATION TELEPHONE #: 301-953-7650
EMERGENCY TELEPHONE #: 301-953-7650

Product Chemical Name: Crushed Stone (Limestone)
Product Identification/Synonyms: Crushed Stone, Aggregate, Manufactured Sand

SECTION II – HAZARD IDENTIFICATION

Primary Routes of Entry: Skin contact, eye, Acute and Chronic inhalation, and ingestion.

Hazard Pictogram:

Signal Word: Danger

Acute Exposure effects to Product

Skin: Exposure to dusts may cause dry and irritate the skin.

Eyes: Exposure may cause eye irritation.

Inhalation: Inhalation can irritate nose, throat, and lungs, causing coughing, sneezing, and shortness of breath.

Ingestion: Do not ingest aggregates. Ingestion of small quantities is not expected to be harmful. If ingested in large quantities, it may cause intestinal distress.

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		Limestone	
1317-65-3	100	10 (nuisance dust)	15 total (dust)
		Quartz (Crystalline Silica)	
14808-60-7	>1	.01 (respirable dust)	.01 (respirable dust)

SECTION IV – FIRST AID MEASURES

Skin Contact: Rinse the exposed area with cool water. Wash exposed area with mild liquid soap. Seek medical attention for a rash or continued irritation.

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Inhalation: Immediately move the person to fresh air. Dust should be cleared from the throat and nasal passages. Seek medical attention for discomfort or if irritation persists. Monitor vital signs and administer CPR if necessary.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: Non-combustible
Extinguishing Media: Use extinguishing media for surrounding fire conditions
Combustion Products: Decomposes at 825° C
General Hazard: Avoid breathing dust

Fire Fighting Procedures: Limestone poses no fire related hazard. Use appropriate personal protective clothing and equipment for surrounding fire conditions.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Place in stable containers for disposal. Avoid procedures that generate dust. If dust is generated wear appropriate protective equipment as described in Section VIII.

SECTION VII – STORAGE AND HANDLING PRECAUTIONS

Reparable crystalline silica-containing dust may be generated during the processing, handling and storage. The personal protective measures in Section VII of this MSDS should be followed. Use methods that will minimize dust generation.

Do not stand on stockpiles of this material, as it may be unstable.

This product is not intended for abrasive blasting use.

Do not store near food or beverage.

SECTION VIII – PERSONAL PROTECTIVE EQUIPMENT AND CONTROL MEASURES

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SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure (mm Hg):	N/A
Specific Gravity (H20=1):	2.6 – 2.8	Appearance & Odor:	Angular to round, gray
Vapor Density (Air=1):	N/A	Freezing Point:	None, Solid
Solubility in Water:	Insoluble	Evaporation Rate:	N/A
Physical State:	Solid	Odor:	None
PH in Water:	Neutral	Viscosity:	None, Solid

SECTION X – STABILITY and REACTIVITY

Stability: Product is Stable

Incompatibility: Aggregate dissolves in hydrofluoric acid, and may produce corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Decomposition: Carbon Dioxide
Hazardous Polymerization: None

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SECTION XIV – TRANSPORTATION

DOT Classification - None / Placare Requirement: None

SECTION XV – REGULATORY INFORMATION

Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

SECTION XVI – DATE OF PREPARATION and DISCLAIMER

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T

rg Dispatch
-833-4400

Finksburg Sales
410-833-4400

Laurel Sand & Gravel, Inc. T/A

S. W. Barrick & Sons
Finksburg Terminal

FINKSBURG, MARYLAND

Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX
410-833-4909

BILLING INQUIRIES
1-800-762-2294

TICKET #00417673
STATION FT
DATE 04/09/18 TIME 13:37:19

CUSTOMER CASH

JOB CLAPLU : CLASSIC PLUMBING
P.O. # PROJECT #:
13571 TRIDELPHIA MILL RD
GLENELG

TRUCK 471A LICENSE 3 AXLES
DRIVER: KRUG'S TRUCKING

ROB 301-748-5401

GROSS	SCALE A	68600	lb
TARE	IN (STORED)	25800	lb
NET		42800	lb
NET		**21.40**	t

	Loads	Tons
DAILY	2	43.35
TOTAL	2	43.35

TIME IN 13:37:19 TIME OUT 13:37:19

MAT'L 0051 : WASHED #2 AASHTO 3
HAUL RATE $5.50/ton
HAUL ZONE L-10

MATERIAL CHARGE (@ $18.25/ton)	$390.55
HAUL CHARGE	$121.00
Fuel Surcharge	$0.00
6.00% SALES TAX	$23.43
TOTAL CHARGE	$534.98

WEIGHMASTER _____
Cassidy Lindemann

RECEIVED BY _____

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Ingredient Name			
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Quartz (Crystalline Silica)			
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Inhalation: Immediately move the person to fresh air. Dust should be cleared from the throat and nasal passages. Seek medical attention for discomfort or if irritation persists. Monitor vital signs and administer CPR if necessary.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: **Non-combustible**
Extinguishing Media: **Use extinguishing media for surrounding fire conditions**
Combustion Products: **Decomposes at 825° C**
General Hazard: **Avoid breathing dust**

Fire Fighting Procedures: **Limestone poses no fire related hazard. Use appropriate personal protective clothing and equipment for surrounding fire conditions.**

SECTION VI – ACCIDENTAL RELEASE MEASURES

Place in stable containers for disposal. Avoid procedures that generate dust. If dust is generated wear appropriate protective equipment as described in Section VIII.

SECTION VII – STORAGE AND HANDLING PRECAUTIONS

Reparable crystalline silica-containing dust may be generated during the processing, handling and storage. The personal protective measures in Section VII of this MSDS should be followed. Use methods that will minimize dust generation.

Do not stand on stockpiles of this material, as it may be unstable.

This product is not intended for abrasive blasting use.

Do not store near food or beverage.

SECTION VIII – PERSONAL PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Engineering Controls: Use exhaust, ventilation, or other effective suppression measures to maintain dust exposure levels below the established exposure limits.

Respiratory Protection: Respiratory protection is typically not required under normal conditions. If dust concentrations exceed OSHA/MSHA Personal Exposure Limits, wear appropriate NIOSH/MSHA-approved respiratory protection. Respirators should be properly fitted for maximum effectiveness.

Skin Protection: Long cuffless pants, long sleeve shirts, gauntlet-type gloves and appropriate boots should be used to prevent exposure. Dust exposed personal protective equipment should be cleaned after each use and exposed clothing should be laundered after each use.

Eye Protection: Safety glasses with side shields that comply with ANSI Standard Z87.1 should be worn as minimal protection when eye exposure to airborne particles exists. Dust goggles should be worn when excessive dust conditions exist or are anticipated.

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure (mm Hg):	N/A
Specific Gravity (H20=1):	2.6 – 2.8	Appearance & Odor:	Angular to round, gray
Vapor Density (Air=1):	N/A	Freezing Point:	None, Solid
Solubility in Water:	Insoluble	Evaporation Rate:	N/A
Physical State:	Solid	Odor:	None
PH in Water:	Neutral	Viscosity:	None, Solid

SECTION X – STABILITY and REACTIVITY

Stability: Product is Stable

Incompatibility: Aggregate dissolves in hydrofluoric acid, and m produce corrosive silicon tetrafluoride gas. Silicates react with powerf oxidizers such as fluorine, boron trifluoride, chlorine trifluoride manganese trifluoride, and oxygen difluoride.

Hazardous Decomposition: Carbon Dioxide
Hazardous Polymerization: None

SECTION XI – TOXICOLOGICAL INFORMATION

Effects of Chronic Exposure

Proper use of Limestone Aggregates for construction purposes is not believed to cause acute toxic effects. This product contains crystalline silica, which has been classified as a human carcinogen by IRAC and NPT.

Repeated overexposures to high levels of respirable crystalline silica (cristobalite, quartz, and tridymite) can cause silicosis, serious and fatal lung disease, scleroderma (thickening of skin, systemic lupus erythematosus, rheumatoid arthritis) and disease affecting the kidneys.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity: Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations.

Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION XIII – SPILL AND DISPOSAL PRACTICES

The cleanup of spilled material may cause dusty conditions.

The personal protective measures in Section VIII of this MSDS should be followed.

Wetting material will minimize dust generation. Materials should be disposed of according to all applicable federal, state, and local laws and regulations.

SECTION XIV – TRANSPORTATION

DOT Classification - None / Placare Requirement: None

SECTION XV – REGULATORY INFORMATION

Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

SECTION XVI – DATE OF PREPARATION and DISCLAIMER

Revision Summary: Revised October 12, 2015

The information in this MSDS is believed to be current and accurate. No warranty, expressed or implied, of merchantability, fitness or otherwise is made. Any party using this product should review all federal, state, or local laws and regulations prior to use. S. W. Barrick & Sons is not responsible for the condition, performance, handling, storage, or disposal of the aggregate after the buyer takes title by pickup at the plant or delivery to the buyer's job site by S. W. Barrick & Sons.

