

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

UPGRADE?

RECEIPT DATE: 3-23-23 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 574053

APPROVAL DATE: 4/12/23 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 6576 Prestwick Drive

SUBDIVISION: Green Fields LOT: 19 TAX ID: 05-399211

CONTRACTOR: Hatfields Equipment EMAIL: Ken@hatfieldsequipment.com

CONTRACTOR ADDRESS: P.O. Box 517 Annapolis Junction, MD 20701 PHONE: 301-490-4289

PROPERTY OWNER: James Fraser & Jessica O'Kane EMAIL: _____

OWNER ADDRESS: 2605 Brown Alder Court, Odenton, MD 21113 PHONE: _____

SEPTIC TANK SIZE (GALLONS): ? TANK MANUFACTURER: ?

PUMP MODEL: Existing Septic Tank PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: 0.8

| | | |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>208</u> | INLET DEPTH: <u>2.5</u> |
| | TRENCH WIDTH: <u>3</u> | MAXIMUM BOTTOM DEPTH: <u>8</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: <u>10</u> | EFFECTIVE AREA BEGINNING DEPTH: <u>7</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | |
| NOTES: | Must sleeve effluent line where it crosses ingress easement. Easement must be staked prior to layout SDA & tank location must be fenced after installation prior to approval of permit. <u>Trenches can be 53'(x4)</u> | |

ISSUED BY: Z. Silvest ISSUE DATE: 3-23-23 EXPIRATION DATE: 3-23-24

- 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 N/A
- 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.**

NOT TO SCALE

See separate
Sheet for
Asbuilt

ROAD NAME

TRENCH/DRAINFIELD DATA

| WIDTH | INLET | BOTTOM |
|-------------------------|-------|----------------------|
| 3' | 2.5' | 8' |
| NUMBER OF TRENCHES | | 4 |
| TOTAL LENGTH | | 213' |
| ABSORPTION AREA | | 639 sq ft + sidewall |
| DISTRIBUTION BOX LEVEL | | yes |
| DISTRIBUTION BOX BAFFLE | | yes |
| DISTRIBUTION BOX PORT | | yes |

SEPTIC TANK DATA

~~EXISTING~~

SEPTIC TANK 1 LEVEL _____
 MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

PUMP/SEPTIC TANK LEVEL _____
 MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

PRE-CONSTRUCTION:

4/11/23 - laid out 4 trenches @ 53' each, along contour and according to plan, stakes are in place for sleeving the sewer line under the new driveway, contractor clearing trees from SDA so there was some SDA disturbance but we were able to find original grade ok to install (AP)

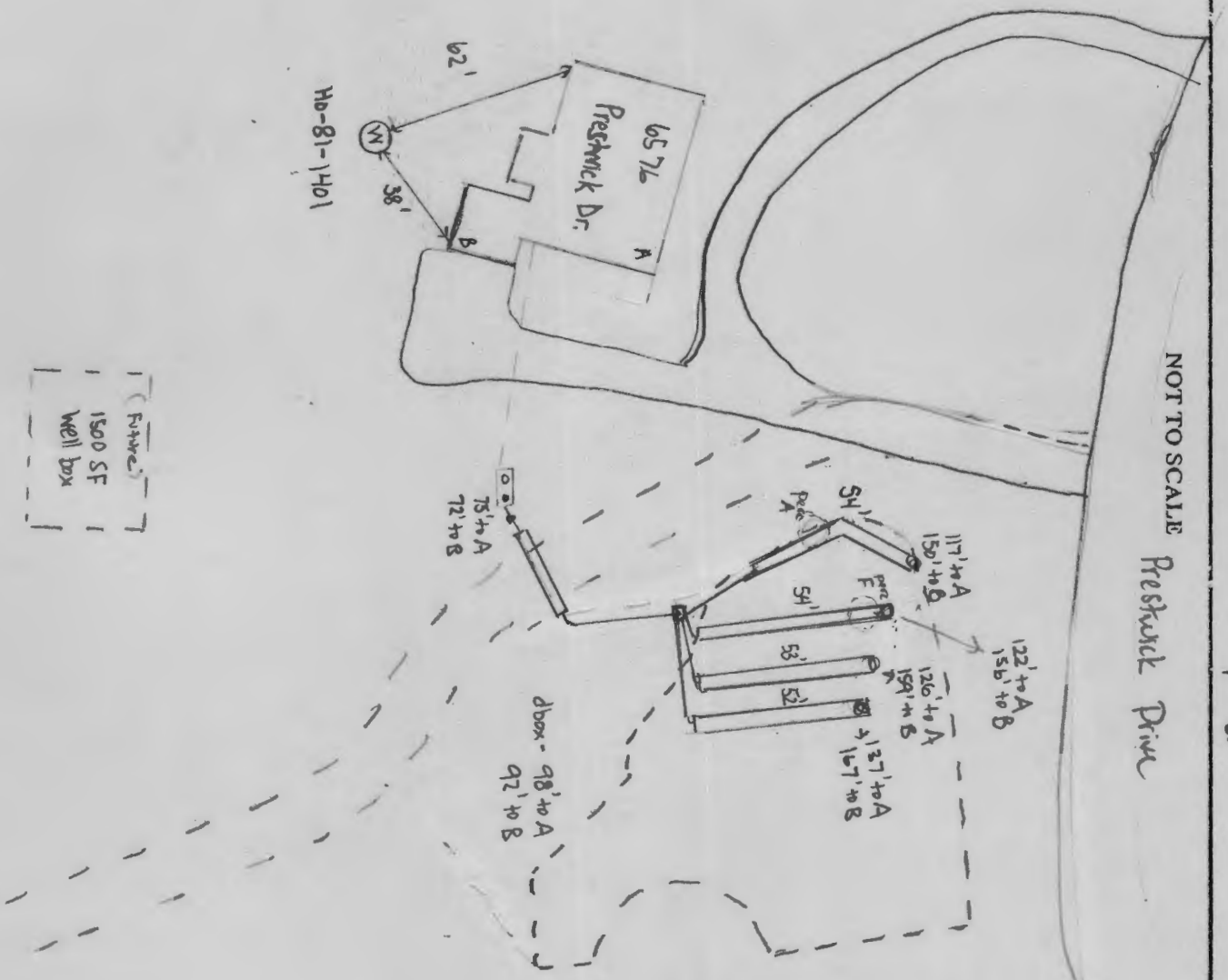
INSTALLATION:

4/12/23 - site inspection, contractor onsite and system installation completed, connection made to existing septic tank, old concrete baffle on front end of ST w/a riser added and a 4" baffle was installed on the back end of the ST, w/a c/o added, there was a 28' sleeve added to the sewer line which will be under the future driveway to be built, d box leveled w/ levelers, all 4 trenches completed, inlet looks good, Stone ok, geotextile fabric in place w/ observation ports at the end of each trench, soils consistent w/ perc data at perc holes A & F, ok to backfill. (AP) 4/18/23 - site inspection to verify as built measurements (AP)

