

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: 6/18/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 556489
 APPROVAL DATE: 7/21/15 RW **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 815 Iron Rail Court
 SUBDIVISION: Morgan Station LOT: 8 TAX ID: 04-347439
 CONTRACTOR: Fogle's Septic Clean Inc. EMAIL: kevin@foglesinc.com
 CONTRACTOR ADDRESS: 580 Obrecht Road, Sykesville, MD 21784 PHONE: 410-795-5670

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Steven and Caryn Clarke EMAIL: clarkefmlly@aol.com
 OWNER ADDRESS: 1506 Rising Ridge, Mount Airy, MD 21771 PHONE: _____

BAT UNIT MODEL: HOOT 600 BNR PUMP SIZE: _____ PUMP TANK CAPACITY: 750 GPD

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

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

TRENCHES:	LINEAR FEET REQUIRED: <u>106 126</u>	INLET DEPTH: <u>4 5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8 8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>11</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>

LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: 2x63'

ISSUED BY: Robert Bricker ISSUE DATE: 6/18/15 EXPIRATION DATE: 6/19/16

- 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 SEPTIC 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 _____
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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 Seperate Sheet for As-built

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3 INLET 5 BOTTOM 8
NUMBER OF TRENCHES 2
TOTAL LENGTH 123'
ABSORPTION AREA
DISTRIBUTION BOX LEVEL Levelers
DISTRIBUTION BOX BAFFLE Yes
DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes
MANUFACTURER Norweco
CAPACITY 1600 GAL
SEAM LOC Top
TANK LID DEPTH 3
BAFFLES Yes
BAFFLE FILTER
MANHOLE LOC Front/End/Rear
6" PORT LOC None
WATERTIGHT TEST
SLOTTED Yes
DATE ON LID N/A

PUMP/SEPTIC TANK LEVEL N/A

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

PRE-CONSTRUCTION:

7/6/2015 Per Brian B.

INSTALLATION:

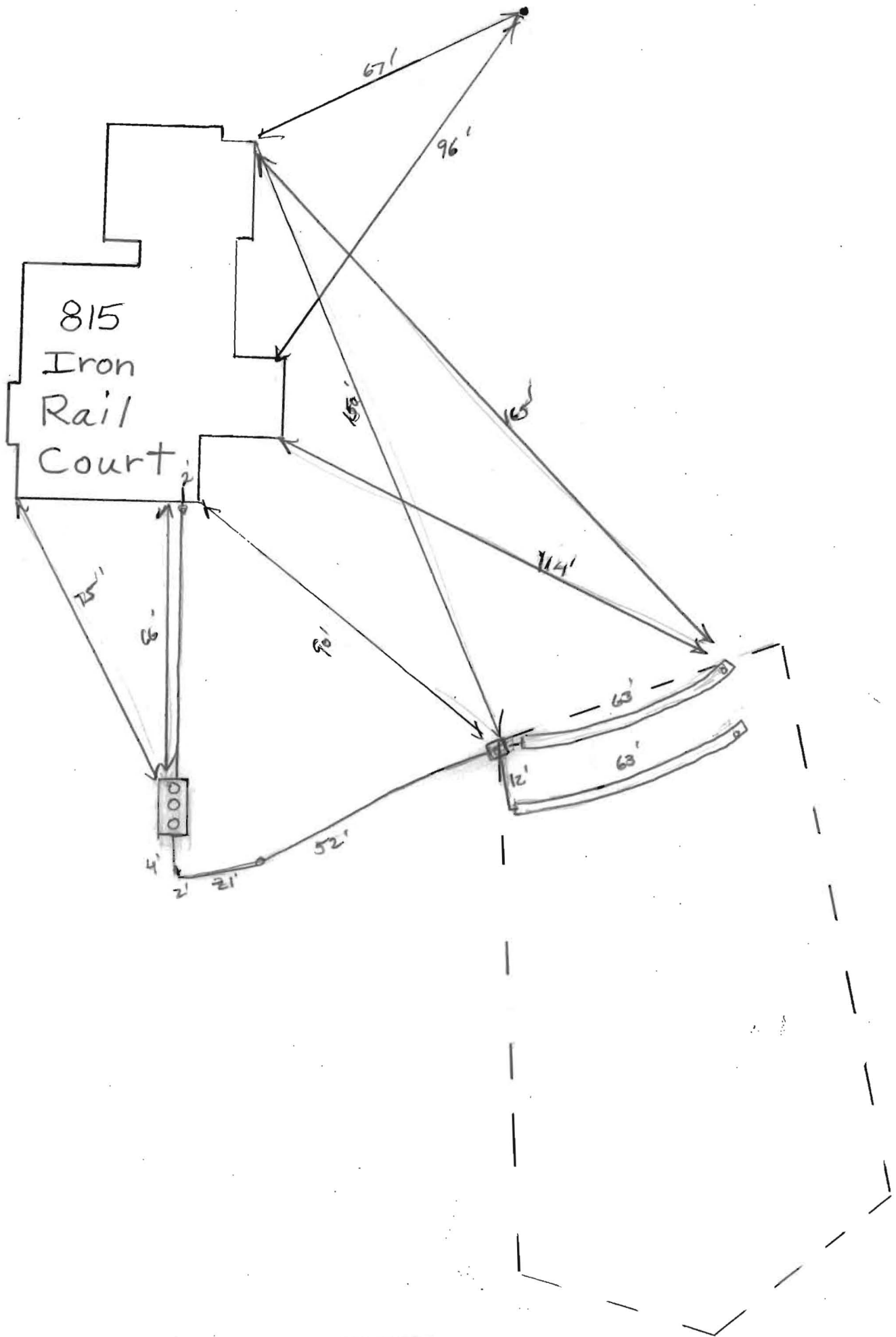
7/7/15 BAT unit installed w/ SHC. started installing line to Dbox. Hoot unit not installed, explained to contractor that if BAT unit changes then BAT plan must be revised (KW)
7/8/15 (am) Dbox set w/ trenches installed. Need caps on obs pipes and start-up cert. from Norweco rep. (KW) 7/9/15 caps on OK to cover all work. (KW)

FINAL INSPECTOR

[Signature]

DATE OF APPROVAL

7/21/15



Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

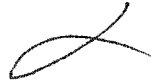
Letter of Certification

This is to certify that the Norweco Singulair TNT 600 GPD Septic Tank installed at 815 Iron Rail Ct., Woodbine, MD 21797 was installed on July 7, 2015 according to the manufacture's specifications.

Installer: James Deavers

Property Owner: Steven Clarke

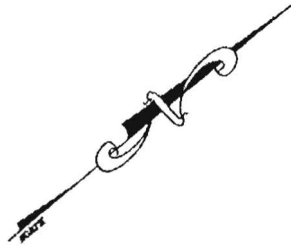
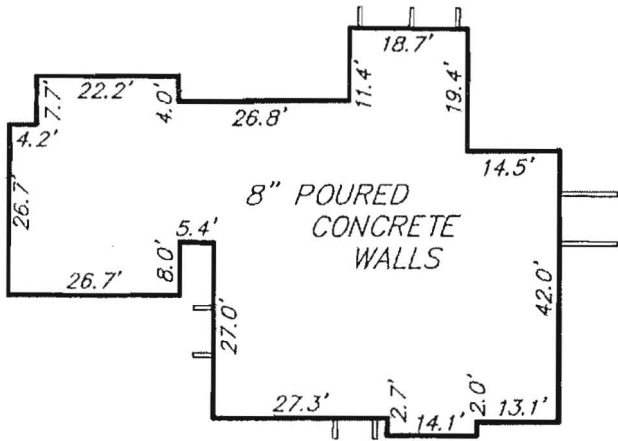
Permit #



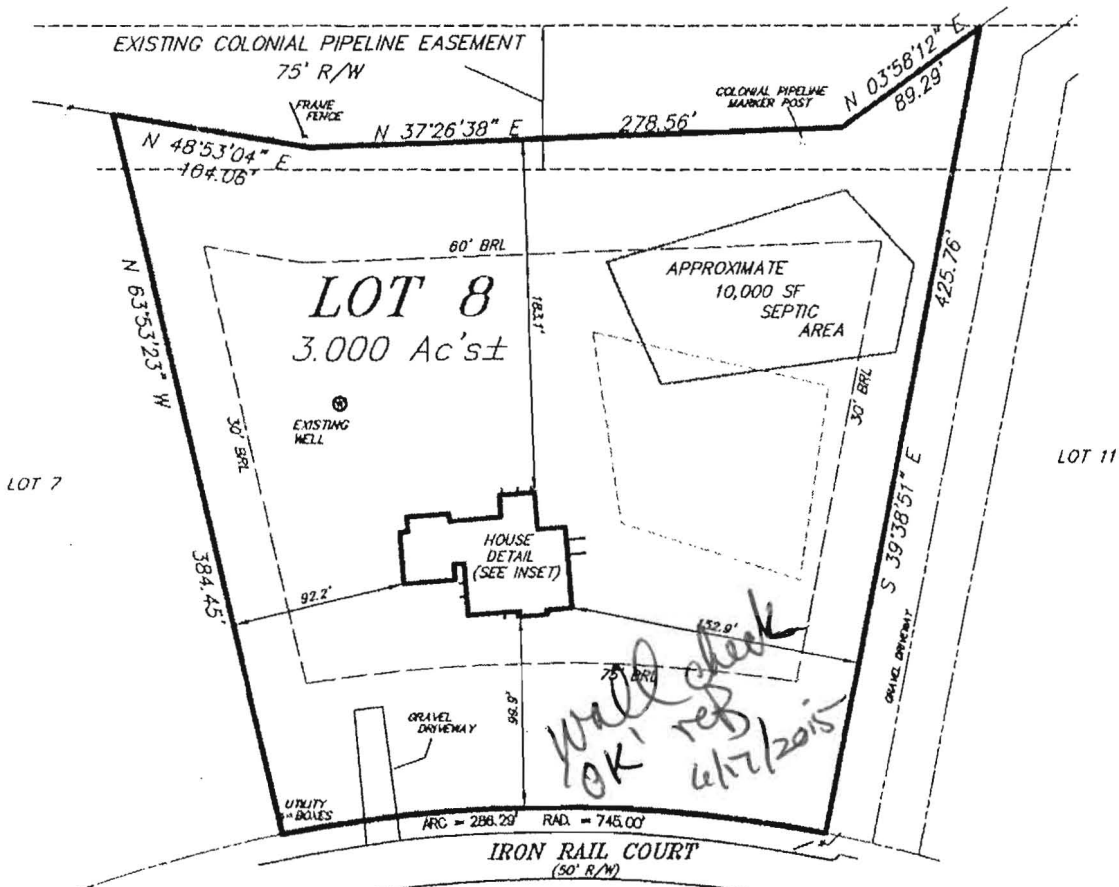
MATTHEW GECKLE

Vice-President

Wall Check



HOUSE DETAIL
1" = 30'



NOTE:
TOP WALL ELEVATION = 562.33



License Expir./Renewal
Date: 4/1/2016

WALL CHECK SURVEY 14-103
LOT 8
MORGAN STATION
SITUATED ON IRON RAIL COURT
TAX MAP 3, PARCEL 44
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
DATE: APRIL 14, 2015 SCALE: 1" = 100'

LAVELLE & ASSOCIATES
INCORPORATED
PLANNERS · LAND SURVEYORS
5732 Industry Lane
Frederick, Maryland 21704
Tel: (301) 695-9722
Fax: (301) 695-9786

LAVELLE & ASSOCIATES, INCORPORATED

LAND SURVEYORS • PLANNERS

March 19, 2015

Mr. Robert Bricker
Bureau of Environmental Health
Howard County Health Department
8930 Stanford Blvd.,
Columbia, MD 21045

RE: BAT Site Plan; Morgan Station Lot 8 (815 Iron Rail Court; Clarke residence)

Dear Mr. Bricker:

The following is a point by point response to your comments dated March 17, 2015

1. The LP tank has been moved so that it is 52' from the well at its closest point, as shown on the attached revised plan.
2. The following has been updated:
 - a. The coefficient has been updated, and a new minimum trench length of 105' has been calculated.
 - b. Corrected
 - c. Spacing has been updated to 11' minimum.
3. Two 53' long trenches are proposed, and the spacing is shown as 11' minimum.
4. Septic Reserve has been changed to "APPROVED"

If you should have any questions, please contact me.