FT

Finksburg Dispatch 410-833-4400 | Finksburg Sales 410-833-4400

Laurel Sand & Gravel, Inc. T/A
S. W. Barrick & Sons
Finksburg Terminal
FINKSBURG, MARYLAND
Mailing Address: P.O. Box 1504 Laurel, Maryland 20725

INSPECTOR'S COPY

FAX 410-833-4909 | BILLING INQUIRIES 1-800-762-2294

TICKET #00417806
STATION FT
DATE 04/11/18 TIME 06:50:50

CUSTOMER CASH

JOB CLAPLU : CLASSIC PLUMBING
P.O. # PROJECT #:
13571 TRIDELPHIA MILL RD
GLENELG

TRUCK 448A LICENSE 3 AXLES
DRIVER: K.D. CAPLE

ROB 301-748-5401

GROSS	SCALE A	70020 lb	
TARE	IN (STORED)	24140 lb	
NET		45880 lb	
NET		**22.94 t**	

	Loads	Tons
DAILY	2	45.04
TOTAL	4	88.39

TIME IN 06:50:50 TIME OUT 06:50:50

MAT'L 0051 : WASHED #2 AASHTO 3
HAUL RATE $5.50/ton
HAUL ZONE L-10

MATERIAL CHARGE (@ $18.25/ton)	$418.66
HAUL CHARGE	$126.17
Fuel Surcharge	$0.00
6.00% SALES TAX	$25.12
TOTAL CHARGE	$569.95

WEIGHMASTER _____
Cassidy Lindemann

RECEIVED BY _____

liveries of products of Finksburg Terminal (FT) in vehicles arranged for by FT are usually made by interstate common carriers or by independent contractor businessmen ting as intrastate nonregulated truckers. In either such case FT exercises no control over and does not assume responsibility for the transportation and delivery of the products ed by this ticket. FT will not be liable in any way for any accidents or damage to persons or to property or for loss of property or delay arising out of or occurring during the portation and delivery and unloading of such products.

assumes no responsibility for and exercises no control over deliveries of products of FT in vehicles arranged for by others, and FT will not be liable in any way for any accidents or damage to ns or to property or for loss of property or delay arising out of or occurring during the transportation and delivery and unloading of such products.

rchaser shall be responsible for providing promptly upon arrival a safe and practical location for the delivery and unloading of the product. FT shall not be responsible for any detention time e or other cost or damage resulting from failure to provide promptly such safe and practical location.

SAFETY DATA SHEET (SDS) FOR LIMESTONE

SECTION I – PRODUCT IDENTIFICATION

FACTURER: FINKSBURG TERMINAL
S.W. BARRICK & SONS
14504 GREENVIEW DRIVE, SUITE 210
LAUREL, MARYLAND 20708
INFORMATION TELEPHONE #: 301-953-7650
EMERGENCY TELEPHONE #: 301-953-7650

ct Chemical Name: Crushed Stone (Limestone)
ct Identification/Synonyms: Crushed Stone, Aggregate, Manufactured Sand

SECTION II – HAZARD IDENTIFICATION

ry Routes of Entry: Skin contact, eye, Acute and Chronic inhalation, and ingestion.

rd Pictogram:

l Word: Danger

Exposure effects to Product

Exposure to dusts may cause dry and irritate the skin.

Exposure may cause eye irritation.

ation: Inhalation can irritate nose, throat, and lungs, causing coughing, sneezing, and shortness of breath.

stion: Do not ingest aggregates. Ingestion of small quantities is not expected to be harmful. If ingested in large quantities, it may cause intestinal distress.

SECTION III – PRODUCT AND COMPONENT DATA

CAS istry Number	Ingredient Name Approx. Percentage	Exposure Limits ACGIH TLV (mg/m3)	Exposure Limits OSHA PEL(mg/m3)
	Limestone		
317-65-3	100	10 (nuisance dust)	15 total (dust)
	Quartz (Crystalline Silica)		
808-60-7	>1	.01 (respirable dust)	.01 (respirable dust)

SECTION IV – FIRST AID MEASURES

n Contact: Rinse the exposed area with cool water. Wash exposed a with mild liquid soap. Seek medical attention for a rash or continued ation.

e Contact: Irrigate exposed eye(s) with clean water or saline solution at least 15 minutes while holding the eye lid(s) open. Seek medical ention for abrasions, embedded particles, or persistent irritation.

estion: If the victim is conscious, provide clean water to rinse the uth. Provide large quantities of water for the victim to drink. Seek dical attention immediately. Do not attempt to administer water by uth to an unconscious person.

alation: Immediately move the person to fresh air. Dust should be ared from the throat and nasal passages. Seek medical attention for comfort or if irritation persists. Monitor vital signs and administer CPR ecessary.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: Non-combustible
Extinguishing Media: Use extinguishing media for surrounding fire conditions
Combustion Products: Decomposes at 825° C
General Hazard: Avoid breathing dust

Fire Fighting Procedures: Limestone poses no fire related hazard. Use appropriate personal protective clothing and equipment for surrounding fire conditions.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Place in stable containers for disposal. Avoid procedures that generate dust. If dust is generated wear appropriate protective equipment as described in Section VIII.

SECTION VII – STORAGE AND HANDLING PRECAUTIONS

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SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure (mm Hg):	N/A
Specific Gravity (H20=1):	2.6 – 2.8	Appearance & Odor:	Angular to round, gray
Vapor Density (Air=1):	N/A	Freezing Point:	None, Solid
Solubility in Water:	Insoluble	Evaporation Rate:	N/A
Physical State:	Solid	Odor:	None
PH in Water:	Neutral	Viscosity:	None, Solid

SECTION X – STABILITY and REACTIVITY

Stability: Product is Stable

Incompatibility: Aggregate dissolves in hydrofluoric acid, and may produce corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Hazardous Decomposition: Carbon Dioxide
Hazardous Polymerization: None

SECTION XI – TOXICOLOGICAL INFORMATION

Effects of Chronic Exposure

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Wetting material will minimize dust generation. Materials should be disposed of according to all applicable federal, state, and local laws and regulations.