FINAL INSPECTOR R. Rappaport, DATE OF APPROVAL 4/12/23

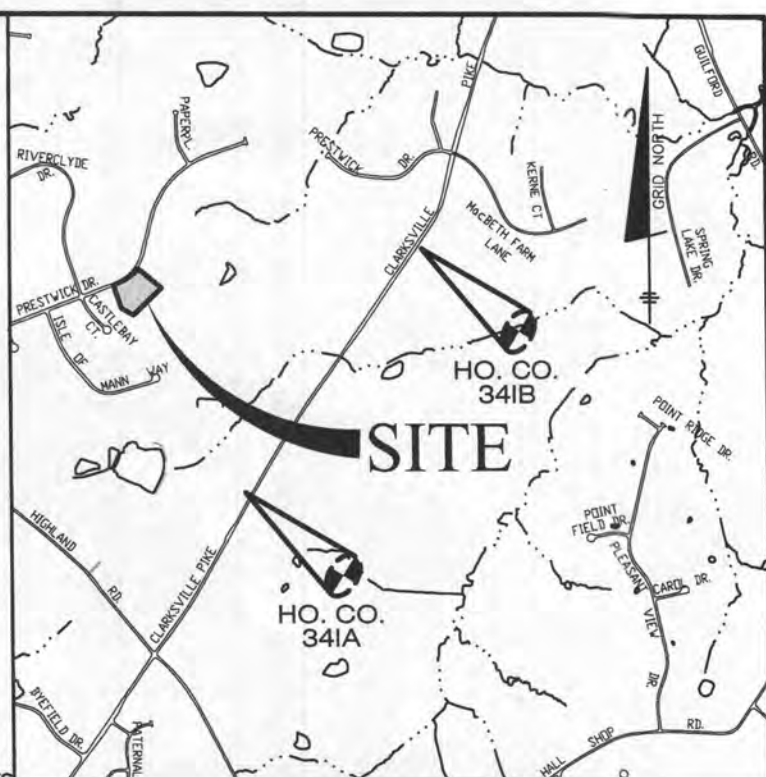
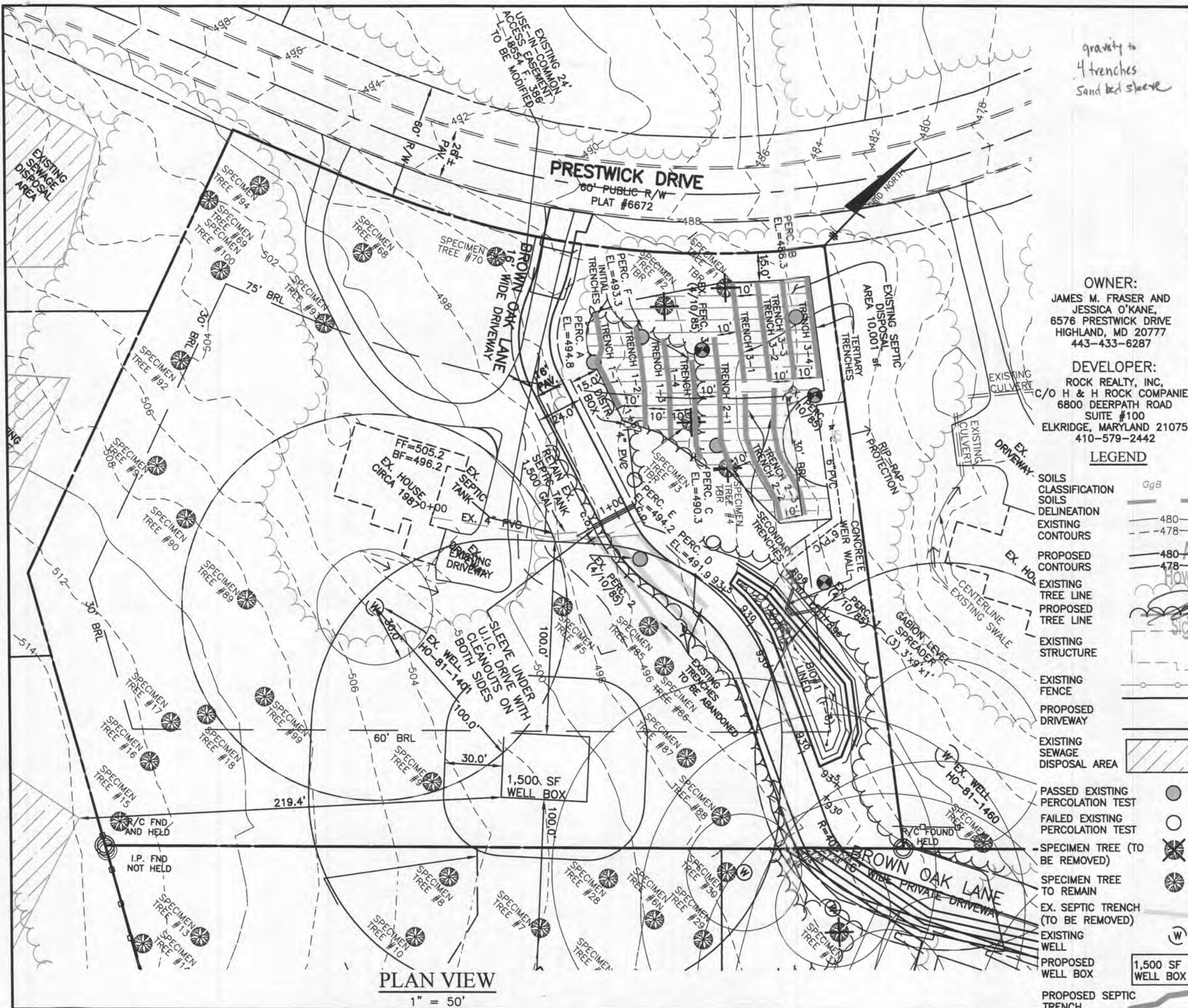
1" = 50'