Sincerely,



Dustin M. Lavelle, Prof. L.S.
Vice President

815 IRON RAIL CT WOODBRINE

Clerk of the Circuit Court for MD
Howard County
Land Records/Licensing 21797

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: CLARKE
Reference/Control #: 99

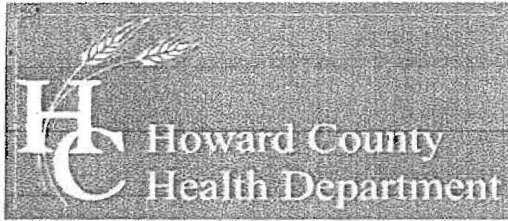
LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
REV-Check-BOA 60.00
Number : 211

06/12/2015 13:27 CC13-ES
#4383648 /1247/109

~ Thank you for visiting us today ~



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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 12th day of June 2015, among Steve & Caryn Clarke, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 815 IRONRAIL Ct Woodlawn, in the 4 Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber _____ Folio _____.

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013. The pre-treatment device being installed is HOOT BNR 600.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time with prior notice for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Bert Nye 6/12/2015
Howard County Health Department

St M Clark 6/11/15
Owner #1 Signature Date

Caryn A Clarke 6/11/15
Owner #2 Signature Date

STEVEN M CLARKE 6/11/15
Owner #1 Print Name

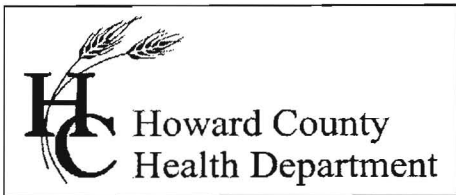
Caryn A Clarke 6/11/15
Owner #2 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name



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

RECEIPT DATE: _____ **ONSITE SEWAGE DISPOSAL SYSTEM** P _____

INSTALLATION APPROVAL DATE: _____ **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: **815 IRON RAIL COURT**

SUBDIVISION: **MORGAN STATION** LOT: **8** TAX ID: **04-347439**

CONTRACTOR: _____ EMAIL: _____

CONTRACTOR ADDRESS: _____ PHONE: _____

PROPERTY OWNER: **STEVEN and CARYN CLARKE** EMAIL: **clarkefmy@aol.com**

OWNER ADDRESS: **1506 RISING RIDGE, MT. AIRY, MD 21771** PHONE: _____

BAT UNIT MODEL: **HOOT 600 GPD BNR** PUMP SIZE: _____ PUMP TANK CAPACITY: **750**

DISTRIBUTION SYSTEM: GRAVITY LOW PRESSURE DOSED NUMBER OF BEDROOMS: **4**

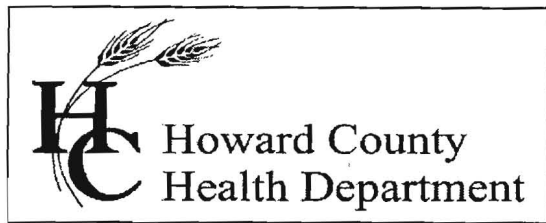
TRENCHES:	LINEAR FEET REQUIRED: 106	INLET DEPTH: 4
	TRENCH WIDTH: 3	MAXIMUM BOTTOM DEPTH: 8
	MINIMUM SPACE BETWEEN TRENCHES: 11	EFFECTIVE AREA BEGINNING DEPTH: 4
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: **ROBERT BRICKER** ISSUE DATE: _____ EXPIRATION DATE: _____

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



Bureau of Environmental Health

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

March 17, 2015

To: Dustin Lavelle, PLS, Lavelle & Associates, Inc.

RE: BAT Site Plan comments; Morgan Station Lot 8 (815 Iron Rail Court; Clarke residence)

The following amendments, deletions, or revisions are needed on the submitted BAT Plan for the subject property.

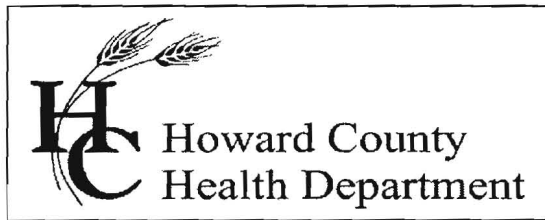
1. The LP tank is illustrated within 50 feet of the existing well which is a condition that I cannot approve. Any part of the LP tank must be at least 50 feet from the well (if it is nearly level or at a lower elevation).
2. There are two errors in TRENCH DESIGN:
 - a. The coefficient 0.55 utilized to calculate trench length is incorrect for the amount of effective sidewall available in the 8-foot deep trench. The 4 feet of trench under the pipe elevation is all effective sidewall. Therefore, 0.42 is the value of the coefficient by which the trench length is reduced.
 - b. Correct the calculated total trench length accordingly.
 - c. The 10-foot minimum spacing between trenches is incorrect. There is 4 feet of effective sidewall in the 3-foot wide trenches. Therefore, the minimum spacing for these trenches is $(2 \times 4\text{ft.}) + 3\text{ft.} = \underline{11\text{feet}}$.
3. Correct the number and length of trenches, and the spacing between trenches for the respective systems in the septic reserve area.
4. Remove the term "PROPOSED" from the septic reserve area label and replace it with the term 'APPROVED'.

You may contact me at 410-313-2691, or by email, if you have questions about these requirements.

Respectfully,

Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Health Specialist
Well and Septic Program

Copy: Joel Rensberger, CE Rensberger & Family
Caryn Clarke
file



Bureau of Environmental Health

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

Date: November 18, 2014

To: C.E. Rensberger & Family, c/o Dawn Lawson, Applicant
dlawson@danryanbuilders.com

From: Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Sanitarian II, Well and Septic Program
410-313-2691

RE: B14003735, Building Permit Application for construction of single-family dwelling at 815 Iron Rail Court (Tax Map 3, Parcel 44)

The referenced Building Permit Application is 'On Hold'. The following issues must be resolved for Health Department approval of the proposal.

1. The well casing must be extended to at least 8 inches above the surface of the soil. Approval of the building permit will be withheld until after the well casing is inspected and approved by an Environmental Sanitarian employed by the Howard County Health Department. Please notify me when the well casing has been properly extended.
2. A BAT Site Plan for installation of the septic system must be submitted and approved prior to Health Department approval of the building permit. Requirements for this plan are attached. Submit two copies of the BAT Site Plan directly to the Bureau of Environmental Health, to my attention.
3. The Plot Plan must be revised. Accurately illustrate the sewage disposal area (SDA) and the approved replacement well locations as they were approved on the most recent Percolation Certification Plan (signed 12/21/2012). Submit the amended Plot Plan to the Howard County Division of Inspections, Licenses, and Permits (DILP) as a formal revision. Please be sure that all well and septic system setbacks are observed, including the required distances to stormwater management facilities.

Please be advised that Use and Occupancy will not be permitted by the Health Department until such time that all functions of the septic system are approved and the well is certified as a potable water source.

RB
Enclosure: (1), BAT Site Plan content requirements
Copy: file

Bricker, Robert

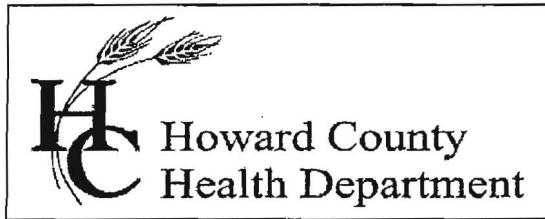
From: Bricker, Robert
Sent: Tuesday, November 18, 2014 10:45 AM
To: 'dlawson@danryanbuilders.com'
Subject: 815 Iron Rail Ct_comments_B14003735
Attachments: 815 Iron Rail Court_B14003735_On Hold.pdf; BAT_plan_requirements_12-6-2112[1].pdf

See attached PDFs.

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 4120-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov



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

Date: November 18, 2014

To: C.E. Rensberger & Family, c/o Dawn Lawson, Applicant
dlawson@danryanbuilders.com

From: Robert Bricker, REHS/R.S., L.E.H.S.
Environmental Sanitarian II, Well and Septic Program
410-313-2691

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Please be advised that Use and Occupancy will not be permitted by the Health Department until such time that all functions of the septic system are approved and the well is certified as a potable water source.

RB

Enclosure: (1), BAT Site Plan content requirements

Copy: file

Mr. Lavelle,

The plan received here on February 23, the Grading Plan, does not include all of the information required for approval of the ^{OSDS design} proposal by the Health Department. Please see attachment named 'BAT_plan_requirements_12-6-2012' for required content of the BAT Site Plan. All of the content described in this document must be represented on the plan submitted to the Health Department. I have noticed that the septic system drainfield you've proposed is too compact and the spacing between trenches is too narrow. As a result, the area you've defined within the "LOD" is too small to accommodate a properly designed drainfield. The full width of the upper septic reserve area needs to be available for installation of properly designed trenches.

If you wish, we can meet with you to discuss the required plan content. Should you have questions concerning the content of this communication you may contact me by 'Reply' or by calling 410-313-2691.

Robert Bricker, CPSS, REHS/R.S.