SECTION XIV – TRANSPORTATION

DOT Classification - None / Placare Requirement: None

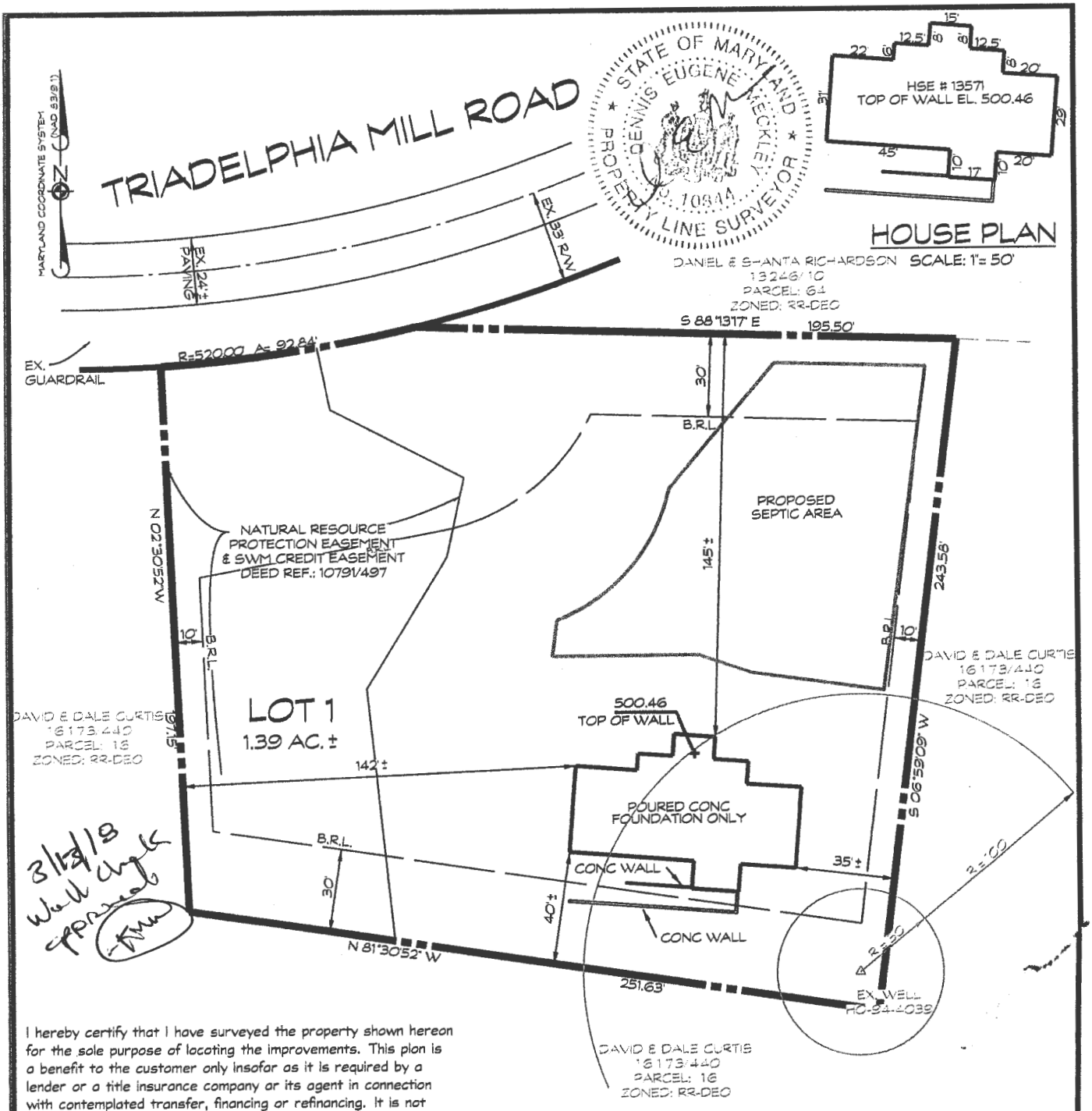
SECTION XV – REGULATORY INFORMATION

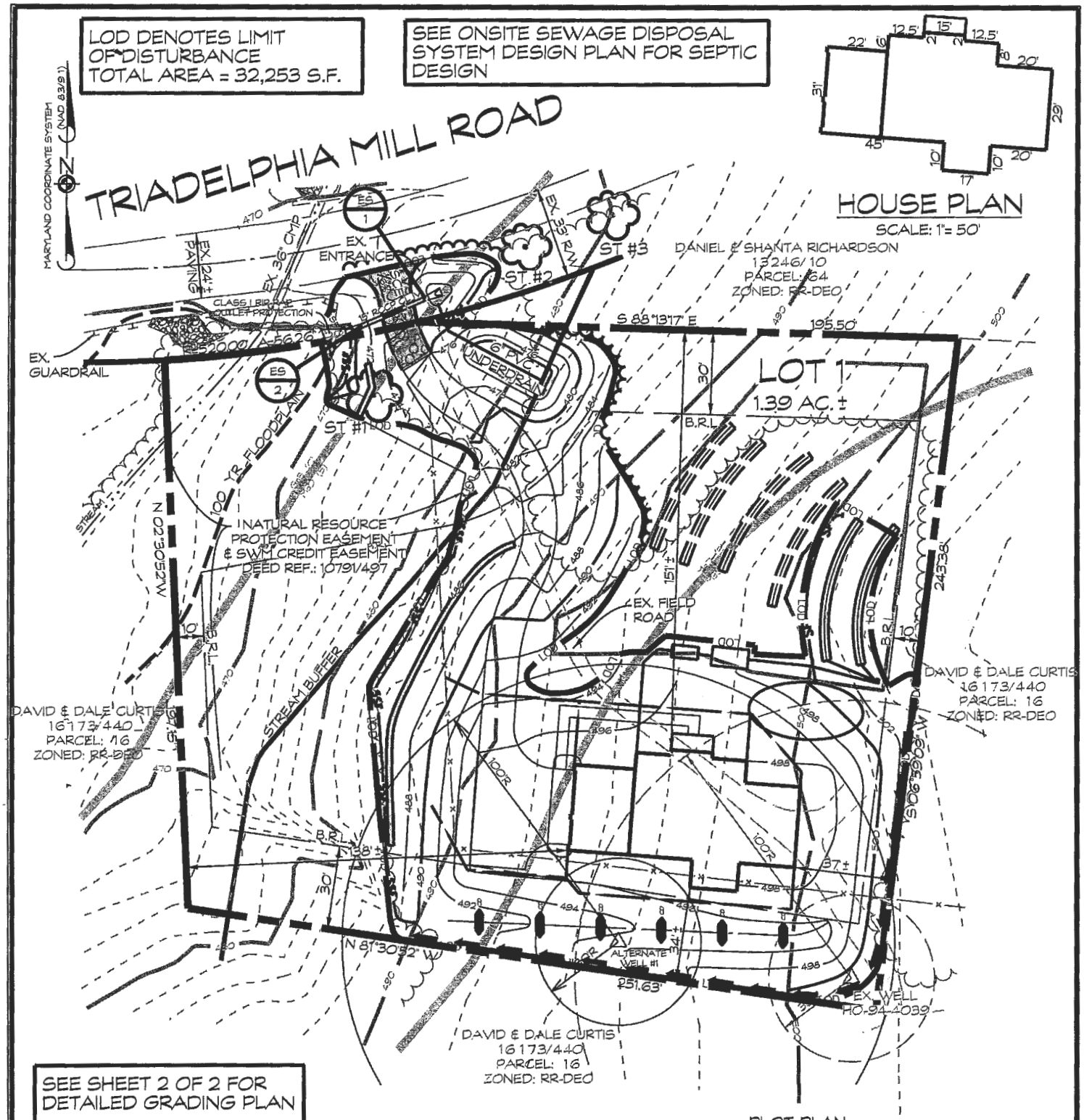
Limestone is not classified as a hazardous material by US DOT and is not regulated by the Transportation of Dangerous Goods (TDG) when shipped by any mode of transport.

SECTION XVI – DATE OF PREPARATION and DISCLAIMER

Revision Summary: Revised October 12, 2015

The information in this MSDS is believed to be current and accurate. No warranty, expressed or implied, of merchantability, fitness or otherwise is made. Any party using this product should review all federal, state, or local laws and regulations prior to use. S. W. Barrick & Sons is not responsible for the condition, performance, handling, storage, or disposal of the aggregate after the buyer takes title by pickup at the plant or delivery to the buyer's job site by S. W. Barrick & Sons.


TRIADELPHIA MILL ROAD
MARYLAND COORDINATE SYSTEM (NAD 83/91)
EX. PAVING 24'±
EX. 33' R/W
STATE OF MARYLAND
DENNIS EUGENE MECKLEY
PROPERTY LINE SURVEYOR
No. 10844
HSE # 13571
TOP OF WALL EL. 500.46
HOUSE PLAN
DANIEL & SHANTA RICHARDSON SCALE: 1"= 50'
13246/10
PARCEL: 64
ZONED: RR-DEO
S 88°13'17" E 195.50'
EX. GUARDRAIL
R=520.00 A=92.84'
30'
B.R.L.
PROPOSED SEPTIC AREA
145'±
243.58'
NATURAL RESOURCE PROTECTION EASEMENT & SWM CREDIT EASEMENT DEED REF.: 10791/497
N 02°36'52" W
10'
B.R.L.
LOT 1
1.39 AC.±
197.15'
DAVID & DALE CURTIS
16173/440
PARCEL: 16
ZONED: RR-DEO
500.46
TOP OF WALL
142'±
POURED CONC FOUNDATION ONLY
S 06°59'09" W
B.R.L.
30'
CONC WALL
35'±
40'±
CONC WALL
N 81°30'52" W
251.63'
EX. WELL
MD-94-4039
3/7/18
Well check
approved
I hereby certify that I have surveyed the property shown hereon for the sole purpose of locating the improvements. This plan is a benefit to the customer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. It is not to be relied upon for the establishment of boundary, easement or right-of-way lines for any reason, such as the location of fences, garages, buildings, or other existing or future improvements. Offsets of buildings to property lines are to the nearest foot (1') unless otherwise noted.
FOUNDATION CERTIFICATION
TAX ACCOUNT NO.: 05348528
CHARLES DORSEY PROPERTY
13571 TRIADELPHIA MILL ROAD
5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 218
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO
By: Dennis E. Meckley Date: 3/08/18
Dennis E. Meckley Property Line Surveyor No. 10844
License expires March 29, 2020
A licensed Maryland Surveyor either personally prepared this Foundation Certification, or was in responsible charge over its preparation and the surveying work reflected in it, in compliance with the Maryland Minimum Standards of Practice for Land Surveyors. (COMAR 09-13-06.06 AND .12)
CLSI Engineers • Surveyors Land Planning & Environmental Consultants www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791
DRAWN BY: JLW
DESIGN BY:
REVIEW BY: DEM
DATE: 11-27-17
SCALE: 1" = 50'
JOB NO: 2005004
SHEET: 1 OF 1
W-3/7/2018-3:32:14 PM-G:\2005\2005004\SURVEY\FOUNDATION\LOT_01.dgn--Default



PLOT PLAN
TAX ACCOUNT NO.: 05348528

CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 234
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

CARROLL LAND SERVICES, INC.

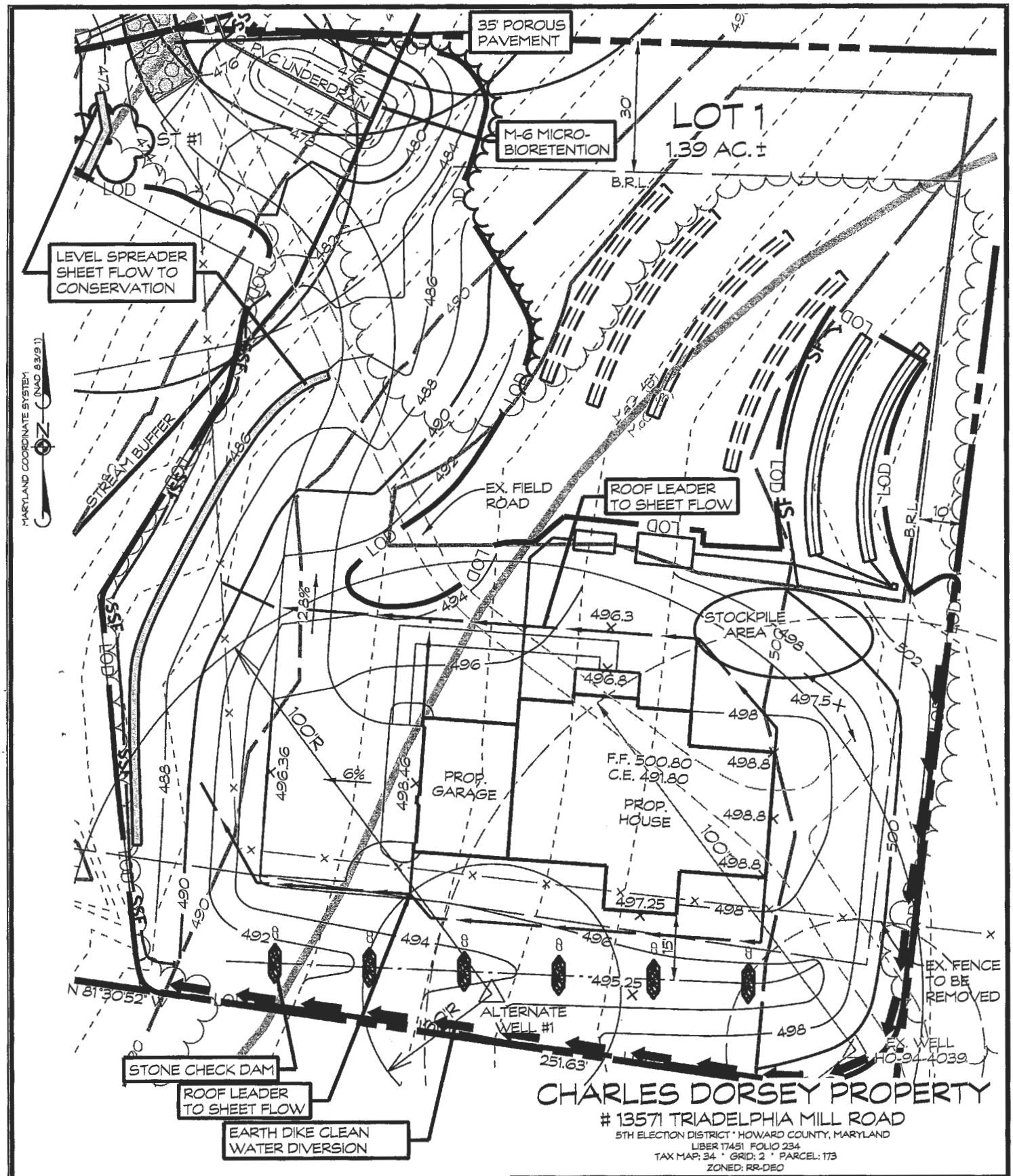
7-27-17
DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS	