NOT TO SCALE
Presnick Drive



Future
1500 SF
Well box

Hd-81-1401



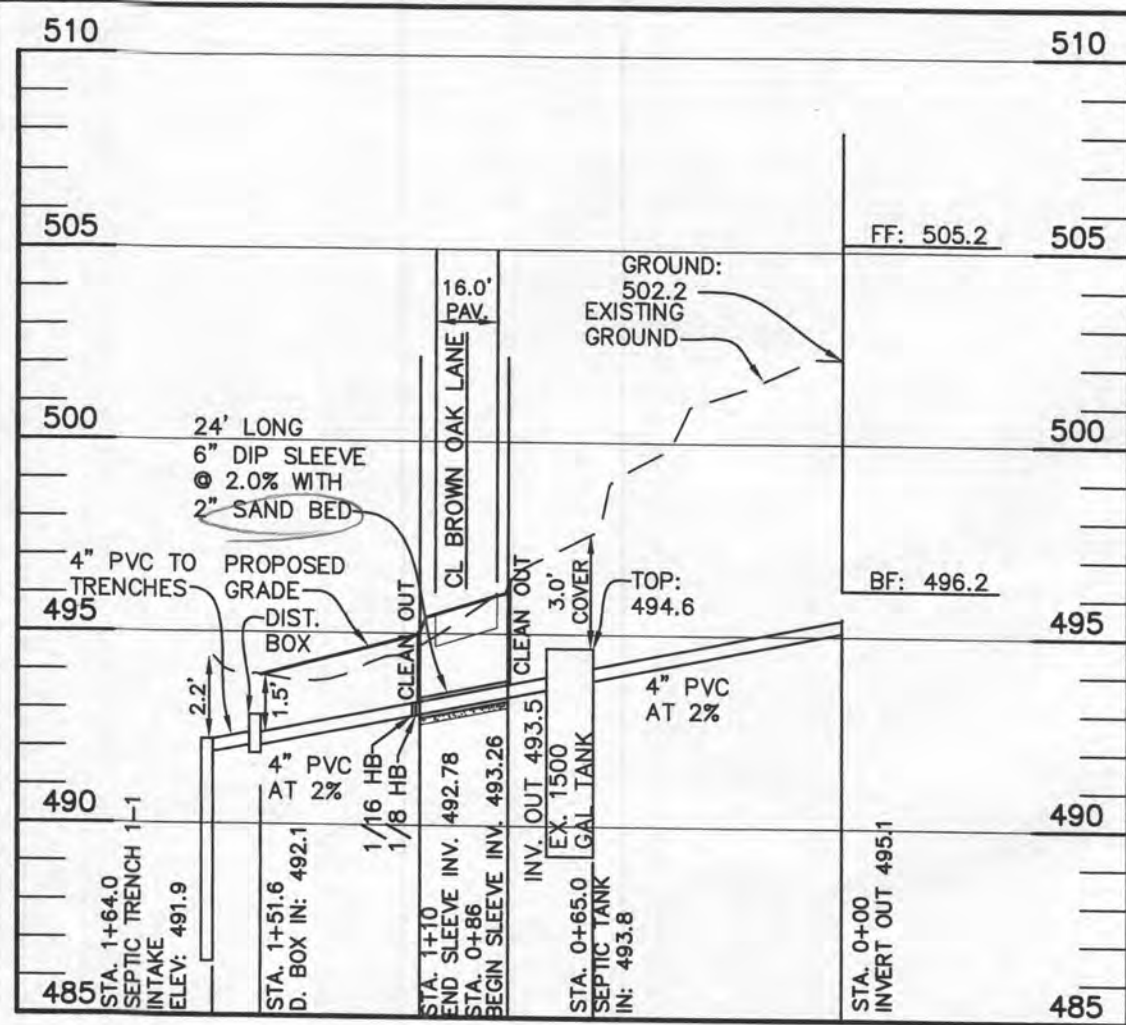
Approved Septic System Plan
Howard County Health Department

Signature: [Signature] Date: 2/16/23

Professional Engineer: [Signature] No. 45577, Exp. 2/10/25

SEE SHEET 2 FOR GENERAL NOTES

| | | |
|-------------|---|------------------|
| PROJECT: | GREENE FIELD LOT 19 | |
| LOCATION: | TAX MAP: 34, GRID: 23, PARCEL: 400 ZONED: RR-DEO 6576 PRESTWICK DRIVE, HIGHLAND MD 20777 5TH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-399211 | |
| TITLE: | ONSITE SEPTIC DESIGN SYSTEM PLAN | |
| HOUSE TYPE: | EXISTING HOUSE | |
| DATE: | FEBRUARY, 2023 | PROJECT NO. 2525 |
| SCALE: | AS SHOWN | DRAWING 1 OF 2 |



| TRENCH DATA | | | |
|----------------------------|----------------------------|----------------------------|--|
| INITIAL SYSTEM | FIRST REPLACEMENT | SECOND REPLACEMENT | |
| TRENCH 1-1 | TRENCH 2-1 | TRENCH 3-1 | |
| LENGTH (ft) 52.1 | LENGTH (ft) 69.5 | LENGTH (ft) 52.1 | |
| GROUND ELEVATION 494.4 | GROUND ELEVATION 490.7 | GROUND ELEVATION 489.8 | |
| INVERT ELEVATION 491.9 | INVERT ELEVATION 488.7 | INVERT ELEVATION 487.8 | |
| MAX BOTTOM ELEVATION 486.4 | MAX BOTTOM ELEVATION 482.7 | MAX BOTTOM ELEVATION 481.8 | |
| TRENCH 1-2 | TRENCH 2-2 | TRENCH 3-2 | |
| LENGTH (ft) 52.1 | LENGTH (ft) 69.5 | LENGTH (ft) 52.1 | |
| GROUND ELEVATION 493.4 | GROUND ELEVATION 489.8 | GROUND ELEVATION 488.8 | |
| INVERT ELEVATION 491.4 | INVERT ELEVATION 487.8 | INVERT ELEVATION 486.8 | |
| MAX BOTTOM ELEVATION 485.4 | MAX BOTTOM ELEVATION 481.8 | MAX BOTTOM ELEVATION 480.8 | |
| TRENCH 1-3 | TRENCH 2-3 | TRENCH 3-3 | |
| LENGTH (ft) 52.1 | LENGTH (ft) 69.5 | LENGTH (ft) 52.1 | |
| GROUND ELEVATION 492.6 | GROUND ELEVATION 488.5 | GROUND ELEVATION 488.0 | |
| INVERT ELEVATION 490.6 | INVERT ELEVATION 486.5 | INVERT ELEVATION 486.0 | |
| MAX BOTTOM ELEVATION 484.6 | MAX BOTTOM ELEVATION 480.5 | MAX BOTTOM ELEVATION 480.0 | |
| TRENCH 1-4 | TRENCH 3-4 | | |
| LENGTH (ft) 52.1 | LENGTH (ft) 52.1 | | |
| GROUND ELEVATION 491.8 | GROUND ELEVATION 487.0 | | |
| INVERT ELEVATION 489.8 | INVERT ELEVATION 485.0 | | |
| MAX BOTTOM ELEVATION 483.8 | MAX BOTTOM ELEVATION 479.0 | | |

| SEPTIC INVERT CHART - LOT 19 | | |
|----------------------------------|-------|--|
| adjust +0.7' for datum, verified | | |
| INV @ HOUSE | 495.1 | |
| GROUND @ HOUSE | 502.2 | |
| INV IN TANK (MEASURED) | 493.8 | |
| INV OUT TANK | 493.5 | |
| TOP OF TANK | 494.6 | |
| GROUND OVER TANK | 497.6 | |
| INV IN DIST BOX | 492.1 | |
| INV OUT DIST BOX | 492.0 | |
| GROUND AT DIST BOX | 493.9 | |

| INITIAL SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 7.0 | ft |
| Bottom Max Depth | 8.0 | ft |
| Design Flow | 600 | gpd |
| Drainage Field square footage | 750 | sf |
| Sidewall Reduction Credit | 0.83 | |
| Trench width | 3 | ft |
| Effective Area Depth | 1 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 208 | lf |

| 1st REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 7.0 | ft |
| Bottom Max Depth | 8.0 | ft |
| Design Flow | 600 | gpd |
| Drainage Field square footage | 750 | sf |
| Sidewall Reduction Credit | 0.83 | |
| Trench width | 3 | ft |
| Effective Area Depth | 1 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 208 | lf |

| 2nd REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 7.0 | ft |
| Bottom Max Depth | 8.0 | ft |
| Design Flow | 600 | gpd |
| Drainage Field square footage | 750 | sf |
| Sidewall Reduction Credit | 0.83 | |
| Trench width | 3 | ft |
| Effective Area Depth | 1 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 208 | lf |

DEVELOPER:
 ROCK REALTY, INC,
 C/O H & H ROCK COMPANIES
 6800 DEERPATH ROAD
 SUITE #100
 ELKRIDGE, MARYLAND 21075
 410-579-2442

OWNER:
 JAMES M. FRASER AND
 JESSICA O'KANE,
 2605 BROWN ALDER CT
 ODENTON, MD 21113

THIS PLAN IS FOR SEPTIC DESIGN ONLY



Professional Certification. 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. 45577, Expiration Date: 06-08-2024.