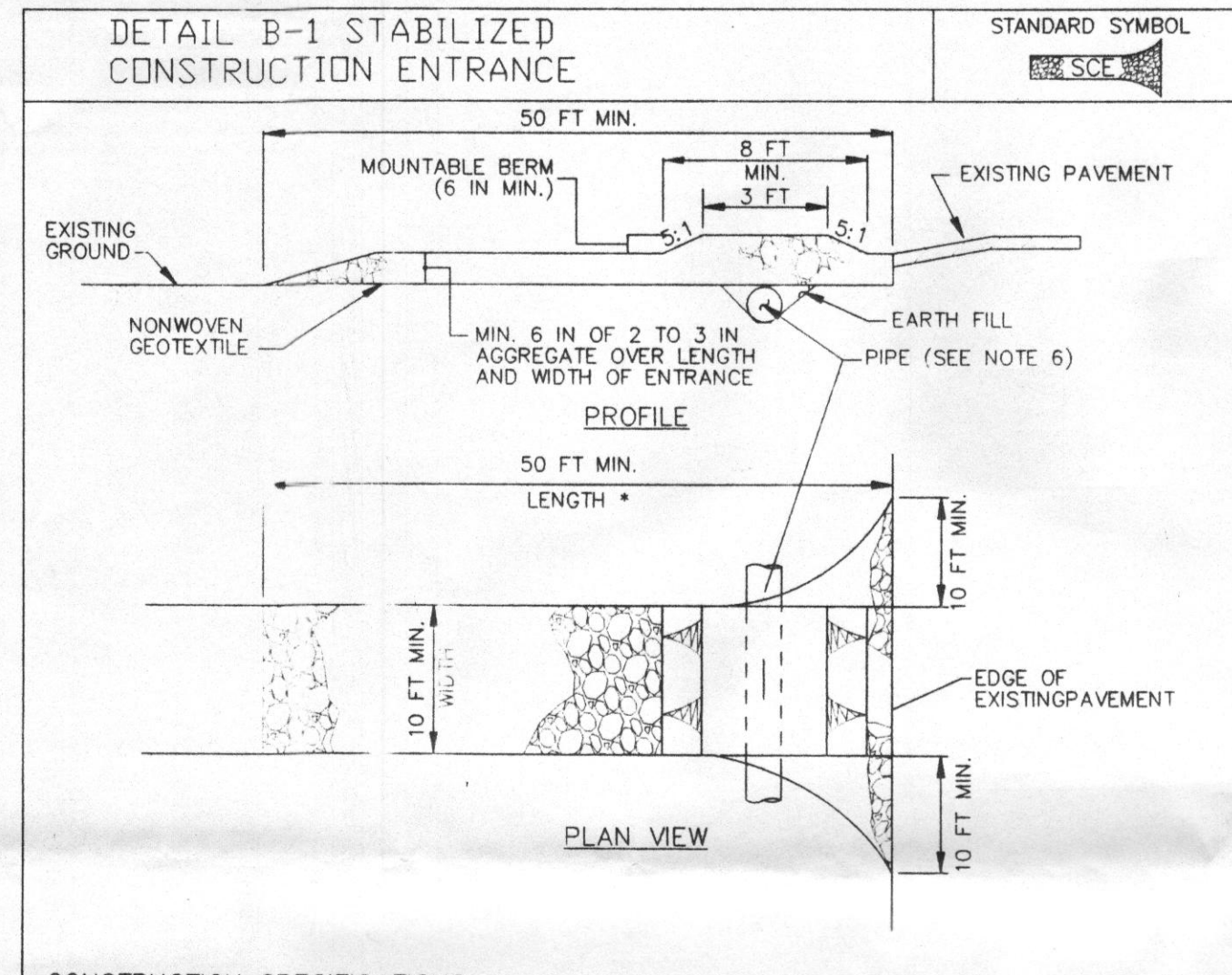
Copy: John R. Robinson, Howard Soil Conservation District

See the attached spec sheet for minimum spacing requirements

CERENSBERGER
AND Family LLC
BUILDER

Joel Rensberger, Owner
Phone (301) 370-4042
joel@cerensbergerbuilder.com
www.cerensbergerbuilder.com

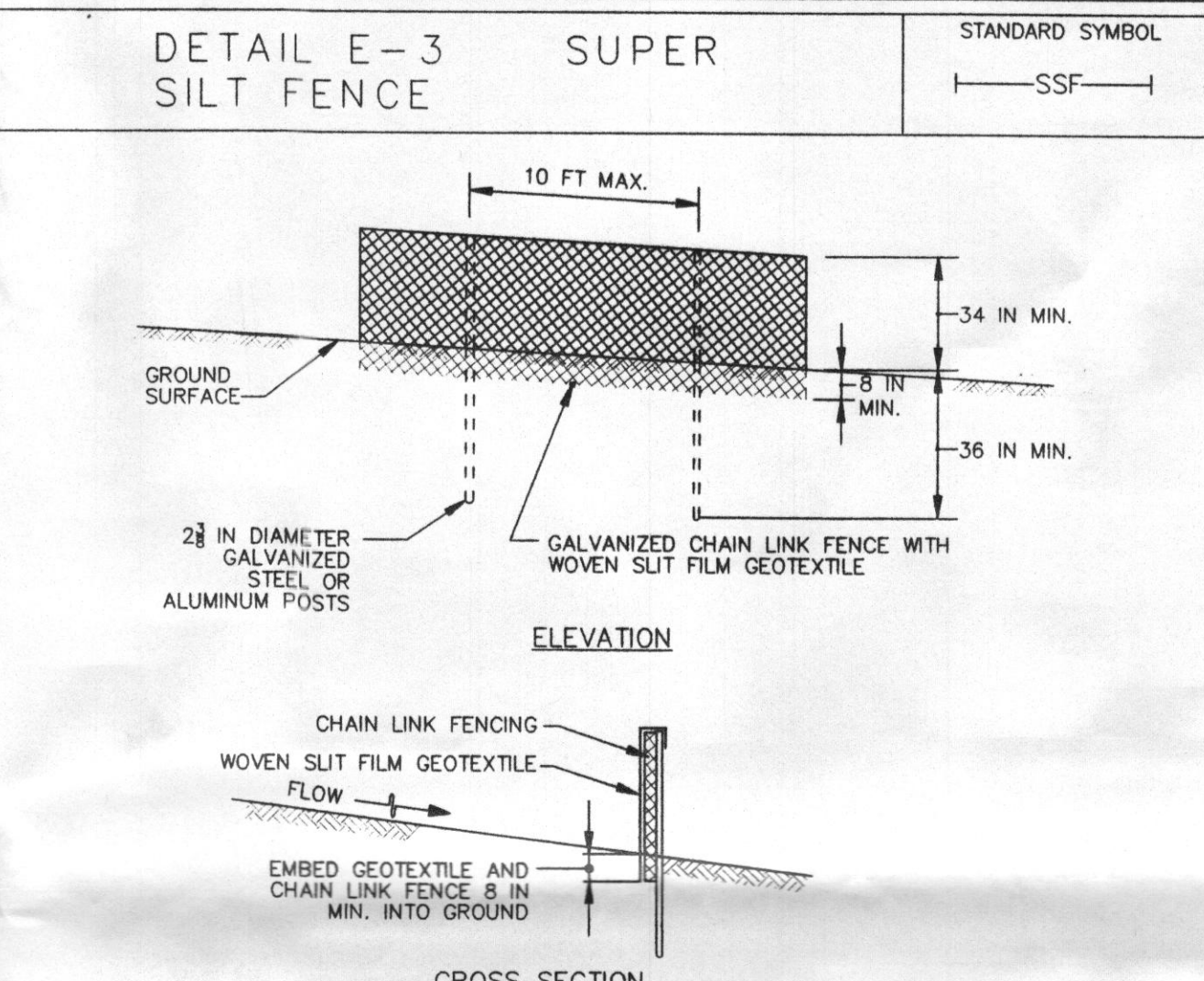
1 South Main St.
Woodsboro, MD 21798
MHIC# 4286161
MHBR# 6677



CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (+30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE TO 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5-1/2" SLOES TO A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREFARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 1 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. REMOVE ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

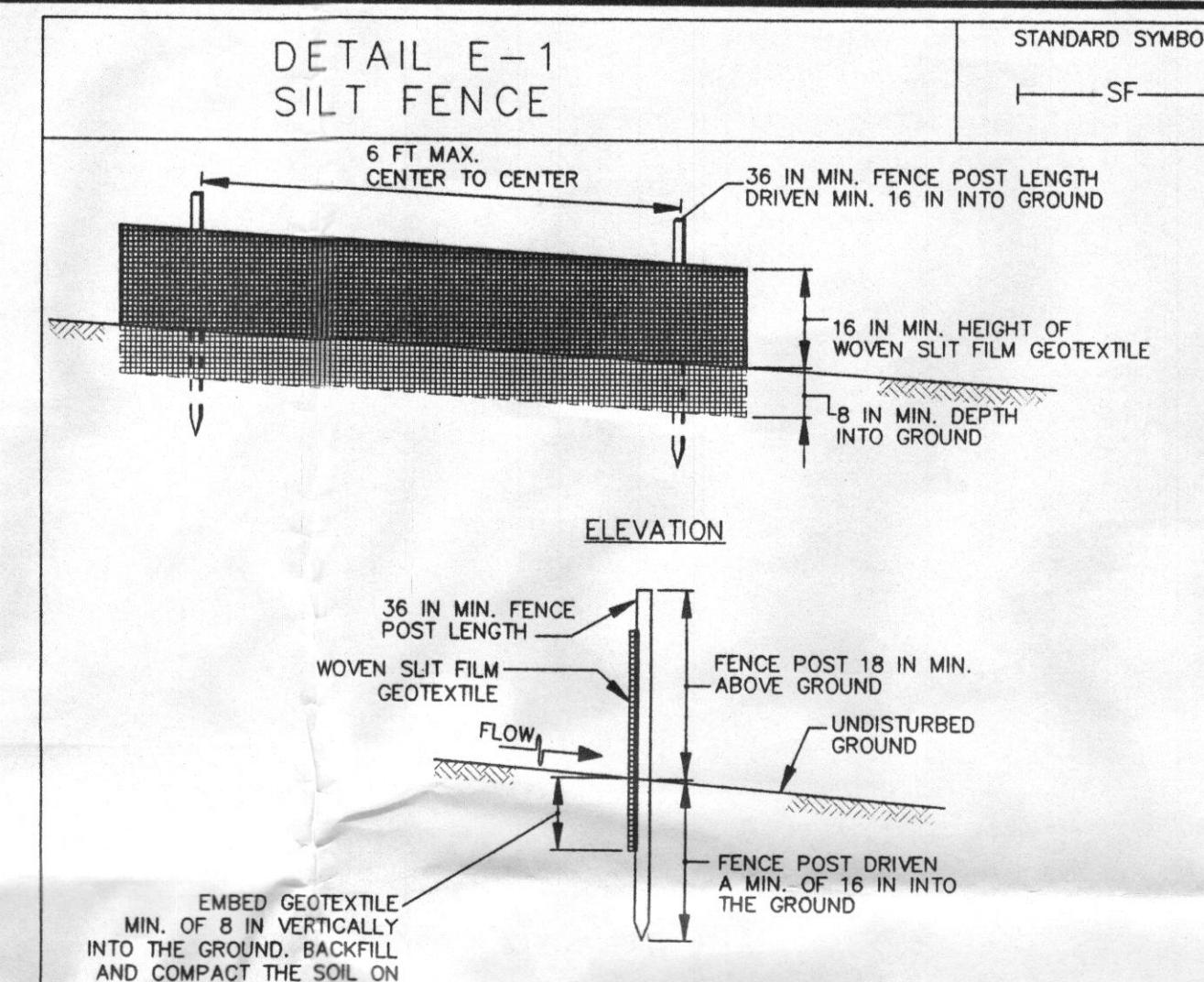
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



CONSTRUCTION SPECIFICATIONS

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (24 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MINIMUM SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