Engineers • Surveyors
CLSI
Land Planning & Environmental Consultants
www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	BM
DESIGN BY:	JF
REVIEW BY:	JF
DATE:	7/26/17
SCALE:	1" = 50'
JOB NO:	2005004
SHEET:	1 OF 2



CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 234
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO

DATE	REVISIONS	

Engineers • Surveyors
CLSI
Land Planning & Environmental Consultants
www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY:	BM
DESIGN BY:	JF
REVIEW BY:	JF
DATE:	7/26/17
SCALE:	1" = 30'
JOB NO:	2005004
SHEET:	2 OF 2

W-7/27/2017-11:11:33 AM-G:\2005\2005004\SURVEY\PLOT PLAN\LOT 01_02.dgn--Default

Howard County Health Department

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
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

September 25, 2017

CLSI
439 East Main Street
Westminster, MD 21157
Attn: Linda Alexander

Sent via email to: *lalexander@clsimail.com*

RE: OSDS Plan
13571 Triadelphia Mill Road

Hi Linda:

The OSDS Plan for 13571 Triadelphia Road has been reviewed with the following comments:

1.) Show 2 alternate well sites or a 1500 sq. ft. well box.
2.) Show 10 foot separation between each trench (spacing is measured edge to edge).
3.) Unfinished basement shows full bath rough-in with potential for extra bedroom when finished. H.D. recommends sizing system to accommodate 5 bedrooms.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program

439 East Main Street
Westminster, MD 21157-5539

CLSI
Engineers • Surveyors
Land Planning & Environmental Consultants
www.clsi-civileng.com

(410) 848-1790 • (301) 662-1799
FAX (410) 848-1791

Transmit To:

Mr Hank Oswald
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045

Project Info:

CHARLES DORSEY PROPERTY
13571 Tridelphia Mill Road
Howard Co

Project No: 2005004B **Date:** Nov 15, 2017

We are Transmitting:

☑ Here with	☐ Originals	☐ Computer Media	☐ Shop Drawings	☑ Via Overnight	☐
☐ Our	☑ Prints	☐ Project Manuals	☐ Payment Cert.	☐ Express Mail	☐
☐ Your	☐ Copies	☐ Product Literature	☐ Change Order	☐ 1st Class Mail	☐

Sets	Type	Dwg No	Dated	Description
3	D Size Bond Copies		11/15/17	Onsite Sewage Disposal System Design Plan
1	Document		11/15/17	Response Letter

☐ As Requested	☐ For Your Use	☐ For Filing	☑ For Approval	☐
☐ As Required	☐ For Your Review	☐ For Bidding	☐ As Discussed	☐

Remarks:

If enclosures are not as noted, please notify us immediately.

Linda Alexander

Linda D. Alexander

Copy To

Oswald, Hank

From: Oswald, Hank
Sent: Monday, September 25, 2017 9:12 AM
To: lalexander@clsimail.com
Subject: OSDS_13571 Triadelphia Road
Attachments: OSDS Memo_13571 Triadelphia Mill Road.pdf

Hi Linda:

Good morning. Please see attachment for comments pertaining to OSDS Plan for 13571 Triadelphia Road.

Should you have any questions or concerns, please don't hesitate to contact me.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Howard County Health Department

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
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

May 2, 2017

CLSI
439 East Main Street
Westminster, MD 21157
Attn: Linda Alexander

Sent via email to: *lalexander@clsimail.com*

RE: OSDS Plan
13571 Triadelphia Mill Road

Hi Linda:

The OSDS Plan for 13571 Triadelphia Road has been reviewed with the following comments:

1.) The Sewage Disposal Area (SDA) does not match the most recent percolation certification plan on record (See attachment).
2.) The Alternate well site #1 is down gradient of the SDA within 45 degrees (See attachment). You could try creating a well box in the corner or a partial well box and 1 alternate well site. (See attachment)
3.) For a pump system leading to a d-box, the Total Head of 9.16 would intersect the WE03 line at 70gpm.

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program

Hi Hank,
I have a question regarding showing two alternative wells. First I have attached the perc certification plan for this lot which shows only one well location. Also this lot was issue a building permit under no. B07000307 at one point. This lot has existed since the 1881. This is why that we only showed the existing well and one replacement well. I am not sure that there is room for a second replacement well.

Regards,

Linda D. Alexander
Associate / Senior Project Manager
CLSI
439 East Main Street, Westminster, MD. 21157
lalexander@clsimail.com
direct: 410-871-4475
cell: 443-375-9903

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov]
Sent: Monday, September 25, 2017 9:12 AM
To: Linda D. Alexander <lalexander@clsimail.com>
Subject: OSDS_13571 Triadelphia Road

Hi Linda:

Good morning. Please see attachment for comments pertaining to OSDS Plan for 13571 Triadelphia Road.

Should you have any questions or concerns, please don't hesitate to contact me.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)

Oswald, Hank

From: Oswald, Hank
Sent: Friday, October 27, 2017 7:18 AM
To: 'Linda D. Alexander'
Subject: RE: OSDS_13571 Triadelphia Road
Attachments: Plan_13571 Triadelphia Mill Road_45 degree line.pdf

Hi Linda:

Good morning. It appears the lowest replacement well site is just below the 45 degree line. Please see attachment sent May 2017. You could try moving the lowest well site above the 45 degree line and maximize separation between wells.

Thanks,

Hank

From: Linda D. Alexander [mailto:lalexander@clsimail.com]
Sent: Thursday, October 26, 2017 6:16 PM
To: Oswald, Hank
Subject: RE: OSDS_13571 Triadelphia Road

Hank,
I have shown two alternate well locations. I have them at least 50 feet apart.
Would these work? I think that they meet your criteria

Linda D. Alexander
Associate / Senior Project Manager
CLSI
439 East Main Street, Westminster, MD. 21157
lalexander@clsimail.com
direct: 410-871-4475
cell: 443-375-9903

From: Oswald, Hank [mailto:hoswald@howardcountymd.gov]
Sent: Thursday, October 26, 2017 2:48 PM
To: Linda D. Alexander <lalexander@clsimail.com>
Subject: RE: OSDS_13571 Triadelphia Road

Hi Linda - If it's a lot of record before 1972, then you don't need 10k. You could cut off a portion of the SDA and move the house and septic components forward to fit a 3rd well site in between the two showing on this plan (preferably 50 feet apart). **The existing well only had a yield of 1 gpm so we definitely want to see a 3rd well site.** If the SDA is revised, then the perc cert will need to be revised.

Hank

From: Linda D. Alexander [mailto:lalexander@clsimail.com]
Sent: Wednesday, October 25, 2017 2:59 PM
To: Oswald, Hank
Subject: FW: OSDS_13571 Triadelphia Road

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, May 02, 2017 3:59 PM
To: lalexander@clsimail.com
Subject: OSDS Plan_13571 Triadelphia Mill Road
Attachments: OSDS Memo_13571 Triadelphia Mill Road.pdf; Plan_13571 Triadelphia Mill Road.pdf

Hi Linda:

Attached, you will find a memo regarding the review of the OSDS plan for 13571 Triadelphia Mill Road and the plan outlining the septic area per the perc cert plan. If you need a copy of the perc cert plan, please let me know. Please contact me with any questions.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
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Transmit To:

Mr Hank Oswald
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045

Project Info:

CHARLES DORSEY PROPERTY
13571 Tridelphia Mill Road
Howard Co

Project No: 2005004B **Date:** Jun 9, 2017

We are Transmitting:

☑ Here with	☐ Originals	☐ Computer Media	☐ Shop Drawings	☑ Via Overnight	☐
☐ Our	☑ Prints	☐ Project Manuals	☐ Payment Cert.	☐ Express Mail	☐
☐ Your	☐ Copies	☐ Product Literature	☐ Change Order	☐ 1st Class Mail	☐

Sets	Type	Dwg No	Dated	Description
3	D Size Bond Copies		06/08/2017	Onsite Sewage Disposal System Design Plans
1	Document		06/08/2017	Response Letter

☐ As Requested	☐ For Your Use	☐ For Filing	☑ For Approval	☐
☐ As Required	☐ For Your Review	☐ For Bidding	☐ As Discussed	☐

Remarks:

Linda D Alexander

If enclosures are not as noted, please notify us immediately.