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER.

| SEPTIC INFORMATION - LOT 19 | | | | |
|-----------------------------|------------------|-----------------|--------------|--|
| System | Application Rate | Effective Depth | Bottom Depth | |
| Initial | 0.8 | 7.0 | 8.0 | |
| 1st Replacement | 0.8 | 7.0 | 8.0 | |
| 2nd Replacement | 0.8 | 7.0 | 8.0 | |

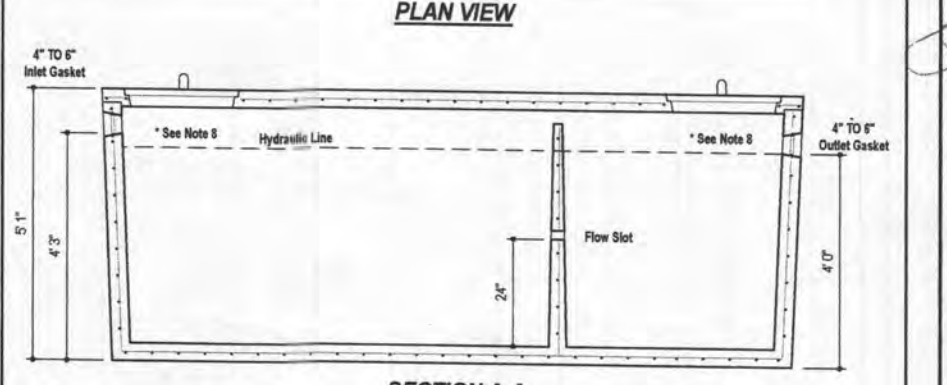
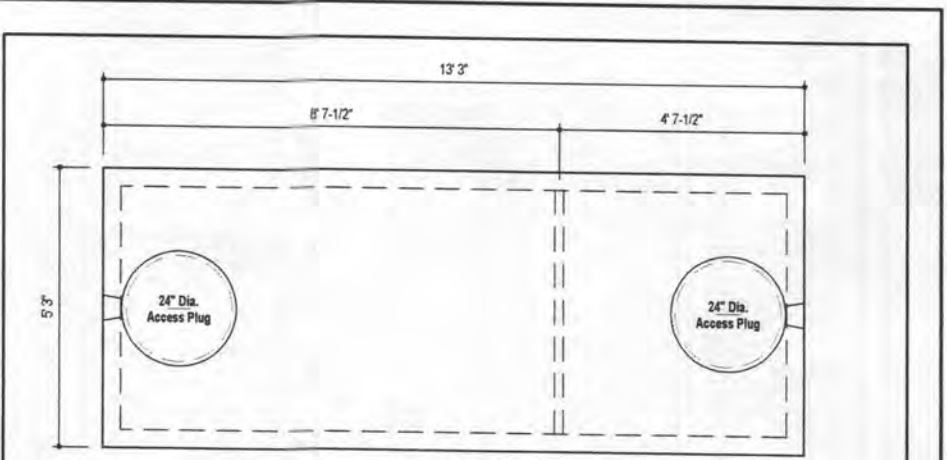
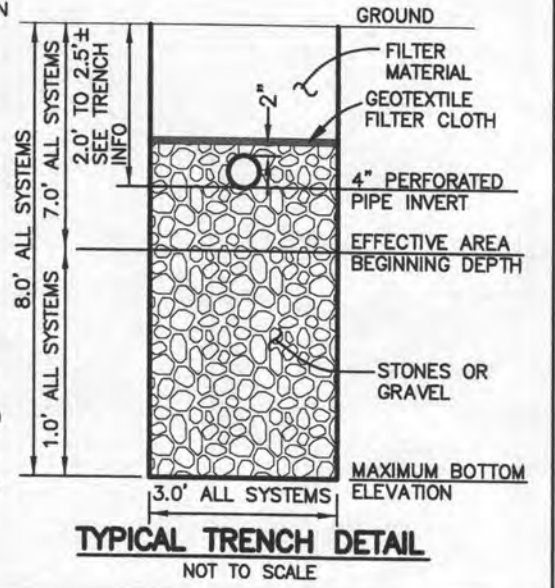
BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS

ENGINEERING, INC.
 3300 NORTH RIDGE ROAD SUITE 140
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644
 WWW.BEI-CIVILENGINEERING.COM

LOT 19 SEPTIC
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

- ONSITE SEWAGE DISPOSAL PLAN NOTES:**
- THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR GREENE FIELDS, PLAT Nos. 6672-6674. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
 - SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION.
 - TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., ON 9/15/2022.
 - ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
 - THE EXISTING WELL SHOWN ON THIS PLAN, HO-81-1401, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
 - THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
 - ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE BIORETENTION FACILITY.
 - THE EXISTING SEPTIC TANK IS A 1,500 GALLON TANK AND IS TO REMAIN.
 - ON-SITE SEWAGE DISPOSAL SYSTEM PLAN AND SYSTEM INSTALLATION MUST BE COMPLETED AND APPROVED PRIOR TO HEALTH DEPARTMENT SIGNATURE OF RECORD PLAT. TANK LOCATION AND SEWAGE DISPOSAL AREA MUST BE FENCED PRIOR TO HEALTH DEPARTMENT SIGNATURE OF RECORD PLAT.

IF FIELD INVESTIGATION SHOWS A NEED TO REPLACE THE SEPTIC TANK THE CONTRACTOR SHALL USE THIS DETAIL. SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS. WWW.MAYERPRECAST.COM EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.



DESIGN DATA & GENERAL NOTES

- Concrete strength f'c=4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Cement - Portland Type III per ASTM C 150-92.
- Admixtures & plasticizers per ASTM C 260-98 & C 494-07.
- Reinforcing per ASTM A 108. Min. 1-1/2" cover.
- Top slab sealed with butyl rope mastic.
- 4" wall, base, & top thickness.
- Max 3-1/2" of cover.
- Depending on use of tank, Inlet & Outlet baffles may be required by code.

WEIGHT = 16,750 lbs.