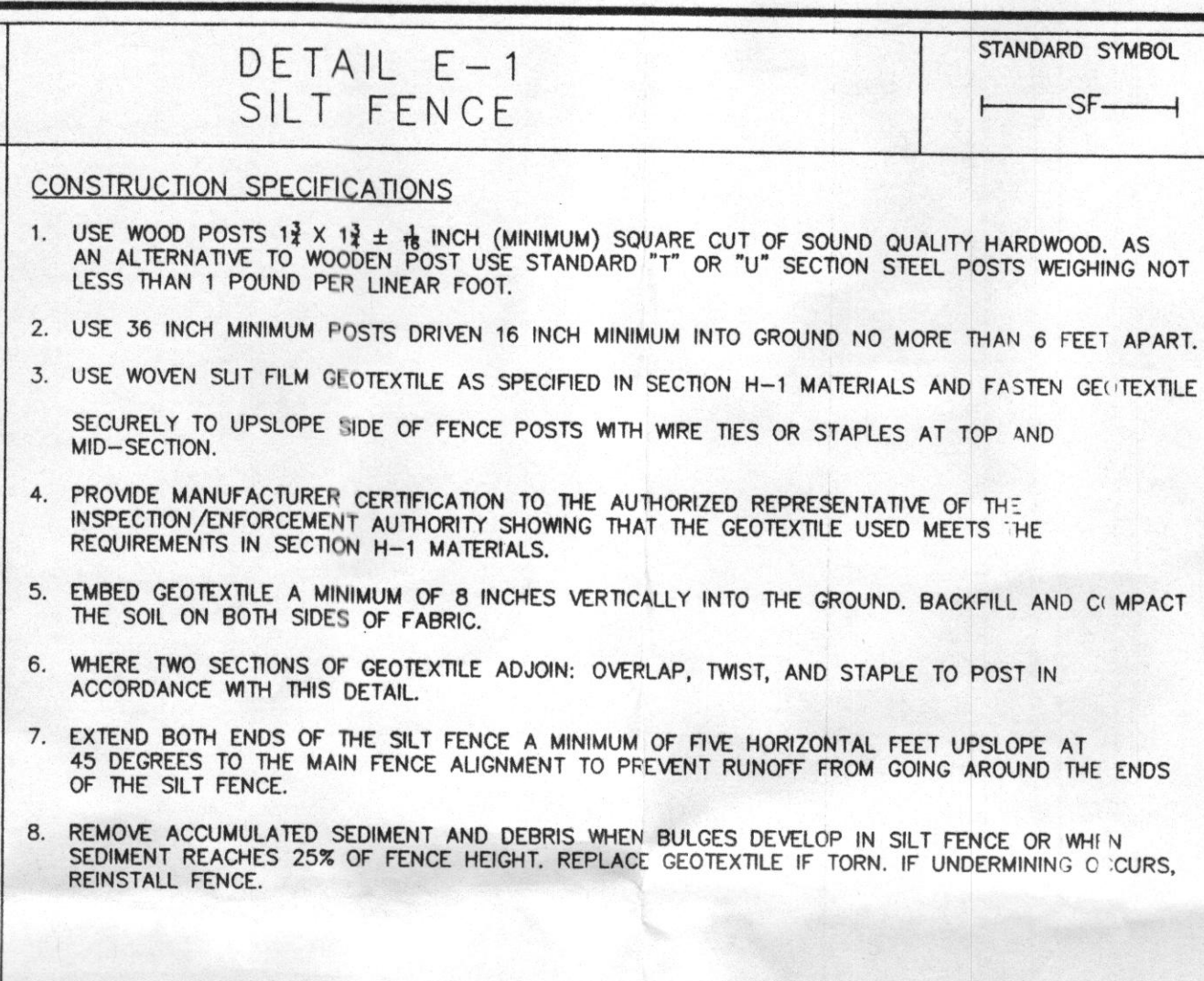
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



CONSTRUCTION SPECIFICATIONS

- USE WOOD POSTS 12 X 12 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION



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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION

SEQUENCE OF CONSTRUCTION

- PRIOR TO CLEARING TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE APPROPRIATE AGENCY.
- CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES ONLY.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, AND SILT FENCE.
- REMAINING CLEARING AND GRUBBING WITHIN INSTALLED PERIMETER CONTROLS.
- BEGIN HOUSE CONSTRUCTION AND INSTALL UTILITIES AS NEEDED.
- FINISH HOUSE CONSTRUCTION, FINE GRADE SITE, INSTALL LANDSCAPING AND DRIVEWAY AS NEEDED.
- INSTALL DRYWELLS, AND GUTTER DRAIN FILTERS ON DOWNSPOUTS LEADING TO DRYWELLS.
- PERMANENTLY STABILIZE ALL DISTURBED AREAS.
- WITH APPROVAL FROM THE APPROPRIATE AUTHORITY, REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

Definition: A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose: To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies: Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria:

- The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- Runoff from the stockpile area must drain to a suitable sediment control practice.
- Access the stockpile area from the upgrade side.
- Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary saddle or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
- Where runoff concentrates along the toe of the stockpile, an appropriate erosion/sediment control practice must be used to intercept the discharge.
- Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance: The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition: To stabilize disturbed soils with permanent vegetation.

Purpose: To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies: Exposed soils where ground cover is needed for 6 months or more.

Criteria:

- Seed Mixtures
 - General Use
 - Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
 - Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
 - For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.
 - For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
 - Turfgrass Mixtures
 - Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
 - Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
 - Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore.
 - Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
 - Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.
 - Ideal Times of Seeding for Turf Grass Mixtures
 - Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)
 - Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)
 - Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
- Turf areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.
- If soil moisture is deficient, supply new seedlings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

Definition: To stabilize disturbed soils with vegetation for up to 6 months.

Purpose: To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies: Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria:

- Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
- For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
- When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3A.1.b and maintain until the next seeding season.

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and its revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: 1) 3 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; 2) 7 days for all interior graded areas on the project site.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL or permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
Total Area of Site 3.00 Acres
Area Disturbed 0.913 Acres
Area to be roofed or paved 0.179 Acres
Area to be vegetatively stabilized 0.676 Acres
Total Cut 55.3 ± Cu. Yds.
Total Fill 781 ± Cu. Yds.
- Offsite waste/borrow area location: Virgin cut imported from New Market, MD
- Any sediment control practice that is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.
- Any changes or revisions to the sequence of construction must be reviewed and approved by the plan approval authority prior to proceeding with construction.
- A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority. Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.

PERMANENT SEEDING SUMMARY

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)			Lime Rate
					N	P ₂ O ₅	K ₂ O	
1	TALL FESCUE Lolium arundinaceum	60	Mar 1 to May 15; Aug 15 to Oct 15	1/4 - 1/2 in	45 pounds per acre (1.0 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
2	Kentucky Bluegrass Poa pratensis	40	Mar 1 to May 15; Aug 15 to Oct 15	1/4 - 1/2 in				

TEMPORARY SEEDING SUMMARY

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
1	Lolium Perenne SSP. Multiflorum	40	Mar 1 to May 15; Aug 1 to Sep 30	0.5	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)

HOWARD COUNTY CONSERVATION DISTRICT

DEVELOPMENT PLAN APPROVED

DATE: 2/19/15

OWNER:
STEVEN & CARYN CLARKE
1229 ENMAUS ROAD
WOODBINE MD, 21797
(410) 419-0591

DEVELOPER:
CE RENSBERGER & FAMILY,
BUILDER
C/O JOEL RENSBERGER
1 S. MAIN STREET
WOODSBORO, MD 21798
(301) 370-4042

LAVELLE & ASSOCIATES INCORPORATED
PI ANIMATED SURVEYORS

3722 Woodbury Lane, Frederick, Maryland 21704
TEL: (301) 695-9722, FAX: (301) 695-9766

MORGAN STATION
SITUATED ON IRON RAIL COURT
1/4 ACRES, 1.5 BASE
44th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FIELD DATE: SEPT. 3, 2014

PLAN DATE: FEB. 11, 2015

SCALE: 1" = 40'

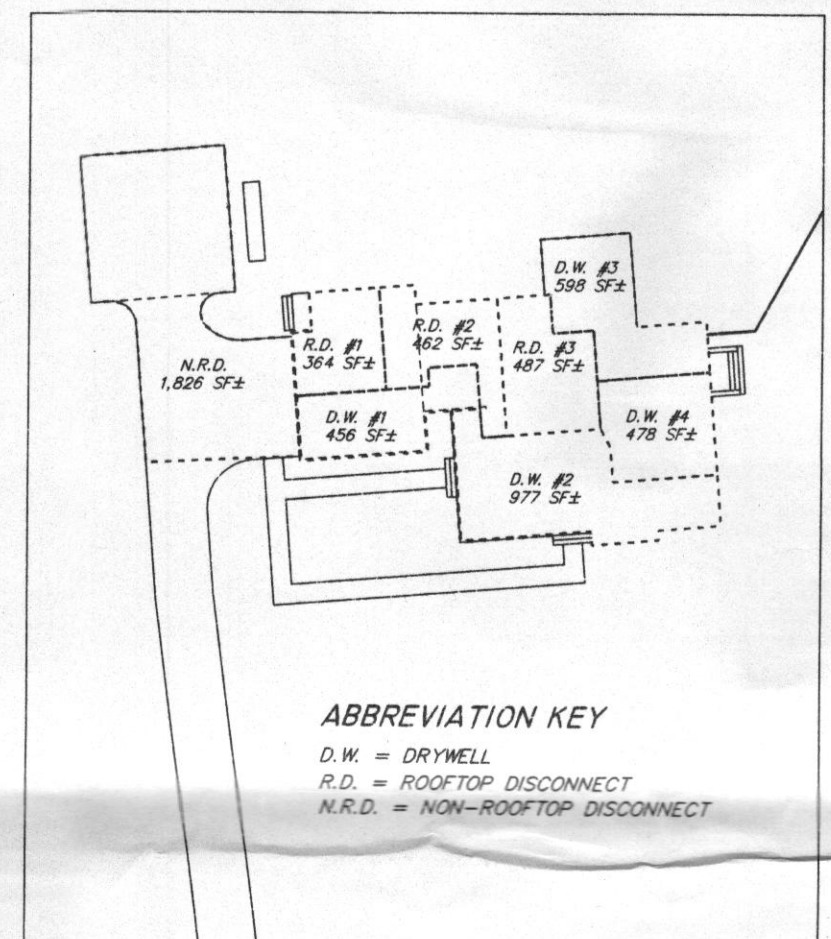
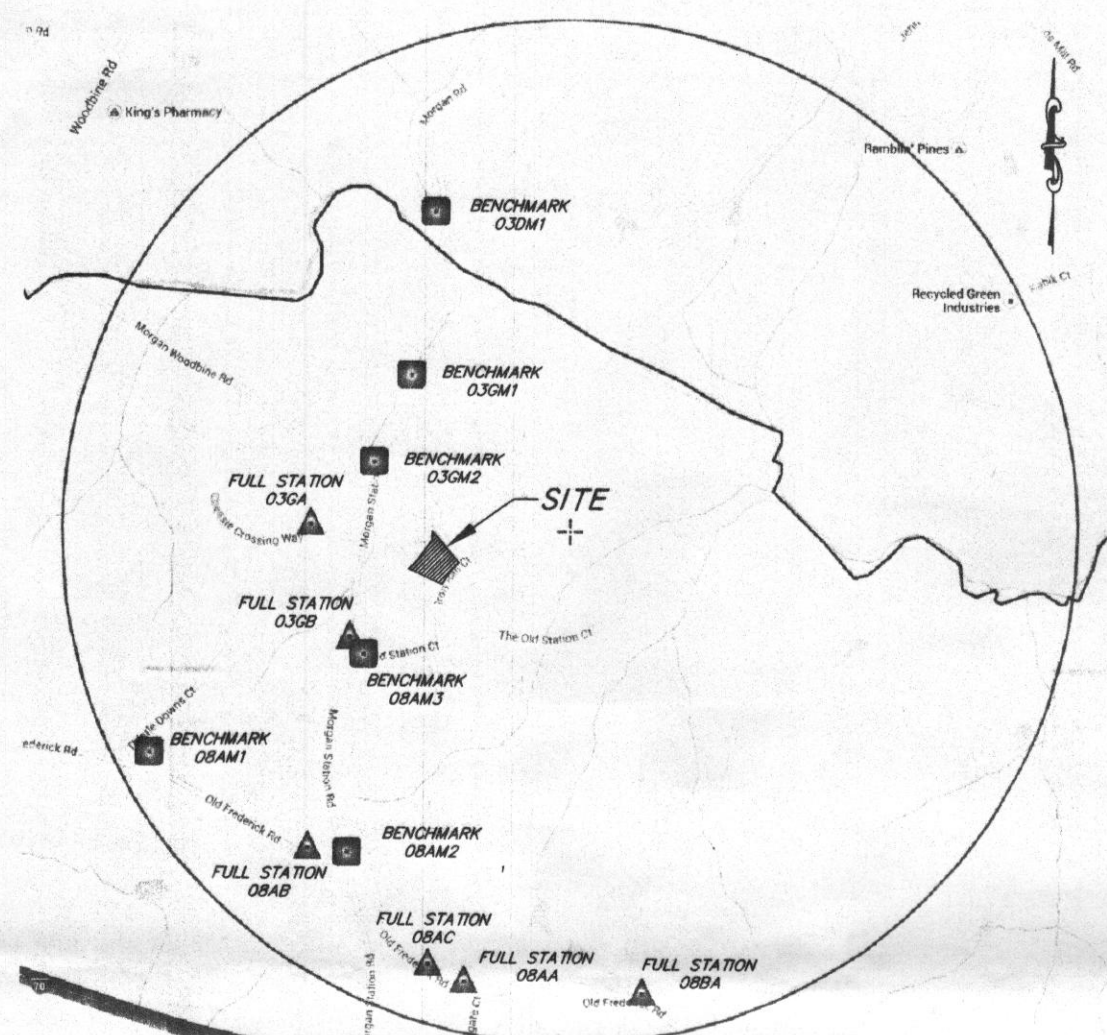
PROJ. No. 14-103