Linda D. Alexander

Copy To

439 East Main Street
Westminster, MD 21157-5539

(410) 848-1790 • (301) 662-1799
FAX (410) 848-1791

Transmit To:

Mr Hank Oswald
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045

Project Info:

CHARLES DORSEY PROPERTY
13571 Tridelphia Mill Road
Howard Co

Project No: 2005004B **Date:** Apr 28, 2017

We are Transmitting:

☑ Here with	☐ Originals	☐ Computer Media	☐ Shop Drawings	☑ Via Messenger	☐
☐ Our	☑ Prints	☐ Project Manuals	☐ Payment Cert.	☐ Express Mail	☐
☐ Your	☐ Copies	☐ Product Literature	☐ Change Order	☐ 1st Class Mail	☐

Sets	Type	Dwg No	Dated	Description
3	D Size Bond Copies		04/28/2017	Onsite Sewage Disposal System Design Plan

☐ As Requested	☐ For Your Use	☐ For Filing	☐ For Approval	☐
☐ As Required	☑ For Your Review	☐ For Bidding	☐ As Discussed	☐

Remarks:

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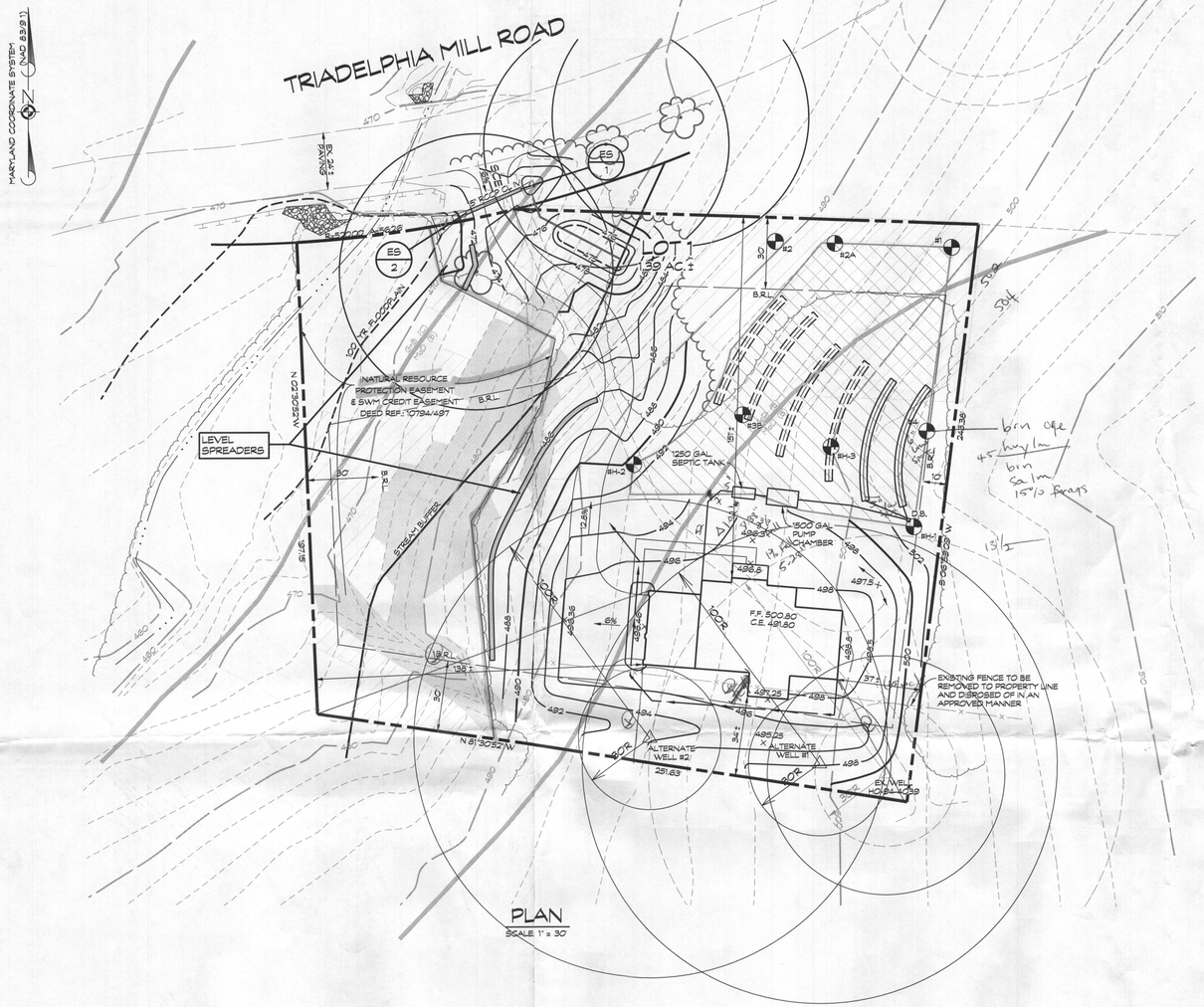
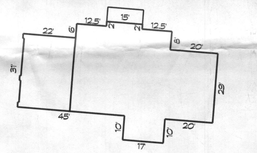
Linda D. Alexander

Copy To

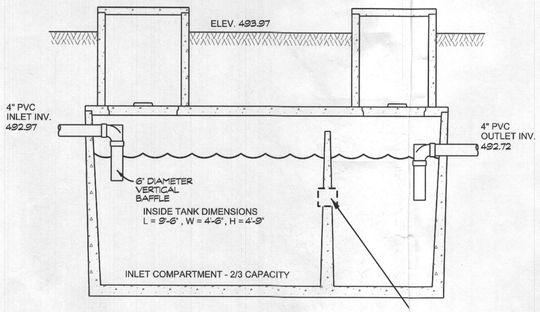
Linda D. Alexander



PLAN
SCALE: 1" = 30'



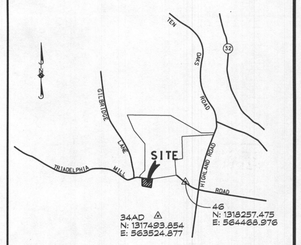
HOUSE PLAN
SCALE: 1"= 30'



NOTE:
THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6' ABOVE FINAL GRADE.

TOP SEAM
1250 GAL SEPTIC TANK
(NOT TO SCALE)

NOTE:
SLOT IS 2' HIGH BY 4' LONG IN CENTER OF LIQUID DEPTH



VICINITY MAP Scale: 1"=2000'

GENERAL NOTES

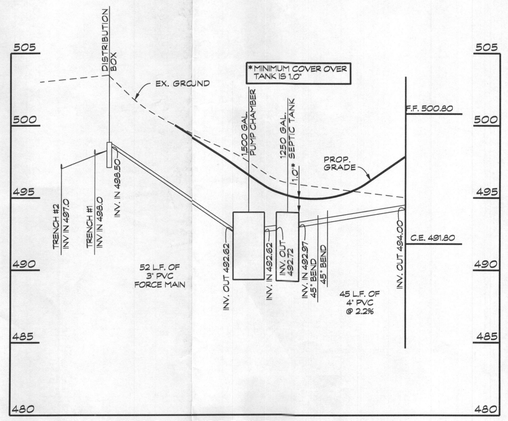
1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ROOFTOP DISCONNECT, SHEET FLOW, AND LEVEL SPREADER(S).

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2
DESIGN FLOW: 150 GALS x 4 BEDROOM = 600 GAL/DAY
600 GAL/DAY / 1.2 GAL /DAY/SQ. FT. = 500 SQ. FT.
500 SQ. FT. / 3 FT. = 166.6 USE 167 L.F. OF TRENCH
167 L.F. x 0.63 = 105.2 L.F. USE 106 L.F.
USE 2 - 53 L.F. OF TRENCH FOR INITIAL SYSTEM
USE 2 - 53 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

PLAN NOTES

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUSTBE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL (TAG # HO-94-4039) HAS BEEN FIELD LOCATED AND IS ACCUATELY SHOWN.
4. IF A BLDING PERMIT IS SUBMITTED ANY TIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A FIFTH BEDROOM PER HOWARD COUNTY CODE 3.80 (B).
5. TANK MEASUREMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MANUFACTURED BY MAYER BROS., ELKRIDGE, MD 410-796-1434
6. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



SEPTIC LINE PROFILE
SCALE: HORIZ. 1"= 30'
VERT. 1"= 5'

LEGEND

- EXISTING WELL LOCATION
- GnB / McD — SOIL LINES
- DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = 10,026 S.F.± FOR THE PURPOSE OF LOT 6 SINGLE FAMILY RESIDENCE
- DENOTES FLOW DIRECTION
- SF — DENOTES SILT FENCE
- SSF — DENOTES SUPER SILT FENCE
- LOD — DENOTES LIMIT OF DISTURBANCE
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE
- EXISTING TREELINE
- PROPOSED TREELINE
- NON-ROOFTOP DISCONNECT
- APPROVED PERCOLATION TESTS

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	504.0	500.00	498.0
2	501.0	497.0	495.0

Approved Septic System Plan
Howard County Health Department
Hank Dorsey — Signature
11/17/17 — Date

OWNER/DEVELOPER
TONY & NOVELLA WIEGAND
1207 HOSKINS TERRACE
APT. 211
BEL AIR, MD 21014

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 234
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO

Linda D. Alexander
Qualified Professional

Engineers • Surveyors
CLSI
Land Planning & Environmental Consultants
www.clsi-civileng.com
439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
6/8/2017	Address Health Dept comments	Designed By: JF
		Reviewed By: LDA
		Date: FEB., 2017
		Scale: AS SHOWN
		Job No.: 20050O4
		Sheet: 1 OF 2

County File No.