Mayer Bros., Inc.
 6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.798.1434
 Fax. 410.798.1438
 www.mayerbrosprecast.com

1,500 GALLON TANK (Non-Traffic) 2-Compartment
 Stock Item

Dwg. No. 1500-2C No Scale Aug. 11, 2008

PROJECT: **GREENE FIELD LOT 19**

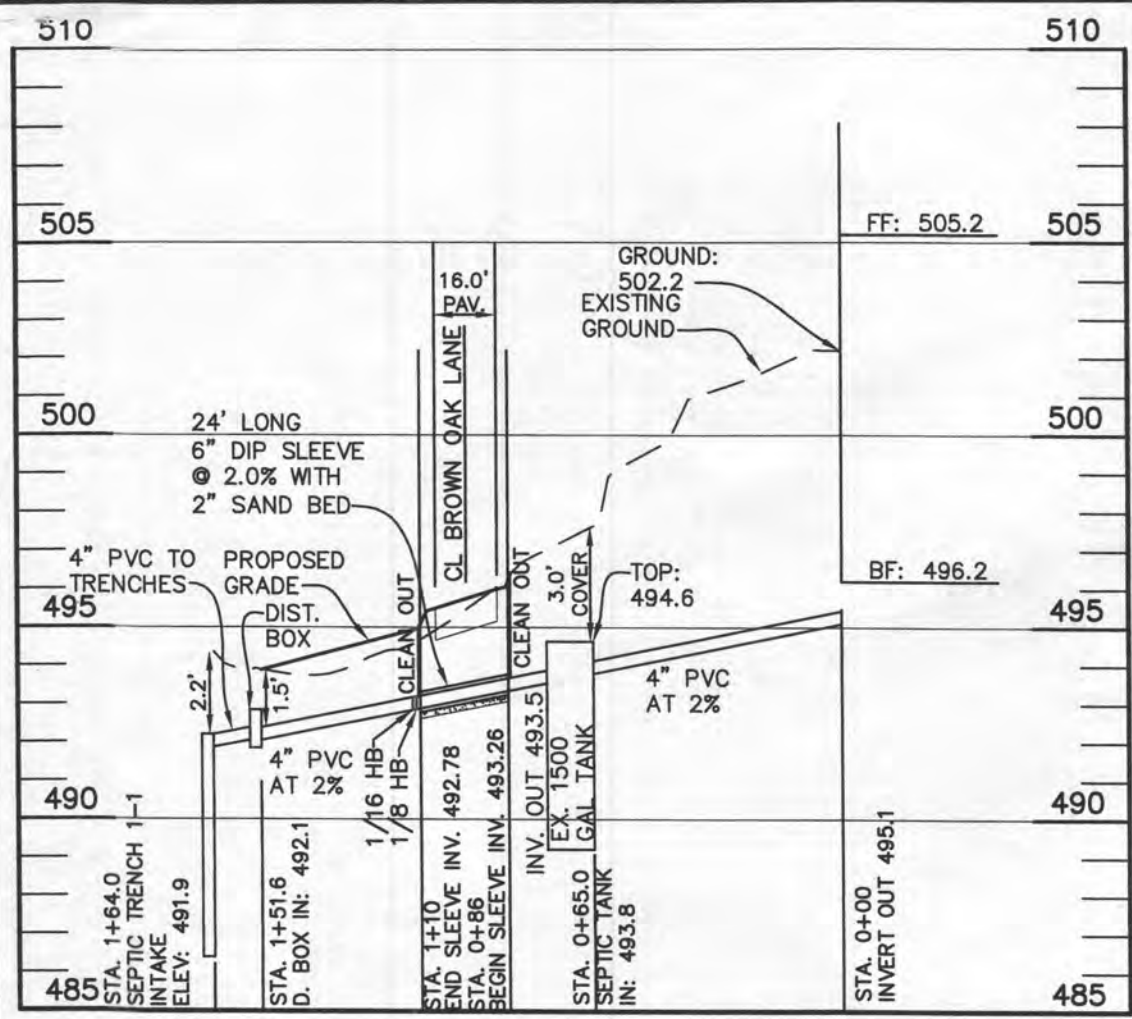
LOCATION: TAX MAP: 34, GRID: 23, PARCEL: 400 ZONED: RR-DEO
 6576 PRESTWICK DRIVE
 HIGHLAND MD 20777
 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-399211

TITLE: **ONSITE SEPTIC DESIGN SYSTEM PLAN**

HOUSE TYPE: **EXISTING HOUSE**

DATE: FEBRUARY, 2023 PROJECT NO. 2525

SCALE: AS SHOWN DRAWING 2 OF 2



| TRENCH DATA | | | | | |
|----------------------|-------|----------------------|-------|----------------------|-------|
| INITIAL SYSTEM | | FIRST REPLACEMENT | | SECOND REPLACEMENT | |
| TRENCH 1-1 | | TRENCH 2-1 | | TRENCH 3-1 | |
| LENGTH (ft) | 52.1 | LENGTH (ft) | 69.5 | LENGTH (ft) | 52.1 |
| GROUND ELEVATION | 494.4 | GROUND ELEVATION | 490.7 | GROUND ELEVATION | 489.8 |
| INVERT ELEVATION | 491.9 | INVERT ELEVATION | 488.7 | INVERT ELEVATION | 487.8 |
| MAX BOTTOM ELEVATION | 486.4 | MAX BOTTOM ELEVATION | 482.7 | MAX BOTTOM ELEVATION | 481.8 |
| TRENCH 1-2 | | TRENCH 2-2 | | TRENCH 3-2 | |
| LENGTH (ft) | 52.1 | LENGTH (ft) | 69.5 | LENGTH (ft) | 52.1 |
| GROUND ELEVATION | 493.4 | GROUND ELEVATION | 489.8 | GROUND ELEVATION | 488.8 |
| INVERT ELEVATION | 491.4 | INVERT ELEVATION | 487.8 | INVERT ELEVATION | 486.8 |
| MAX BOTTOM ELEVATION | 485.4 | MAX BOTTOM ELEVATION | 481.8 | MAX BOTTOM ELEVATION | 480.8 |
| TRENCH 1-3 | | TRENCH 2-3 | | TRENCH 3-3 | |
| LENGTH (ft) | 52.1 | LENGTH (ft) | 69.5 | LENGTH (ft) | 52.1 |
| GROUND ELEVATION | 492.6 | GROUND ELEVATION | 488.5 | GROUND ELEVATION | 488.0 |
| INVERT ELEVATION | 490.6 | INVERT ELEVATION | 486.5 | INVERT ELEVATION | 486.0 |
| MAX BOTTOM ELEVATION | 484.6 | MAX BOTTOM ELEVATION | 480.5 | MAX BOTTOM ELEVATION | 480.0 |
| TRENCH 1-4 | | TRENCH 3-4 | | | |
| LENGTH (ft) | 52.1 | LENGTH (ft) | 52.1 | | |
| GROUND ELEVATION | 491.8 | GROUND ELEVATION | 487.0 | | |
| INVERT ELEVATION | 489.8 | INVERT ELEVATION | 485.0 | | |
| MAX BOTTOM ELEVATION | 483.8 | MAX BOTTOM ELEVATION | 479.0 | | |

| SEPTIC INVERT CHART - LOT 19 | |
|---|-------|
| adjust +0.7' for datum, verified | |
| INV @ HOUSE | 495.1 |
| GROUND @ HOUSE | 502.2 |
| INV IN TANK (MEASURED) | 493.8 |
| INV OUT TANK | 493.5 |
| TOP OF TANK | 494.6 |
| GROUND OVER TANK | 497.6 |
| INV IN DIST BOX | 492.1 |
| INV OUT DIST BOX | 492.0 |
| GROUND AT DIST BOX | 493.9 |
| Adjusted invert at house to match current datum and field shots | |

| INITIAL SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
| Effective Area Beginning Depth | 7.0 | ft |
| Bottom Max Depth | 8.0 | ft |
| Design Flow | 600 | gpd |
| Drainage Field square footage | 750 | sf |
| Sidewall Reduction Credit | 0.83 | |
| Trench width | 3 | ft |
| Effective Area Depth | 1 | ft |
| Trench Spacing | 10 | ft |
| Linear Length of trench Required | 208 | lf |

| 1st REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
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| 2nd REPLACEMENT SYSTEM | | |
|----------------------------------|------|--------|
| Number of Bedrooms | 4 | |
| Application Rate | 0.8 | gpd/sf |
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DEVELOPER:
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 C/O H & H ROCK COMPANIES
 6800 DEERPATH ROAD
 SUITE #100
 ELK RIDGE, MARYLAND 21075
 410-579-2442