FILE: L33 Morgan Station Lot 3.dwg

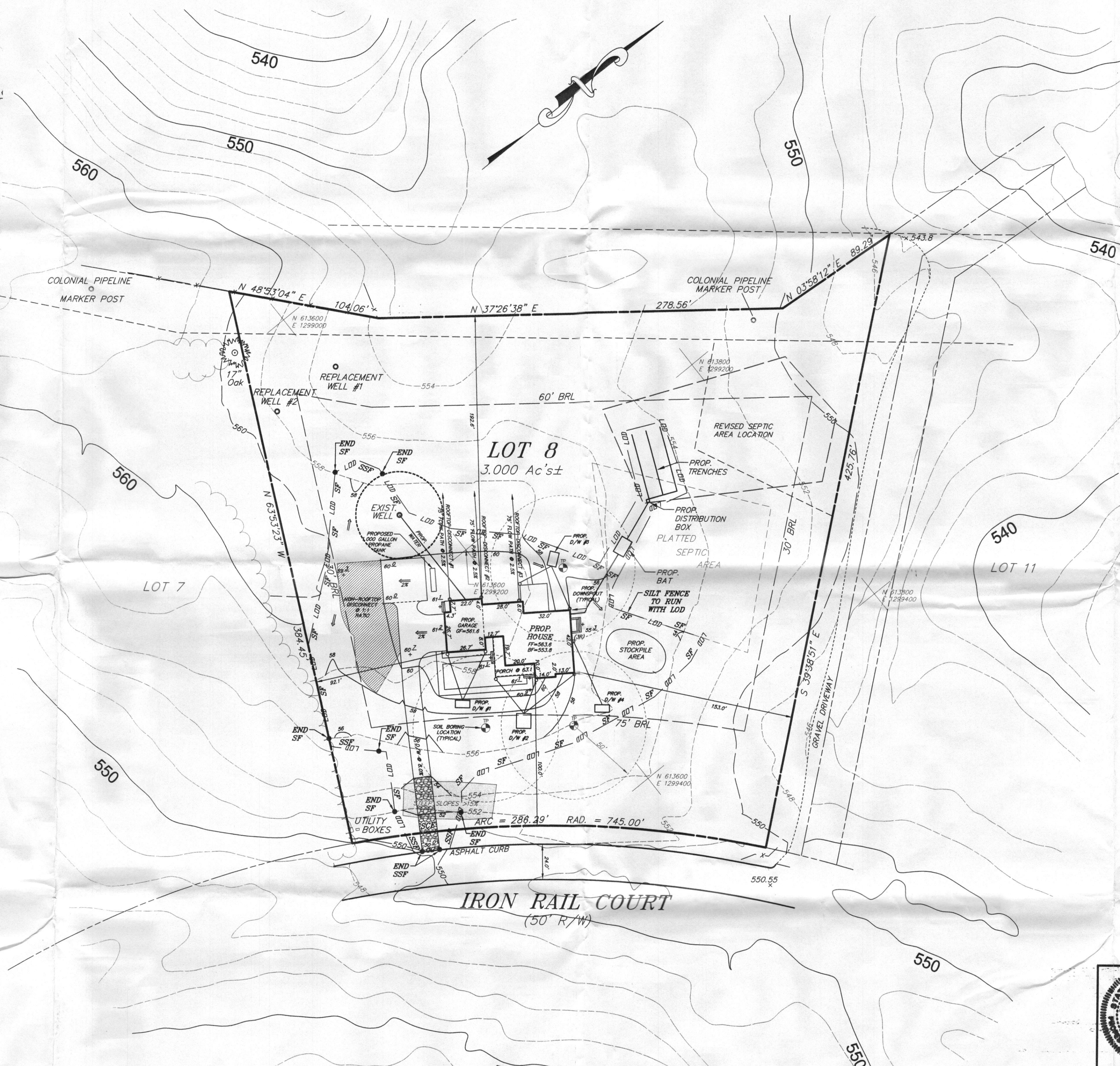
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PAGE: 2 OF 2

SHEET INDEX
 1 - CUSTOM PLAN - SITE PLAN
 2 - CUSTOM PLAN - SEDIMENT CONTROL DETAILS



ABBREVIATION KEY
 D.W. = DRYWELL
 R.D. = ROOFTOP DISCONNECT
 N.R.D. = NON-ROOFTOP DISCONNECT



GENERAL NOTES

- PROPERTY ZONED: RC-BED - RURAL RESIDENTIAL
- MAJOR WATERSHED: 02130908
- HORIZONTAL DATUM: NAD83, VERTICAL DATUM: NAVD83 - TOPOGRAPHY SHOWN INSIDE OF PROPERTY LIMITS WAS FIELD LOCATED BY LAVELLE & ASSOCIATES INC. - TOPOGRAPHY SHOWN OUTSIDE OF PROPERTY LIMITS IS FROM HOWARD COUNTY SPATIAL DATA (GIS), TOPOGRAPHY (CONTOURS) GRID 03, AND VARIES SLIGHTLY (1% VERTICAL DIFFERENCE) FROM THE FIELD RUN TOPOGRAPHY SHOWN INSIDE THE PROPERTY LIMITS.
- NEW SEPTIC AREA PULLED FROM SKETCH PROVIDED BY OWNER AND IS BELIEVED TO BE FROM THE RESULT OF A PERC TEST REPORT PROVIDED BY HOWARD COUNTY HEALTH DEPARTMENT, DATED SEPTEMBER 14, 2012.
- PREMISES ADDRESS NOT ASSIGNED.

DESIGN NARRATIVE

THE PROPOSED IMPROVEMENTS HAVE BEEN DESIGNED WITH THE LAYOUT OF THE LOT IN MIND. THE DESIGN ATTEMPTS TO MIMIC THE NATURAL EXISTING TOPOGRAPHY OF THE LOT IN THE PROPOSED CONDITION AND EFFECTIVELY MINIMIZES THE GRADING NECESSARY. THIS REDUCTION IN GRADING IN COMBINATION WITH THE PROPOSED SEDIMENT CONTROL DEVICES WILL HELP TO PROTECT NATURAL AREAS DOWNSTREAM OF THE SITE.

ENVIRONMENTAL SITE DESIGN (ESD) HAS BEEN ACHIEVED WITH A COMBINATION OF DISCONNECT AND STRUCTURAL PRACTICES. ROOFTOP & NON-ROOFTOP DISCONNECT AREAS HAVE BEEN PROPOSED WHERE THE DOWNSTREAM SLOPE IS < 5% WITH THE REMAINDER OF THE ESDV COMING FROM THE PROPOSED DRYWELLS.

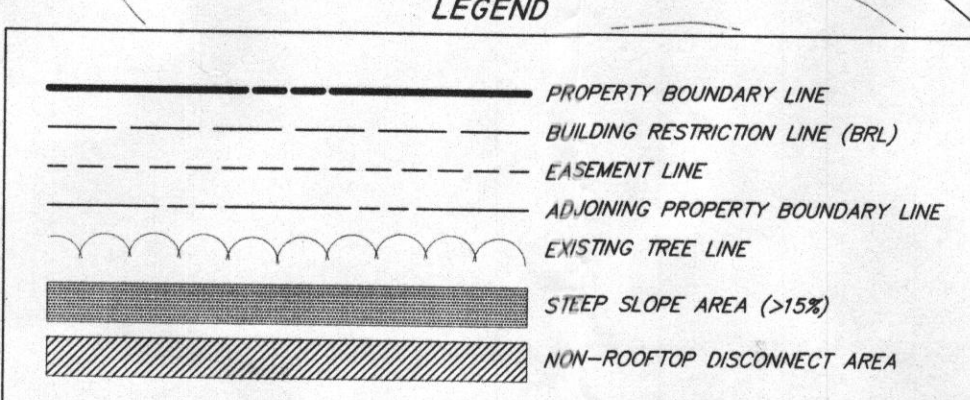
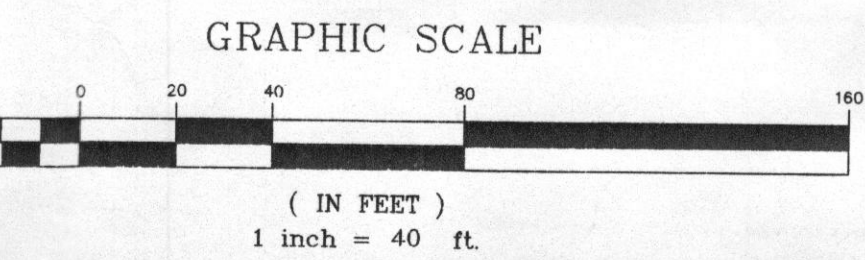
SITE ANALYSIS DATA SHEET