CAD Drawing File Name:
b-11/15/2017-3:00:02 PM-G:\2005\2005004\OSDS\SHEET\(01)SITE.dgn--Default

GOULDS PUMPS

Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:
- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump
- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ½-1½ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ½ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):
- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacture's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

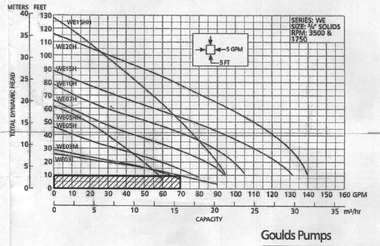
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38649

Goulds Pumps is ISO 9001 Registered.



www.goulds.com

Goulds Pumps

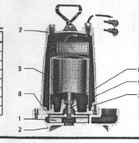
ITT Industries

Effective July, 2003
B3885

GOULDS PUMPS

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



Submersible Effluent Pump

MODEL 3885

WE Series

MODELS

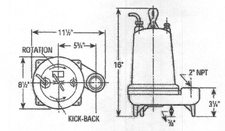
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	½	115	1	10.7	1750	¾"	56
WE0318L		208		6.8			
WE0312L		230		4.9			
WE0311M		115		10.7			
WE0318M		208		6.8			
WE0312M		230		4.9			
WE0511H	½	115	1	14.5	3500		60
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200	3	4.8			
WE0532H		230		3.3			
WE0534H		460		1.7			
WE0537H		575		1.4			
WE0511HH	½	115	1	14.5			
WE0518HH		208		8.1			
WE0512HH		230		7.3			
WE0538HH		200	3	4.9			
WE0532HH		230		3.6			
WE0534HH		460		1.8			
WE0537HH		575		1.5			
WE0718H	¾	208	1	11.0			70
WE0712H		230		10.0			
WE0738H		200	3	6.2			
WE0732H		230		5.4			
WE0734H		460		2.7			
WE0737H		575		2.2			
WE1018H	1	208	1	14.0			
WE1012H		230		12.5			
WE1038H		200	3	8.1			
WE1032H		230		7.0			
WE1034H		460		3.5			
WE1037H		575		2.8			
WE1518H	1½	208	1	17.5	3500		80
WE1512H		230		15.7			
WE1538H		200	3	10.6			
WE1532H		230		9.2			
WE1534H		460		4.6			
WE1537H		575		3.7			
WE1518HH		208	1	17.5			
WE1512HH		230		15.7			
WE1538HH		200	3	10.6			
WE1532HH		230		9.7			
WE1534HH		460		4.6			
WE1537HH		575		3.7			
WE2012H	2	230	1	18.0			83
WE2038H		200	3	12.0			
WE2032H		230		11.6			
WE2034H		460		5.8			
WE2037H		575		4.7			

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE15HH	WE10HH	WE20H
	HP	⅓	½	½	½	¾	1	1½	½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
Total Head Feet of Water	5	65	–	–	–	–	–	–	–	–
	10	70	63	78	–	–	–	58	–	–
	15	62	50	70	90	–	–	53	–	–
	20	27	35	60	83	98	123	49	90	136
	25	–	–	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	20	57	82	103	35	80	126
	40	–	–	–	45	74	96	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



PRINTED IN U.S.A.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Goulds Pumps

ITT Industries

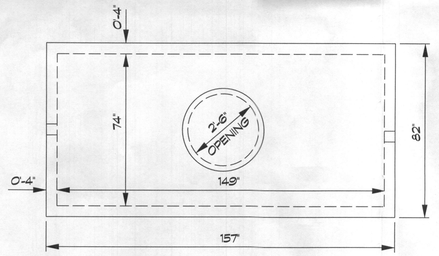
NOTE:
PUMP CHAMBER SIZE AND FLOATS BASED ON GOULDS WE SERIES SUBMERSIBLE PUMP. IF A PUMP SUBSTITUTION OCCURS, CHAMBER SIZE AND FLOATS WILL NEED TO BE RECALCULATED TO ENSURE THAT PUMP IS COVERED.

PUMP/SYSTEM DESIGN:

1. DESIGN FLOW: 600 GPD
2. DESIGN HEAD:
   STATIC HEAD: 498.50-489.90 = 8.6
   FRICTION HEAD:
   52 OF 3" PVC = 52
   52 X 1.08 / 100 = 0.56
   TOTAL HEAD: 8.6 + 0.56 = 9.16 @ 30 GPM

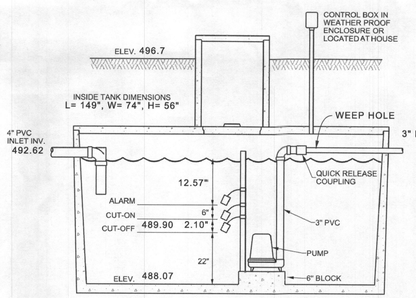
PUMP SYSTEM:

1. DOSE VOLUME:
   USE MINIMUM DOSE= 100 GAL.
2. PUMP CHAMBER CAPACITY
   ONE DAY STORAGE CAPACITY= 600 GPD
   + DOSE= 100 GPD
   TOTAL STORAGE= 700 GPD
3. PUMP ON TO PUMP OFF
   D= 100 X 231 / 11,026= 2.10"
4. HIGH WATER ALARM SWITCH TO PUMP CHAMBER
   R= 600 X 231 / 11,026= 12.57"



SPECIFICATIONS

- Tank measurements and elevations are based on pump chambers as manufactured by Babylon Vault Co, New Windsor, Maryland (410) 848-0393
- All piping to be schedule 40 PVC of sizes shown.
- A submersible pump to remove 30.00 GPM against 9.16 TDH to be provided. Pump to be a Goulds Model 3885-WE-03L, or equal.
- Alarm to be located at the house on circuit separate from the pump.



1500 GAL. PUMP CHAMBER

NOT TO SCALE

PUMP CHAMER NOTES & DETAILS

CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 234
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO

Linda D. Alexander
Qualified Professional

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439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
6/8/17	Address Health Dept comments	Designed By: LDA
		Reviewed By: LDA
		Date: FEB., 2017
		Scale: AS SHOWN
		Job No.: 2005004
		Sheet: 2 OF 2

County File No.

CAD Drawing File Name:

b-11/15/2017-3:00:59 PM-G:\2005\2005004\OSDS\SHEET\02JPUMP.DGN--Default

MARYLAND COORDINATE SYSTEM (NAD 83)

TRIADELPHIA

LOT 1
1.39 AC.±

EX. 24'± PAVING

15' RCCP CL IV

LOD

ES 1/

ES 2/

100 YR FLOODPLAIN

NATURAL RESOURCE PROTECTION EASEMENT & SWM CREDIT EASEMENT DEED REF.: 10794/497

LEVEL SPREADERS

STREAM BUFFER

B.R.L.

30'

#1 #2 #2A #3A #3B #H-1 #H-2 #H-3

1250 GAL. SEPTIC TANK

1500 GAL PUMP CHAMBER

F.F. 500.80
C.E. 491.80

ALTERNATE WELL #1

EX. WELL WO-94-4039

EXISTING FENCE TO BE REMOVED TO PROPERTY LINE AND DISPOSED OF IN AN APPROVED MANNER

N 23°25'W 197.15'

N 81°50'52" W 251.63'

S 06°59'00" W 243.38'

ntly compacted to
:h a manner
nal soil.

:sulting from
prevent the

a frozen or muddy
that may
paration.

the full amounts of lime
may be applied as

r sites having
nendments and for
the following

person or persons
:) by the Maryland

en, 1.5 percent
to 8.0. If
constituents must

00 square feet.

ilizer applied at the
plication rate.

RCH

TAIL

30'

TION DISTRICT
'ES

OT SUBJECT TO IMMEDIATE
NT LONGLIVED VEGETATIVE

IREE INCHES OF SOIL BY RAKING,
FORE SEEDING, IF NOT

COMMENDATIONS, USE ONE OF

ES DOLOMITIC LIMESTONE
ACRE 10-10-10 FERTILIZER
HARROW OR DISK INTO
EEDING, APPLY 400
ZER (9 LBS./1000 SQ. FT.)

RE DOLOMITIC LIMESTONE
ACRE 10-10-10 FERTILIZER
HARROW OR DISK INTO

OUGH APRIL 30, AND AUGUST
S PER ACRE (1.4 LBS./1000 SQ.

SIGHT DISTANCE- 734'

SUPER SILT FENCE

RYLEA HOMES, INC.
P.O. BOX 68
GLENWOOD MD 21738-0068

NOTE: ANY CHANGES T
PRIVATE SEWAGE EAS
SHALL REQUIRE A RRE
PERCOLATION CERTIF

DETAIL 33 - SUPER SIL

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

10' MA

GROUND SURFACE

FLOW

2 1/2" DIAMETER GALVANIZED OR ALUMINUM POSTS

CHAIN LIN
WITH 1 LA
FILTER C

2 1/2" DIA
ALUMINUM

CHAIN LINK FENCING

FILTER CLOTH

FLOW

EMBED FILTER CLOTH 8" MINIMUM INTO GROUND

* IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42"

CONSTRUCTION SPECIFIC

FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN
LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAI
FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABR
POSTS.