OWNER:
 JAMES M. FRASER AND
 JESSICA O'KANE,
 2605 BROWN ALDER CT
 ODENTON, MD 21113

THIS PLAN IS FOR SEPTIC DESIGN ONLY

Professional Certification. 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. 45577, Expiration Date: 06-08-2024.

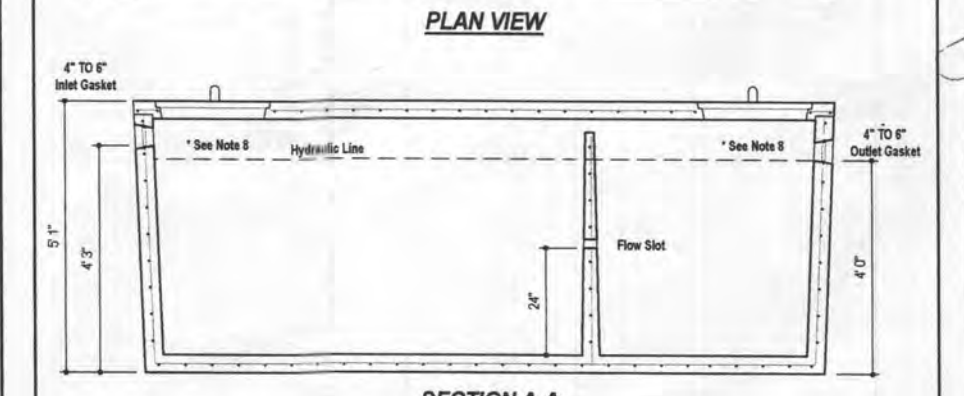
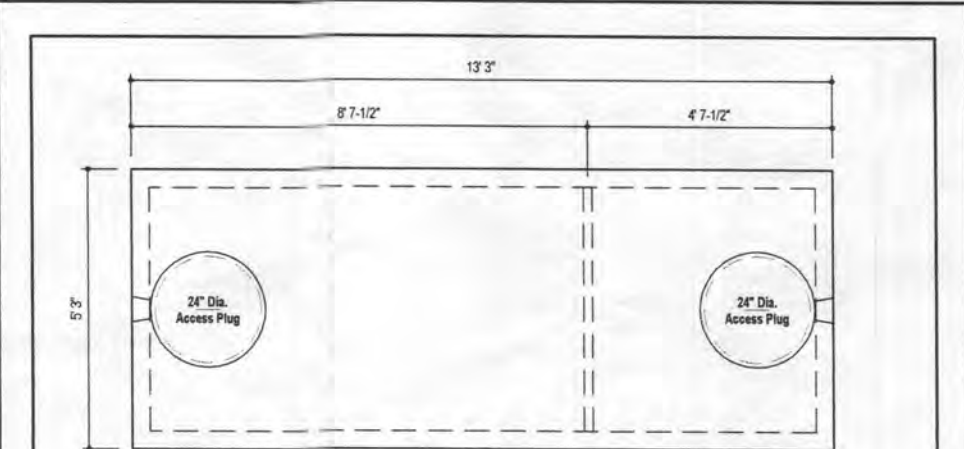
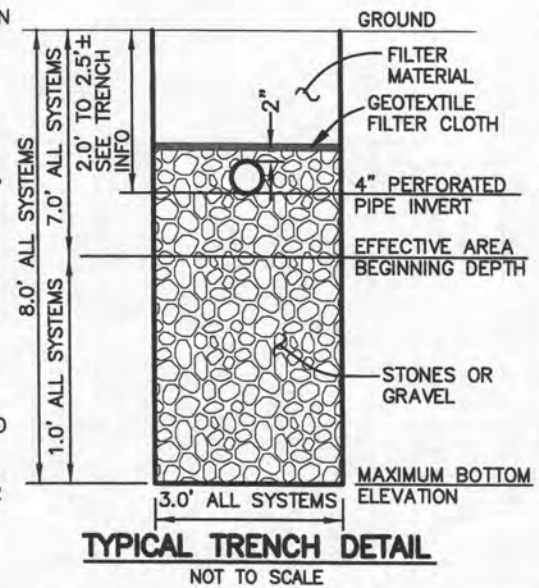
SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

| SEPTIC INFORMATION - LOT 19 | | | |
|-----------------------------|------------------|-----------------|--------------|
| System | Application Rate | Effective Depth | Bottom Depth |
| Initial | 0.8 | 7.0 | 8.0 |
| 1st Replacement | 0.8 | 7.0 | 8.0 |
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BENCHMARK ENGINEERING, INC.
 3300 NORTH RIDGE ROAD SUITE 140
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 (P) 410-465-6105 (F) 410-465-6644
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LOT 19 SEPTIC
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

IF FIELD INVESTIGATION SHOWS A NEED TO REPLACE THE SEPTIC TANK THE CONTRACTOR SHALL USE THIS DETAIL. SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS.
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DESIGN DATA & GENERAL NOTES