- WETLANDS: PER NATIONAL WETLANDS INVENTORY, NO WETLANDS EXIST ON SITE.
- FLOODPLAINS: PER FIRM MAP NUMBER 24027003D, WITH AN EFFECTIVE DATE OF NOVEMBER 6, 2013, THE PROPERTY IS IN "ZONE X", WHICH INDICATES THAT IT IS OUTSIDE OF THE SFHA.
- FORESTS: NO TREES FOUND ON LOT.
- STEEP SLOPES: STEEP SLOPES ENCOMPASS APPROXIMATELY 1,500 SF AND HAVE BEEN SHOWN.
- ERODIBLE SOILS: THE SITE CONSISTS OF G2a - GLENELG LOAM (2-8 PERCENT SLOPES) SOILS, BOTH ARE HYDROLOGIC SOIL GROUP B SOILS AND ARE NOT HIGHLY ERODIBLE SOILS (PER NRCS SSURGO DATA 9/21/2006).
- TOTAL PROJECT AREA: 3,000 AC.±
- LOD AREA (EXCLUDING SEPTIC): 38,767 S.F.±
- PROPOSED SITE USE: RESIDENTIAL
- GREEN CROWN AREA: 122,870 S.F.± OR 2.82 AC.±
- IMPERVIOUS AREA: 7,810 S.F.±

ESD REQUIREMENTS

ESDV REQUIRED: 743 CUBIC FEET
 ESDV PROVIDED: 773.5 CUBIC FEET

- ROOFTOP DISCONNECT: 1,313 S.F. @ 1:1 RATIO = 103.95 STORAGE CREDIT
- NON-ROOFTOP DISCONNECT: 1,826 S.F. @ 1:1 RATIO = 144.56 STORAGE CREDIT
- DRYWELLS STORAGE: 525 C.F.
- D.W. #1: 5' WIDE x 10' LONG x 5' DEEP @ 40% VOID = 100 CUBIC FEET STORAGE
- D.W. #2: 10' WIDE x 10' LONG x 5' DEEP @ 40% VOID = 200 CUBIC FEET STORAGE
- D.W. #3: 6.25' WIDE x 10' LONG x 5' DEEP @ 40% VOID = 125 CUBIC FEET STORAGE
- D.W. #4: 5' WIDE x 10' LONG x 5' DEEP @ 40% VOID = 100 CUBIC FEET STORAGE



GP-15-052
 FOR THE HOWARD SOIL CONSERVATION DISTRICT

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

HOWARD SOIL CONSERVATION DISTRICT _____ DATE _____



ENGINEER CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Dustin M. Lavelle 2/20/15
 DUSTIN M. LAVELLE DATE
 REG. No. 21701, EXP. 6/11/2015

OWNERS:
 STEVEN & CARYN CLARKE
 1229 EMMAUS ROAD
 WOODBINE, MD, 21797
 (410) 419-0591

DEVELOPER:
 CE REINSEBERGER & FAMILY,
 BUILDER
 C/O IDEL REINSEBERGER
 1 S. MAIN STREET
 WOODSBORO, MD 21798
 (301) 370-4042

DEVELOPER CERTIFICATE

"We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Joel Reinsberger, DEVELOPER
 DEVELOPER (NAME & TITLE PRINTED)
 DATE 2/20/15

REVISIONS

LAVELLE & ASSOCIATES INCORPORATED
 PLANNERS • SURVEYORS

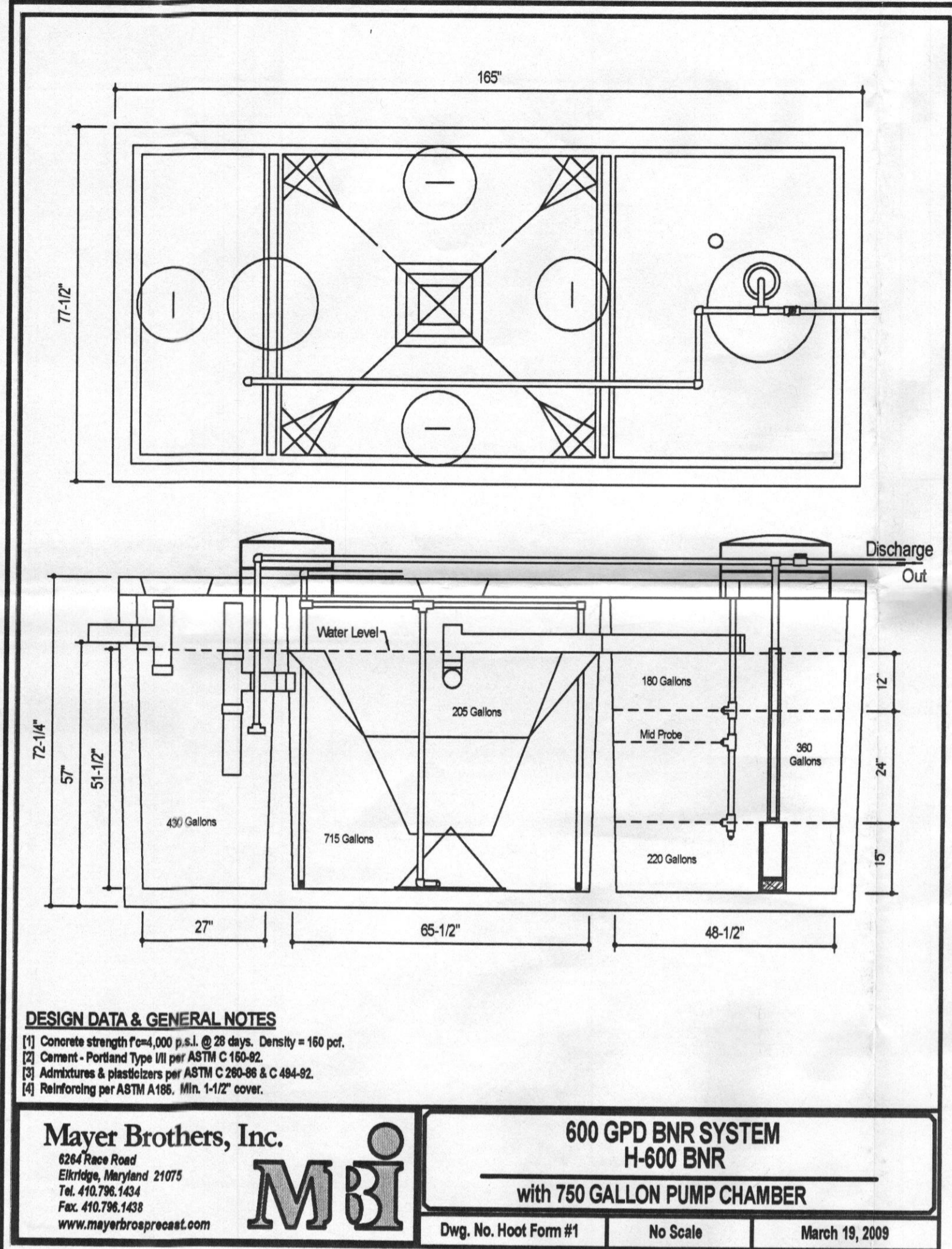
5332 Industry Lane, Frederick, Maryland, 21704
 TEL: (301) 695-9722, FAX: (301) 695-9766

CUSTOM PLAN - SITE PLAN
 LOT 8

MORGAN STATION

SITUATED ON IRON RAIL COURT
 TAX MAP 3, PARCEL 44
 ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FIELD DATE: SEPT. 3, 2014
 PLAN DATE: FEB. 11, 2015
 SCALE: 1" = 40'
 PROJ. No. 14-103
 FILE: LP3\Morgan Station
 DRAWN: JCA / DML
 PAGE: 1 OF 2



DESIGN DATA & GENERAL NOTES

- Concrete strength 4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Current - Portland Type III per ASTM C-150-02.
- Reinforcing per ASTM A-108, Min. 1-1/2" cov.

Mayer Brothers, Inc.
 624 Trace Road
 Elkridge, Maryland 21075
 Tel. 410.786.1434
 Fax. 410.786.1433
 www.mayerbrothers.com

**600 GPD BNR SYSTEM
 H-600 BNR
 with 750 GALLON PUMP CHAMBER**

Dwg. No. Hoot Form #1 No Scale March 19, 2009

SEWAGE DISPOSAL SYSTEM DATA (4 BDRM):
 600 GPD BNR SYSTEM H-600BNR WITH 750 GALLON PUMP CHAMBER

PROPOSED INVERT AT FOUNDATION WALL: 551.80'

1. BNR SYSTEM
 EX. GRADE OVER TANK: 554.76'
 PROPOSED GRADE OVER TANK: 554.76'
 INVERT IN: 550.49' INVERT OUT: 552.26'

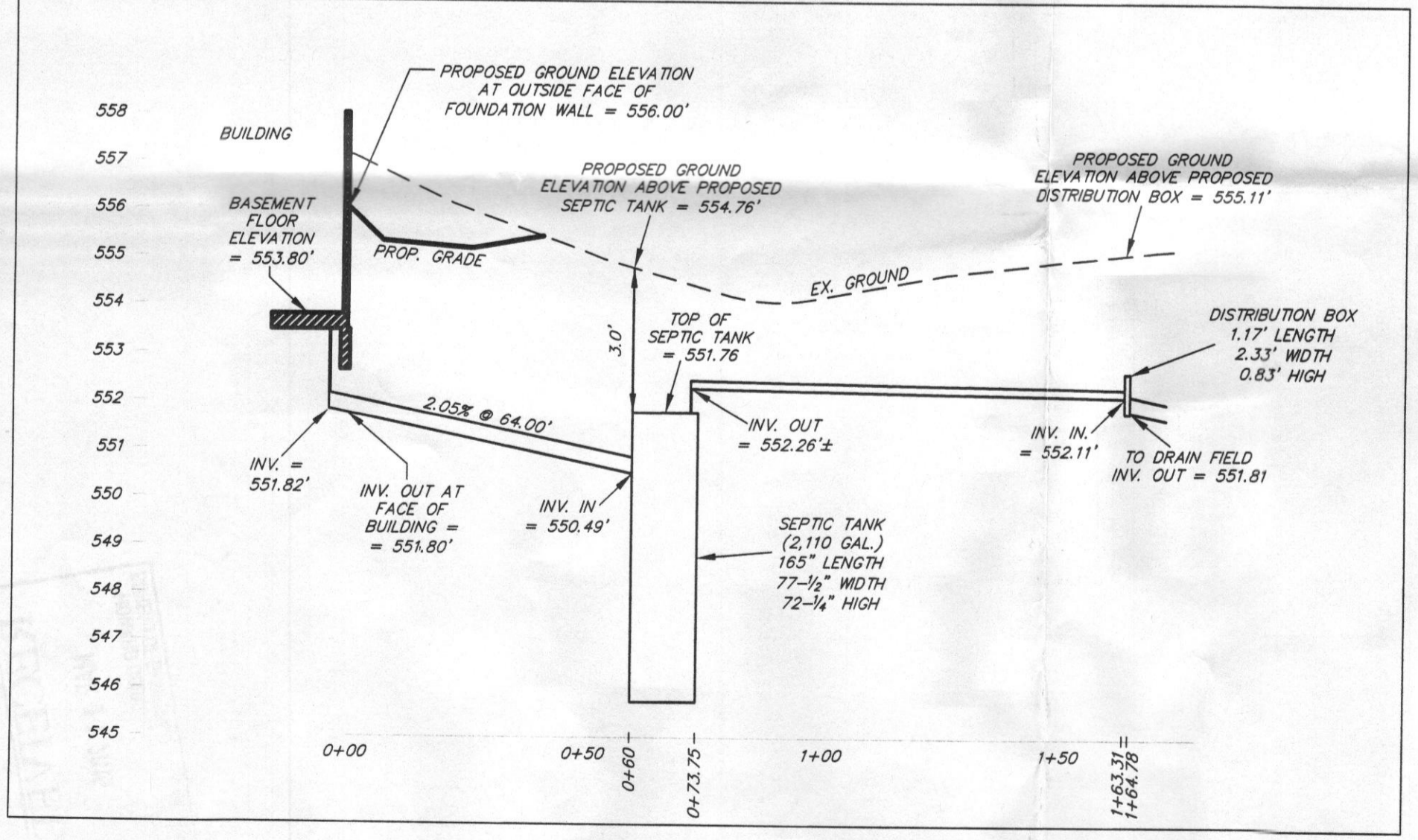
2. DISTRIBUTION BOX:
 EXISTING GRADE OVER BOX: 555.11'
 PROPOSED GRADE OVER BOX: 555.11'
 INVERT IN: 552.11' INVERT OUT: 551.81'