1. THE POLES DO NOT NEED TO SET IN CONCRETE

2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY T
THE LOWER TENSION WIRE, BRACE AND TRUSS RODS,
REQUIRED EXCEPT ON THE ENDS OF THE FENCE.

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO
EVERY 24" AT THE TOP AND MID SECTION.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EAC
BY 6" AND FOLDED.

6. MAINTENANCE SHALL BE PERFORMED AS NEEDED
DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES

7. FILTER CLOTH SHALL BE FASTENED SECURELY TO
STAPLES AT TOP AND MID SECTION AND SHALL MEE
GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)
TENSILE MODULUS	20 LBS/IN (MIN.)
FLOW RATE	0.3 GAL/FT²/MINUTE (M
FILTERING EFFICIENCY	75% (MIN.)

DESIGN CI

SLOPE	SLOPE STEEPNESS	SL (M
0 - 10%	0 - 10:1	
10 - 20%	10:1 - 5:1	
20 - 33%	5:1 - 3:1	
33 - 50%	3:1 - 2:1	
50%+	2:1+	

NOTE:
PROPOSED SEPTIC AREA
EASEMENT LOST= 420 S.F.±

PARCEL 173
60,392 S.F.
1.3864 AC.

PROPOSED SEPTIC AREA

#1 #2 #2A #3A #3B #H-1 #H-2 #H-3

DISTRIBUTION BOX

TIMBER CHECK DAM (TYP.)

4" HDPE

MOUNTABLE BERM

EX. GUARD RAIL

S.L.F. CL I RIP-RAP

EX. BRDWALL

100 YR FLOOD PLAIN

NATURAL RESOURCE PROTECTION EASEMENT & SWM CREDIT EASEMENT

L.O.D.

DRY SWALE

SEQUENTIAL SHEET

SIDEWALK

PROPOSED GUARDRAIL

LEVEL SPREADER

EJECTOR PUMP

GAR 499.33

FF 500.66
CE 490.66

H.S. EL. 492.0

S.T.

EXISTING FENCE TO BE REMOVED TO PROPERTY LINE AND DISPOSED OF IN AN APPROVED MANNER

EX. WELL (HO-94+4039)

PARCEL 16
PROPERTY OF
THOMAS & BETTY JEAN CURTUS
LIBER 1050 FOLIO 119
(UNDEVELOPED)

S 88°13'17" E 195.50'

N 02°30'52" W 197.15'

N 81°30'52" W 251.63'

N 06°59'08" E 243.38'

E 1317000
N 564360

Approved Septic System Plan
Howard County Health Department
C. Truing 4/18/07
Signature Date

HOUSE GRADING & SEPTIC DESIGN LAYOUT

SCALE- 1" = 30'

NOTE: TOTAL PROPOSED IMPERVIOUS

GOULDS PUMPS

Submersible Effluent Pump

MODEL 3885

WE Series

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ Class B insulation on ½-1½ HP models.

■ Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.
- SJTOW or STOW severe duty oil and water resistant power cords.
- ½ and ½ HP models have NEMA three prong grounding plugs.
- ¾ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

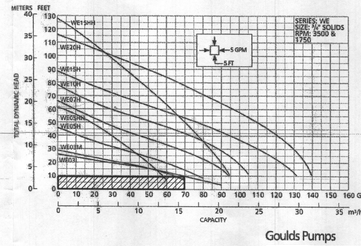
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38649

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

ITT Industries

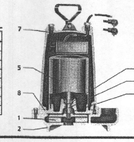
www.goulds.com

Effective July, 2003
B3885

GOULDS PUMPS

COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



Submersible Effluent Pump

MODEL 3885

WE Series

MODELS

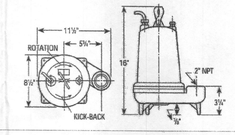
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)
WE0311L	½	115	1	10.7	1750	¾"	56
WE0318L		208		6.8			
WE0312L		230		4.9			
WE0311M		115		10.7			
WE0318M		208		6.8			
WE0312M		230		4.9			
WE0511H	½	115	1	14.5	3500		60
WE0518H		208		8.1			
WE0512H		230		7.3			
WE0538H		200	3	4.9			
WE0532H		230		3.3			
WE0534H		460		1.7			
WE0537H		575		1.4			
WE0511HH	½	115	1	14.5			
WE0518HH		208		8.1			
WE0512HH		230		7.3			
WE0538HH		200	3	4.9			
WE0532HH		230		3.6			
WE0534HH		460		1.8			
WE0537HH		575		1.5			
WE0718H	¾	208	1	11.0			70
WE0712H		230		10.0			
WE0738H		200	3	6.2			
WE0732H		230		5.4			
WE0734H		460		2.7			
WE0737H		575		2.2			
WE1018H	1	208	1	14.0			
WE1012H		230		12.5	3500		
WE1038H		200	3	8.1			
WE1032H		230		7.6			
WE1034H		460		3.5			
WE1037H		575		2.8			
WE1518H	1½	208	1	17.5			80
WE1512H		230		15.7			
WE1538H		200	3	10.6			
WE1532H		230		9.2			
WE1534H		460		4.6			
WE1537H		575		3.7			
WE1518HH	1½	208	1	17.5			
WE1512HH		230		15.7			
WE1538HH		200	3	10.6			
WE1532HH		230		9.2			
WE1534HH		460		4.6			
WE1537HH		575		3.7			
WE2012H	2	230	1	18.0			83
WE2038H		200	3	13.0			
WE2032H		230		11.6			
WE2034H		460		5.8			
WE2037H		575		4.7			

PERFORMANCE RATINGS (gallons per minute)

Order No.		WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE20HH	WE15HH	WE20HH
	HP	⅓	⅓	½	½	¾	1	1½	½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
Total Head Feet of Water	5	66	–	–	–	–	–	–	–	–
	10	70	63	78	–	–	–	58	–	–
	15	52	50	70	90	–	–	53	–	–
	20	27	35	60	83	98	123	49	90	136
	25	–	–	48	76	94	117	45	87	133
	30	–	–	35	67	88	110	40	83	130
	35	–	–	20	57	82	103	35	80	126
	40	–	–	–	45	74	96	30	77	121
	45	–	–	–	35	64	86	25	74	116
	50	–	–	–	25	53	77	–	70	110
	55	–	–	–	–	40	67	–	66	103
	60	–	–	–	–	30	56	–	63	96
	65	–	–	–	–	20	45	–	58	89
	70	–	–	–	–	–	35	–	55	81
	75	–	–	–	–	–	25	–	51	74
	80	–	–	–	–	–	–	–	47	66
	90	–	–	–	–	–	–	–	37	49
	100	–	–	–	–	–	–	–	28	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Goulds Pumps

ITT Industries

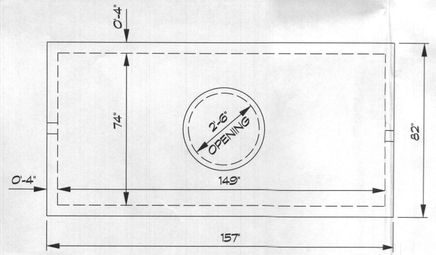
NOTE:
PUMP CHAMBER SIZE AND FLOATS BASED ON GOULDS WE SERIES SUBMERSIBLE PUMP. IF A PUMP SUBSTITUTION OCCURS, CHAMBER SIZE AND FLOATS WILL NEED TO BE RECALCULATED TO ENSURE THAT PUMP IS COVERED.

PUMP/SYSTEM DESIGN:

1. DESIGN FLOW: 600 GPD
2. DESIGN HEAD:
   STATIC HEAD: 498.50-489.90 = 8.6
   FRICTION HEAD:
   52 OF 3" PVC = 52
   52 X 1.08 / 100 = 0.56
   TOTAL HEAD: 8.6 + 0.56 = 9.16 @ 30 GPM

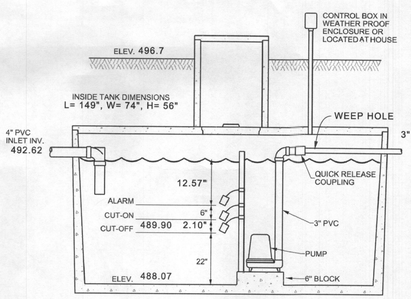
PUMP SYSTEM:

1. DOSE VOLUME:
   USE MINIMUM DOSE= 100 GAL.
2. PUMP CHAMBER CAPACITY
   ONE DAY STORAGE CAPACITY= 600 GPD
   + DOSE= 100 GPD
   TOTAL STORAGE= 700 GPD
3. PUMP ON TO PUMP OFF
   D= 100 X 231/11,026= 2.10"
4. HIGH WATER ALARM SWITCH TO PUMP CHAMBER
   R= 600 X 231/11,026= 12.57"



SPECIFICATIONS

- Tank measurements and elevations are based on pump chambers as manufactured by Babylon Vault Co, New Windsor, Maryland (410) 848-0393
- All piping to be schedule 40 PVC of sizes shown.
- A submersible pump to remove 30.00 GPM against 9.16 TDH to be provided. Pump to be a Goulds Model 3885-WE-03L, or equal.
- Alarm to be located at the house on circuit separate from the pump.