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- Cement - Portland Type III per ASTM C 150-92.
- Admixtures & plasticizers per ASTM C 200-96 & C 494-92.
- Reinforcing per ASTM A 105. Min. 1-1/2" cover.
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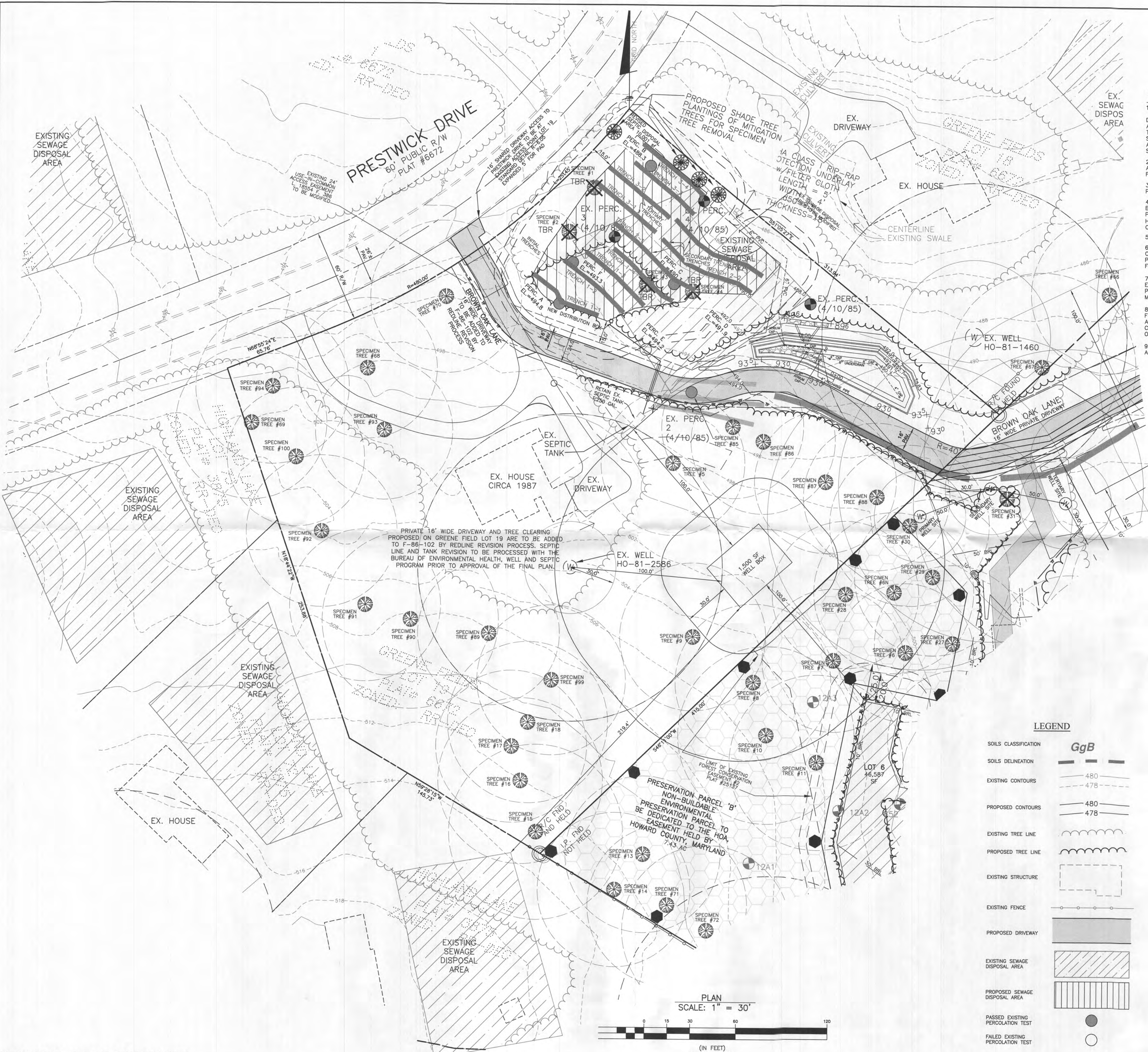
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 Stock Item

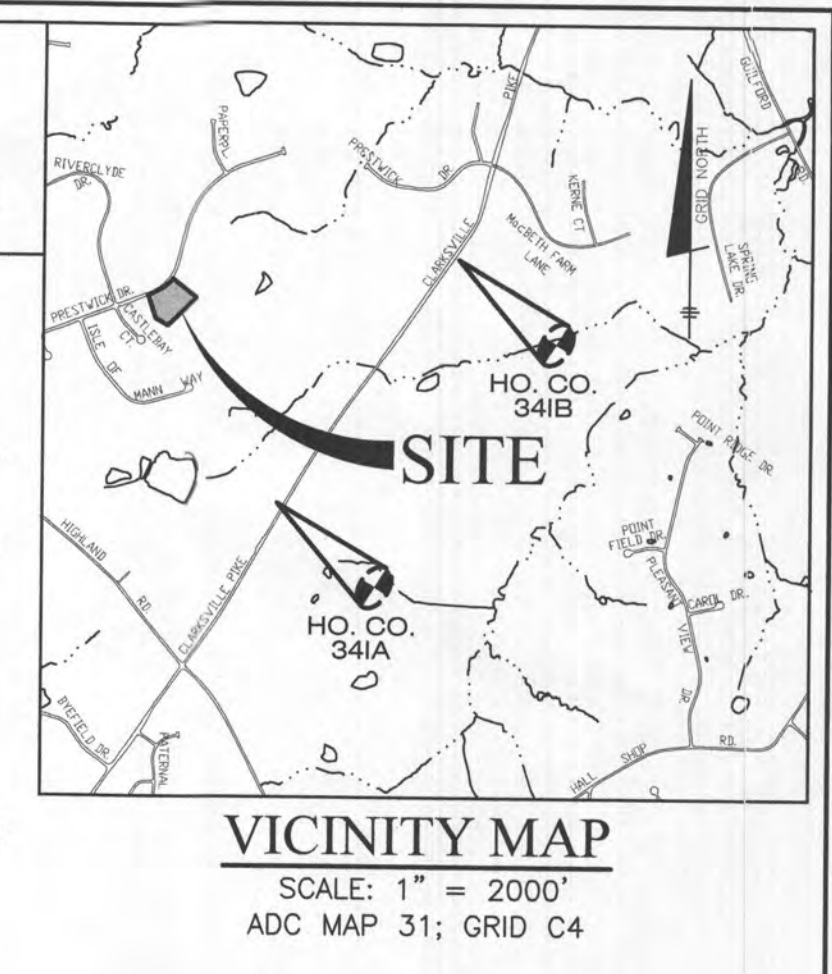
Mayer Bros., Inc.
 6264 River Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
 www.mayerbrosprecast.com

Dwg. No. 1500-2C No Scale Aug. 11, 2008

- ONSITE SEWAGE DISPOSAL PLAN NOTES:**
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 - SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION.
 - TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., ON 9/15/2022.
 - ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
 - THE EXISTING WELL SHOWN ON THIS PLAN, HO-81-1401, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
 - THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
 - ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE BIORETENTION FACILITY.
 - THE EXISTING SEPTIC TANK IS A 1,500 GALLON TANK AND IS TO REMAIN.
 - ON-SITE SEWAGE DISPOSAL SYSTEM PLAN AND SYSTEM INSTALLATION MUST BE COMPLETED AND APPROVED PRIOR TO HEALTH DEPARTMENT SIGNATURE OF RECORD PLAT. TANK LOCATION AND SEWAGE DISPOSAL AREA MUST BE FENCED PRIOR TO HEALTH DEPARTMENT SIGNATURE OF RECORD PLAT.