3. TRENCH DESIGN
 (4 BDRM x 150 GPD/BNR = 600 GPD)
 600 GPD / 0.8 ACP / 1/4" = 750 SF
 USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
 10' MIN. SPACING BETWEEN TRENCH EDGES
 250 SF / 3" WIDTH = 83.3 LF x 0.55 = 138 MIN. TRENCH
 USE 3' 48" LONG TRENCHES = 138 LF

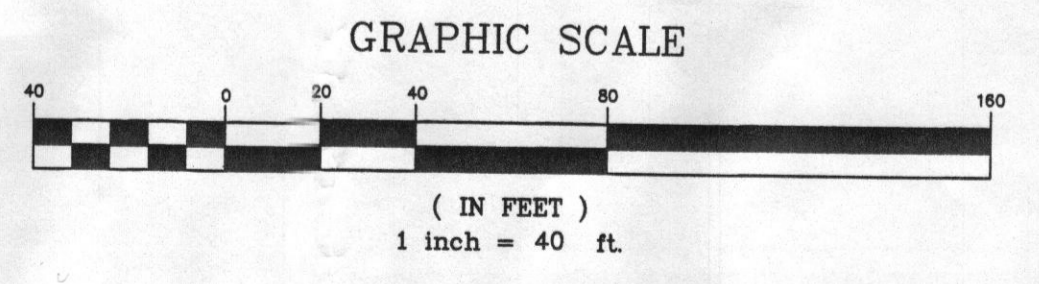
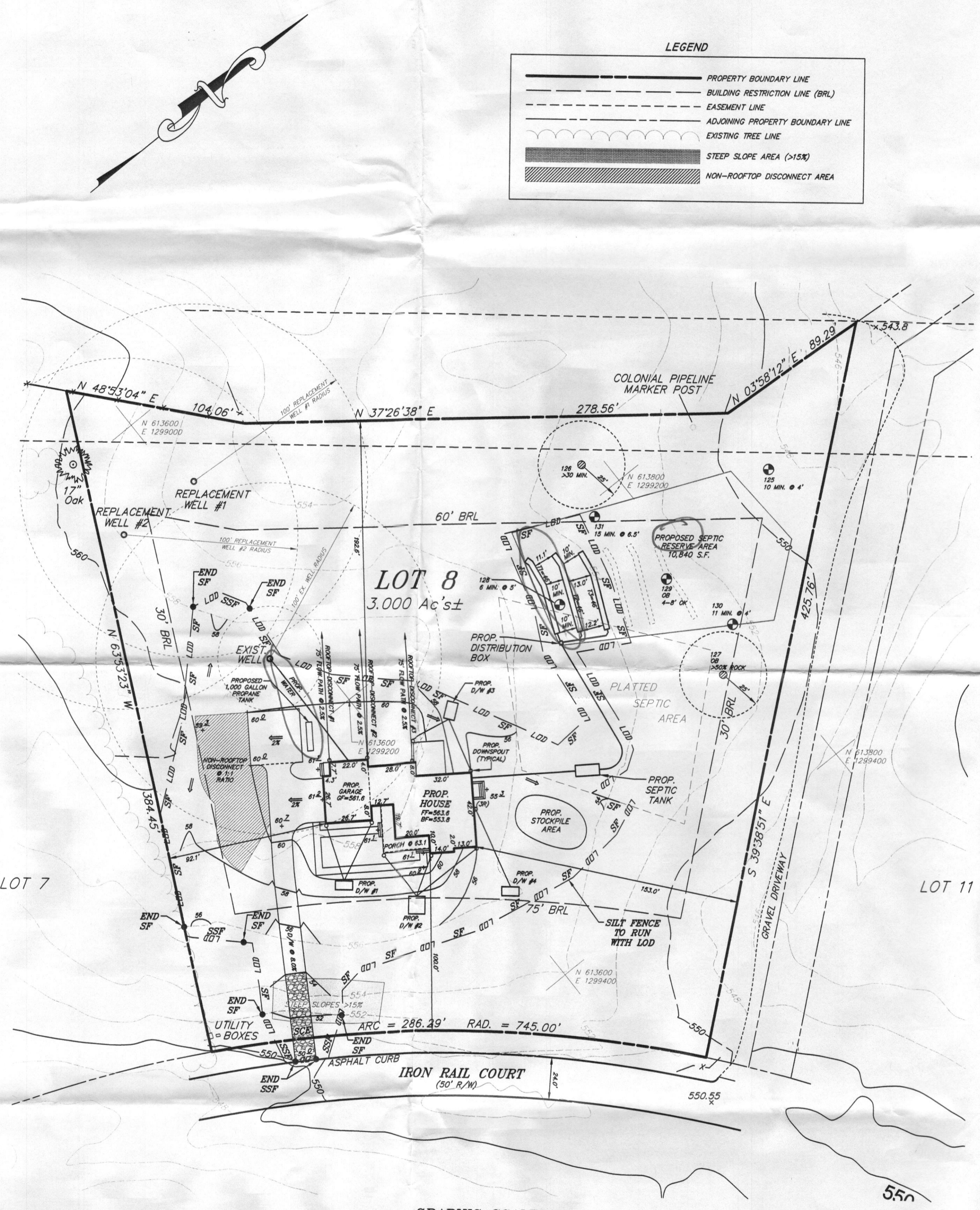
TRENCH DATA:
 BOTTOM MAX. DEPTH (8')

TRENCH 1 (T1):
 GROUND ABOVE = 555.12' GROUND ABOVE = 554.07'
 INV. IN = 551.12' INV. IN = 550.07'
 BOTTOM TRENCH = 547.12' BOTTOM TRENCH = 546.07'

TRENCH 2 (T2):
 GROUND ABOVE = 554.62' GROUND ABOVE = 554.62'
 INV. IN = 550.62' INV. IN = 550.62'
 BOTTOM TRENCH = 546.62'

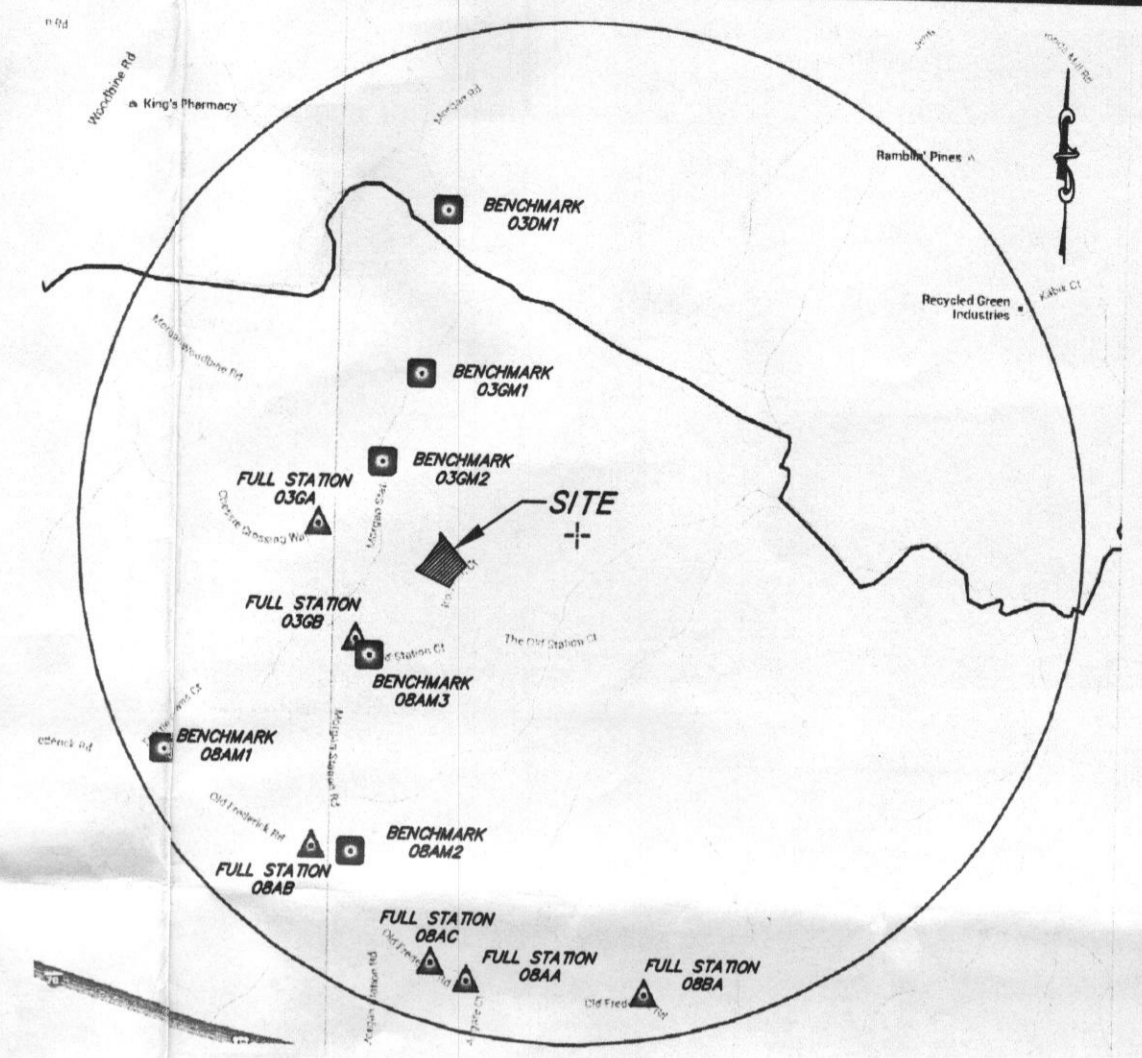


PROFILE
 H.SCALE: 1" = 30'
 V.SCALE: 1" = 3'



LEGEND

- PROPERTY BOUNDARY LINE
- BUILDING RESTRICTION LINE (BRL)
- EASEMENT LINE
- ADJOINING PROPERTY BOUNDARY LINE
- EXISTING TREE LINE
- STEEP SLOPE AREA (>15%)
- NON-ROOFTOP DISCONNECT AREA