1500 GAL. PUMP CHAMBER

NOT TO SCALE

PUMP CHAMER NOTES & DETAILS

CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
LIBER 17451 FOLIO 234
TAX MAP: 34 * GRID: 2 * PARCEL: 173
ZONED: RR-DEO

Linda D. Alexander
Qualified Professional

Engineers • Surveyors
CLSI
Land Planning & Environmental Consultants
www.clsi-civileng.com

439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
6/8/17	Address Health Dept comments	Designed By: LDA
		Reviewed By: LDA
		Date: FEB., 2017
		Scale: AS SHOWN
		Job No.: 2005004
		Sheet: 2 OF 2

County File No.

CAD Drawing File Name:

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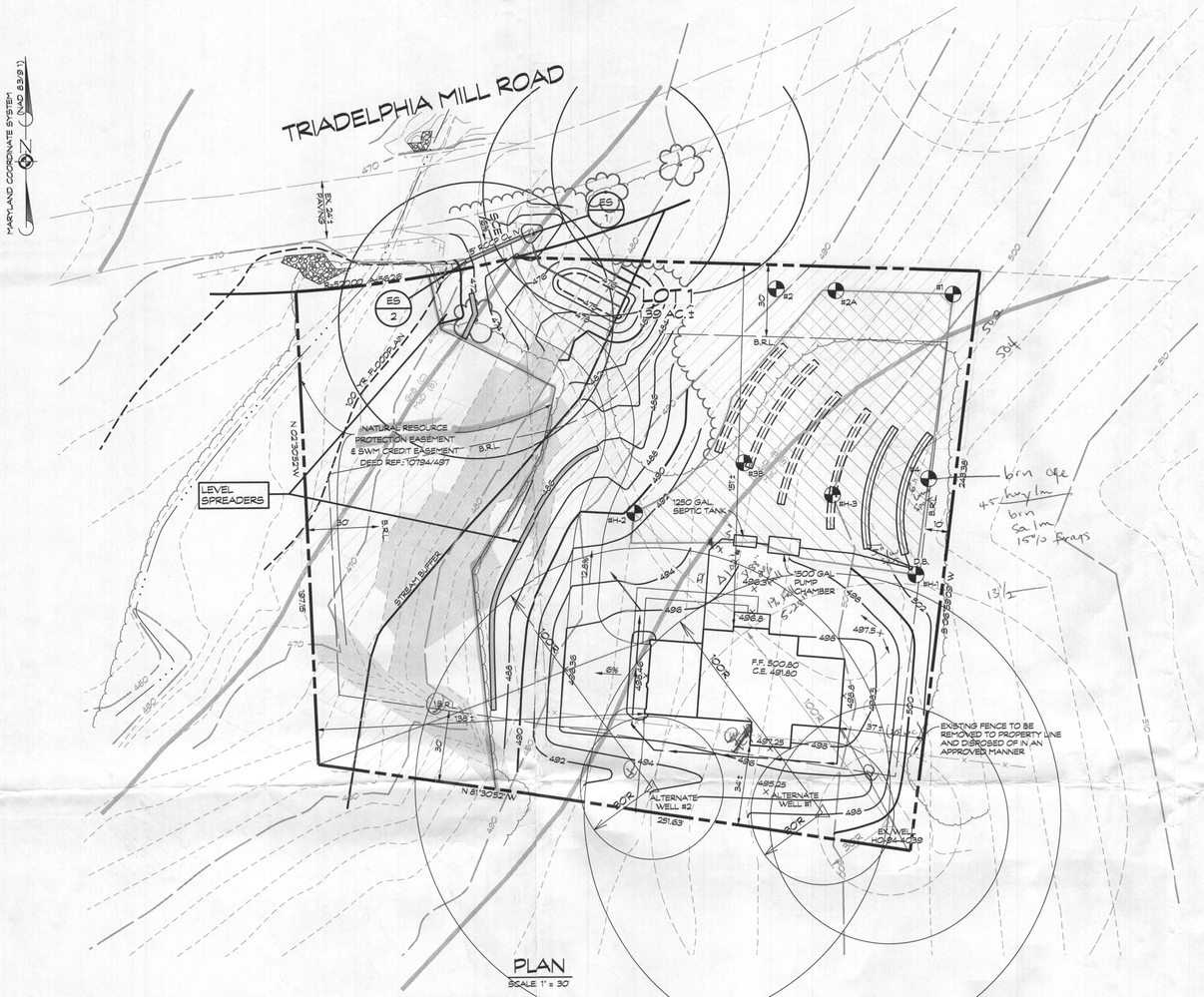
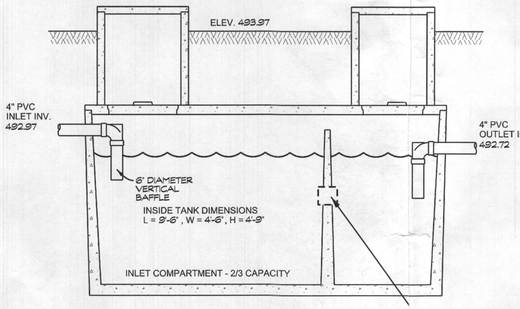


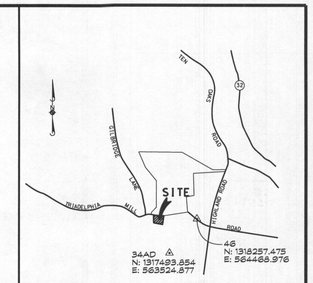
PLAN
SCALE: 1" = 30'



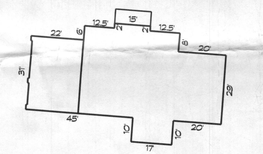
NOTE:
THE SEPTIC TANK RISERS TO TERMINATE AT LEAST 6' ABOVE FINAL GRADE.

TOP SEAM
1250 GAL SEPTIC TANK
(NOT TO SCALE)

NOTE:
SLOT IS 2' HIGH BY 4' LONG IN CENTER OF LIQUID DEPTH



VICINITY MAP Scale: 1"= 2000'



HOUSE PLAN
SCALE: 1"= 30'

GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY ROOFTOP DISCONNECT, SHEET FLOW, AND LEVEL SPREADERS.

SEPTIC SYSTEM TRENCH DESIGN:

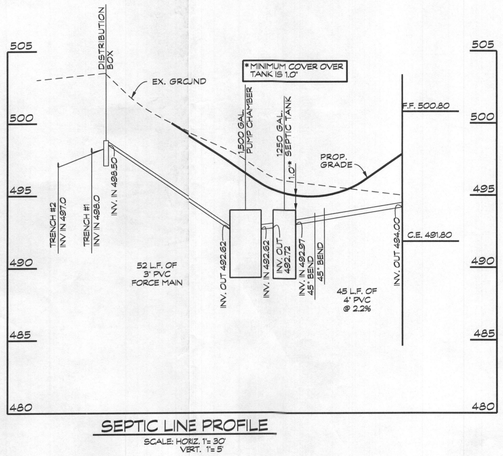
PROPOSED NUMBER OF BEDROOMS = 4
APPLICATION RATE = 1.2
DESIGN FLOW: 150 GALS x 4 BEDROOM = 600 GAL/DAY
600 GAL/DAY / 1.2 GAL /DAY/SQ. FT. = 500 SQ. FT.
500 SQ. FT. / 3 FT. = 166.6 USE 167 L.F. OF TRENCH
167 L.F. x 0.83 = 138.2 L.F. USE 105 L.F. USE 2 - 53 L.F. OF TRENCH FOR INTIAL SYSTEM
USE 2 - 53 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

PLAN NOTES

1. ANY GANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUSTE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL (TAG # HO-94-4039) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. IF A BLDING PERMIT IS SUBMITTED ANY TIME IN THE FUTURE, A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED TO FINISH THE AREA CURRENTLY IDENTIFIED AS THE BASEMENT. AT THAT TIME A SEPTIC SYSTEM UPGRADE WILL BE REQUIRED AS FINISHING THE BASEMENT COULD POSSIBLY CREATE A FIFTH BEDROOM PER HOWARD COUNTY CODE 3.801(B).
5. TANK EASEMENTS AND ELEVATIONS ARE BASED ON SEPTIC TANKS AS MAUFACTURED BY MAYER BROS., ELKRIDGE, MD 410-796-1434
6. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	504.0	500.00	498.0
2	501.0	497.0	495.0



SEPTIC LINE PROFILE
SCALE: HORIZ. 1"= 30'
VERT. 1"= 5'

LEGEND

- EXISTING WELL LOCATION
- GrB / McD — SOIL LINES
- DENOTES - TOTAL PROPOSED SEPTIC RESERVE EASEMENT AREA = 10,026 S.F.± FOR THE PURPOSE OF LOT 6 SINGLE FAMILY RESIDENCE
- DENOTES FLOW DIRECTION
- SF — DENOTES SILT FENCE
- SSF — DENOTES SUPER SILT FENCE
- LOD — DENOTES LIMIT OF DISTURBANCE
- S.C.E. — STABILIZED CONSTRUCTION ENTRANCE
- EXISTING TREELINE
- PROPOSED TREELINE
- NON-ROOFTOP DISCONNECT
- APPROVED PERCOLATION TESTS

Approved Septic System Plan
Howard County Health Department
Signature 11/17/17 Date

OWNER/DEVELOPER
TONY & NOVELLA WIEGAND
1207 HOSKINS TERRACE
APT. 211
BEL AIR, MD 21014

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD

5TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND
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TAX MAP: 34 * GRID: 2 * PARCEL: 173
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Date	Revisions	
6/8/2017	Address Health Dept comments	Drawn By: BM
		Designed By: JF
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		Date: FEB., 2017
		Scale: AS SHOWN
		Job No.: 2005004
		Sheet: 1 OF 2

County File No.

CAD Drawing File Name:
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