HOWARD COUNTY BENCHMARKS
 341A: N 553,271.9128 E 1,325,838.7488 ELEV. 471.944
 341B: N 554,973.5233 E 1,327,078.7699 ELEV. 442.801



GENERAL NOTES

- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT. THE LOT SIZE FOR THIS LOT WILL FULFILL THE REQUIREMENTS OF THE ZONING REGULATIONS.
- ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY'S BOUNDARIES EXCEPT THAT WHICH ARE SHOWN. INFORMATION CONCERNING THE ADJOINING PROPERTIES HAS BEEN OBTAINED FROM THE BUREAU OF ENVIRONMENTAL HEALTH, HOWARD COUNTY GIS, AND THE ENGINEER/SURVEYOR OF THE ORIGINAL PERCOLATION CERTIFICATION.
- GROUNDWATER APPROPRIATIONS PERMIT (GAP) IS NOT REQUIRED FOR THIS LOT.
- THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM HOWARD COUNTY GIS. TRACT OUTLINE SHOWN IS FROM HOWARD COUNTY GIS. A MORE ACCURATE OUTLINE WILL BE PROVIDED AT PERMIT STAGE. TOPOGRAPHY FOR THE SEPTIC AREA ON LOT 19 WILL BE FIELD RUN BY PRIOR TO SEPTIC PERMIT APPLICATION.
- THE PURPOSE OF THIS REVISED PERCOLATION CERTIFICATION IS TO ADJUST THE EXISTING PRIVATE SEWAGE DISPOSAL AREA ON LOT 19 DUE TO THE REVISION OF A PRIVATE VARIABLE WIDTH USE-IN-COMMON INGRESS, EGRESS, STORMWATER MANAGEMENT, & UTILITY EASEMENT.
- ANY MICRO-BIORETENTION FACILITIES WITHIN 100 FEET OF A WELL, AS MEASURED FROM THE WELL BOX TO THE FILTER MEDIA, SHALL BE LINED. LINING WILL BE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT DETAIL AS SHOWN ON THE FINAL CONSTRUCTION PLAN. MICRO-BIORETENTION FACILITIES ARE NOT ALLOWED WITHIN 50' OF WELL OR WELL BOXES.
- PERCOLATION TEST FEE RECEIPT NUMBER, REFERENCED IN THE APPROVING AUTHORITY CORRESPONDENCE, IS _____

| INITIAL SYSTEM | |
|----------------------------------|------------|
| Number of Bedrooms | 4 |
| Application Rate | 0.8 gpd/sf |
| Effective Area Beginning Depth | 7.0 ft |
| Bottom Max Depth | 8.0 ft |
| Design Flow | 600 gpd |
| Drainage Field square footage | 750 sf |
| Sidewall Reduction Credit | 0.83 |
| Trench width | 3 ft |
| Effective Area Depth | 1 ft |
| Trench Spacing | 10 ft |
| Linear Length of trench Required | 208 lf |

| HEALTH DEPARTMENT SPEC SHEET INFORMATION - LOT 19 | | | |
|---|------------------|-----------------|--------------|
| System | Application Rate | Effective Depth | Bottom Depth |
| Initial | 0.8 | 7.0 | 8.0 |
| 1st Replacement | 0.8 | 7.0 | 8.0 |
| 2nd Replacement | 0.8 | 7.0 | 8.0 |

| Trench Lengths - Initial System | | | |
|---------------------------------|------------|------------|------------|
| 3 trenches | 4 Trenches | 5 trenches | 6 trenches |
| 69.5 ft | 52.1 ft | 41.7 ft | 34.8 ft |

| 1st REPLACEMENT SYSTEM | |
|----------------------------------|------------|
| Number of Bedrooms | 4 |
| Application Rate | 0.8 gpd/sf |
| Effective Area Beginning Depth | 7.0 ft |
| Bottom Max Depth | 8.0 ft |
| Design Flow | 600 gpd |
| Drainage Field square footage | 750 sf |
| Sidewall Reduction Credit | 0.83 |
| Trench width | 3 ft |
| Effective Area Depth | 1 ft |
| Trench Spacing | 10 ft |
| Linear Length of trench Required | 208 lf |

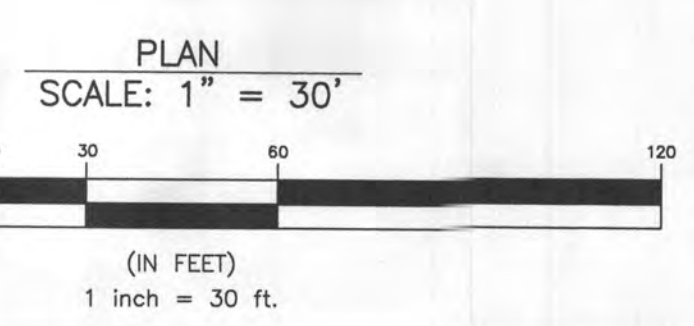
| Trench Lengths - 1st Replacement | | | |
|----------------------------------|------------|------------|------------|
| 2 trenches | 3 Trenches | 4 trenches | 5 trenches |
| 104.2 ft | 69.5 ft | 52.1 ft | 41.7 ft |

| 2nd REPLACEMENT SYSTEM | |
|----------------------------------|------------|
| Number of Bedrooms | 4 |
| Application Rate | 0.8 gpd/sf |
| Effective Area Beginning Depth | 7.0 ft |
| Bottom Max Depth | 8.0 ft |
| Design Flow | 600 gpd |
| Drainage Field square footage | 750 sf |
| Sidewall Reduction Credit | 0.83 |
| Trench width | 3 ft |
| Effective Area Depth | 1 ft |
| Trench Spacing | 10 ft |
| Linear Length of trench Required | 208 lf |

| Trench Lengths - 2nd Replacement | | | |
|----------------------------------|------------|------------|------------|
| 2 trenches | 3 Trenches | 4 trenches | 5 trenches |
| 104.2 ft | 69.5 ft | 52.1 ft | 41.7 ft |

LEGEND

- SOILS CLASSIFICATION: GgB
- SOILS DELINEATION: ---
- EXISTING CONTOURS: -480, -478
- PROPOSED CONTOURS: -480, -478
- EXISTING TREE LINE: ~~~~~
- PROPOSED TREE LINE: ~~~~~
- EXISTING STRUCTURE: []
- EXISTING FENCE: []
- PROPOSED DRIVEWAY: []
- EXISTING SEWAGE DISPOSAL AREA: []
- PROPOSED SEWAGE DISPOSAL AREA: []
- PASSED EXISTING PERCOLATION TEST: ●
- FAILED EXISTING PERCOLATION TEST: ○



TAKEN FROM THE NRCS WEB SOIL SURVEY AUGUST 2014, MAP 23.

| | | |
|--|--|--|
| <p>BENCHMARK ENGINEERS & PLANNERS, INC. 3300 NORTH RIDGE ROAD SUITE 140 A ELICOTT CITY, MARYLAND 21043 (P) 410-465-8108 (F) 410-465-8644 WWW.BE-CALENGINEERING.COM</p> | | <p>Professional Certification. 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. 45577, Expiration Date: 06-08-2024.</p> |
| <p>OWNER: JAMES M. FRASER AND JESSICA O'KANE, 2605 BROWN ALDER CT ODENTON, MD 21113</p> | <p>CLARKSVILLE CROSSING LOT 19 6576 PRESTWICK DRIVE</p> | |
| <p>DEVELOPER: ROCK REALTY, INC. C/O H & H ROCK COMPANIES 6800 DEERPATH ROAD SUITE #100 ELKRIDGE, MARYLAND 21075 410-579-2442</p> | <p>TAX MAP: 34 GRID: 23 PARCEL: 400 ZONED: RR-DEO ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND</p> | |
| <p>CONCEPT ONSITE SEPTIC DISPOSAL SYSTEM PLAN</p> | | |
| <p>DESIGN: JC</p> | <p>DRAWN: LDD</p> | <p>DATE: DEC., 2022 BEI PROJECT NO: 2525 SCALE: AS SHOWN SHEET 1 OF 1</p> |