VICINITY MAP
 SCALE: 1" = 2,000'±
 ADC MAP/GRID No.: 4692-04

- GENERAL NOTES**
- PROPERTY ZONED: RC-DEO - RURAL RESIDENTIAL
 - PLAT REFERENCE: PLAT No. 03466
 - HORIZONTAL DATUM: NAD83, VERTICAL DATUM: NAVD83 - TOPOGRAPHY SHOWN INSIDE OF PROPERTY LIMITS WAS FIELD LOCATED BY LAVELLE & ASSOCIATES, INC. TOPOGRAPHY SHOWN OUTSIDE OF PROPERTY LIMITS IS FROM HOWARD COUNTY SPATIAL DATA (GIS), TOPOGRAPHY (CONTOURS) GRID 03, AND VARIES SLIGHTLY (1'-1/2" VERTICAL DIFFERENCE) FROM THE FIELD RUN TOPOGRAPHY SHOWN INSIDE THE PROPERTY LIMITS.
 - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE LABELLE & ASSOC. INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
 - THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410) 313-1881 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - TOTAL LIMIT OF DISTURBANCE: 43,451 S.F. or 0.997 AC.
 - STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED BY PREVIOUSLY APPROVED ENVIRONMENTAL CONCEPT PLAN.
 - ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
 - DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE DESIGN CONSULTANT (LAVELLE & ASSOC. INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
 - THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - PROPOSED SEPTIC RESERVE AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS FOR ALL PROPOSED STRUCTURES AND/OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
 - EXISTING WELL HAS BEEN FIELD LOCATED BY LAVELLE & ASSOC. INC.
 - BUILDING SETBACKS (B.R.L.'S) SHOWN HEREON HAVE AN ACCURACY OF ± 0.1'.

PROFESSIONALS' REVIEW STATEMENT

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE No. 21701, EXPIRATION DATE 06-11-2015.

DUSTIN M. LAVELLE
 REG. No. 21701, EXP. 6/11/2015

3/11/2015 DATE

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

DIRECTOR _____ DATE _____

PROFESSIONAL ENGINEER _____ DATE _____

OWNERS:
 STEVEN & CARYN CLARKE
 1229 EMMAUS ROAD
 WOODBINE MD, 21797
 (410) 419-0591

DEVELOPER:
 CE RENSBERGER & FAMILY,
 BUILDER
 C/O JOEL RENSBERGER
 1 S. MAIN STREET
 WOODSBORO, MD 21798
 (301) 370-4042

FIELD DATE: SEPT. 3, 2014

PLAN DATE: MAR. 6, 2015

SCALE: 1" = 40'

PROJ. No. 14-103

FILE: Morgan Station Lot 8.dwg

DRAWN: JCA / DML

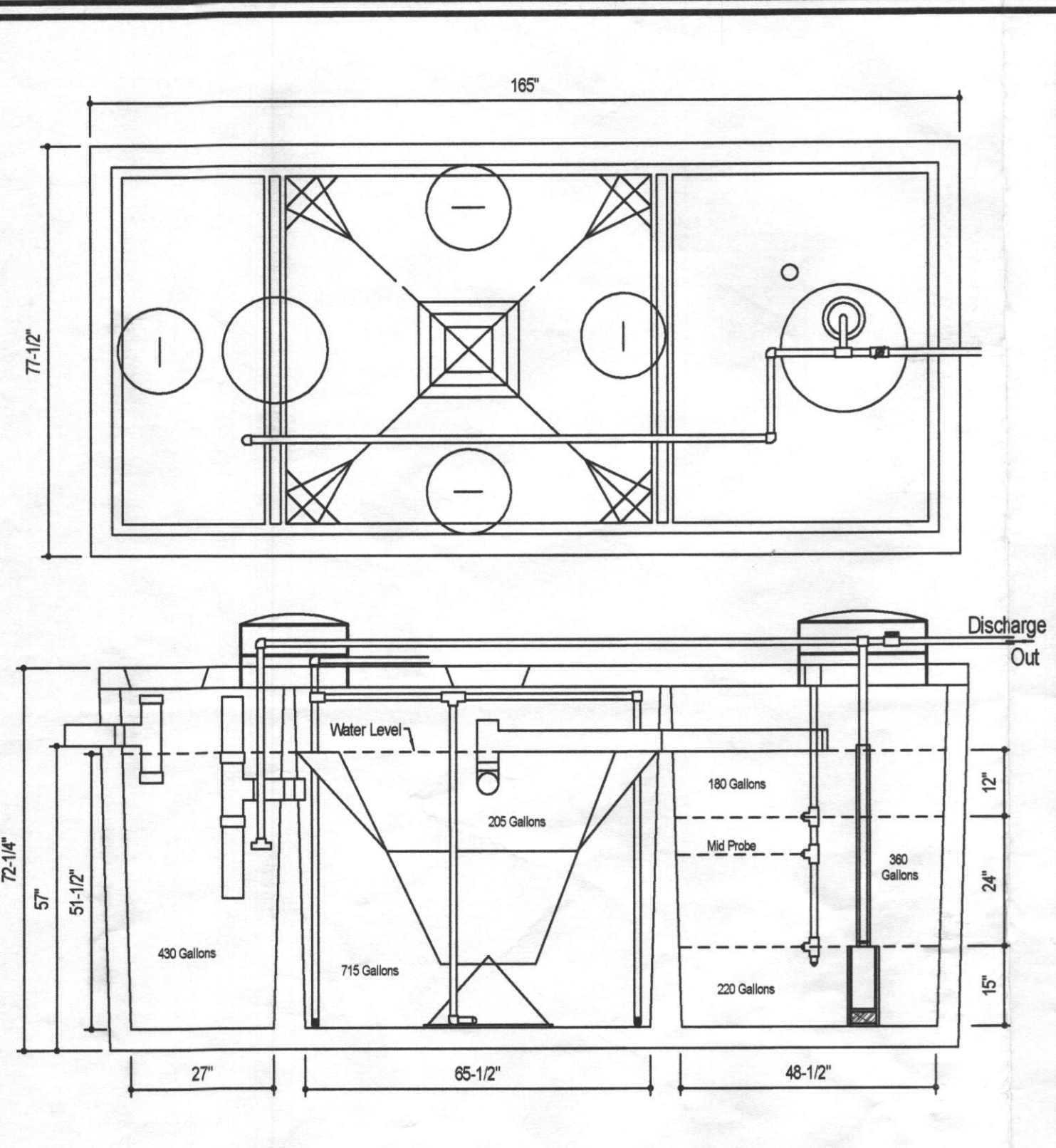
PAGE: 1 OF 1

LAVELLE & ASSOCIATES INCORPORATED
 PLANNERS • SURVEYORS

5732 Industry Lane, Frederick, Maryland 21704
 TEL: (301) 695-9722; FAX: (301) 695-9766

MORGAN STATION
 LOT 8
 SITE PLAN FOR BAT INSTALLATION

PLAT No. 03466
 TAX No. 04-347439
 STATE MAP RECORD PACKAGE
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



DESIGN DATA & GENERAL NOTES

- Concrete strength F_{cm} = 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 484-92.
- Reinforcing per ASTM A108, Min. 1-1/2" cover.

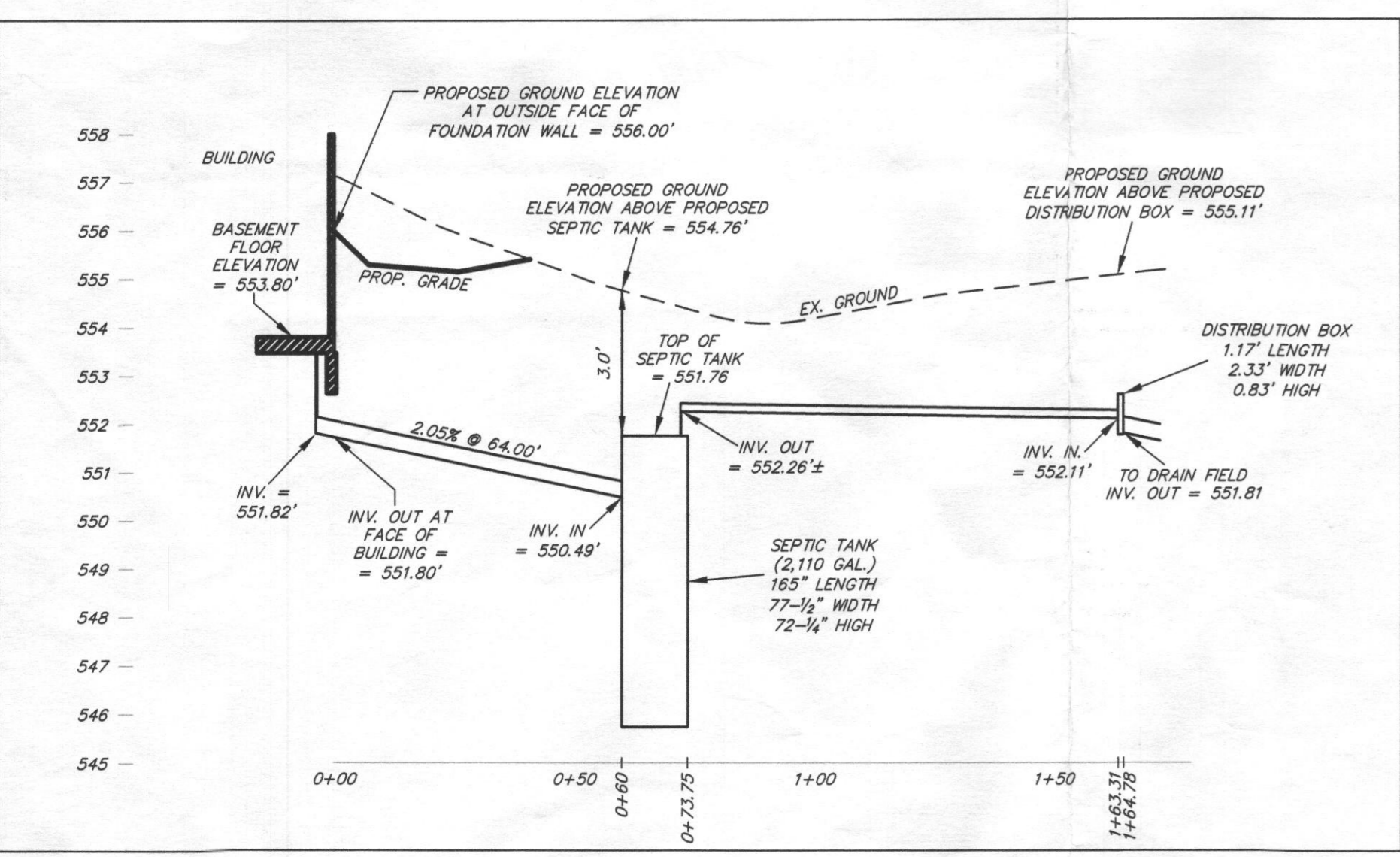
Mayer Brothers, Inc.
 8254 Reisterstown Road
 Elkridge, Maryland 21075
 Tel. 410.776.1434
 Fax. 410.776.1438
 www.mayerbrothers.com

**600 GPD BNR SYSTEM
 H-600 BNR
 with 750 GALLON PUMP CHAMBER**

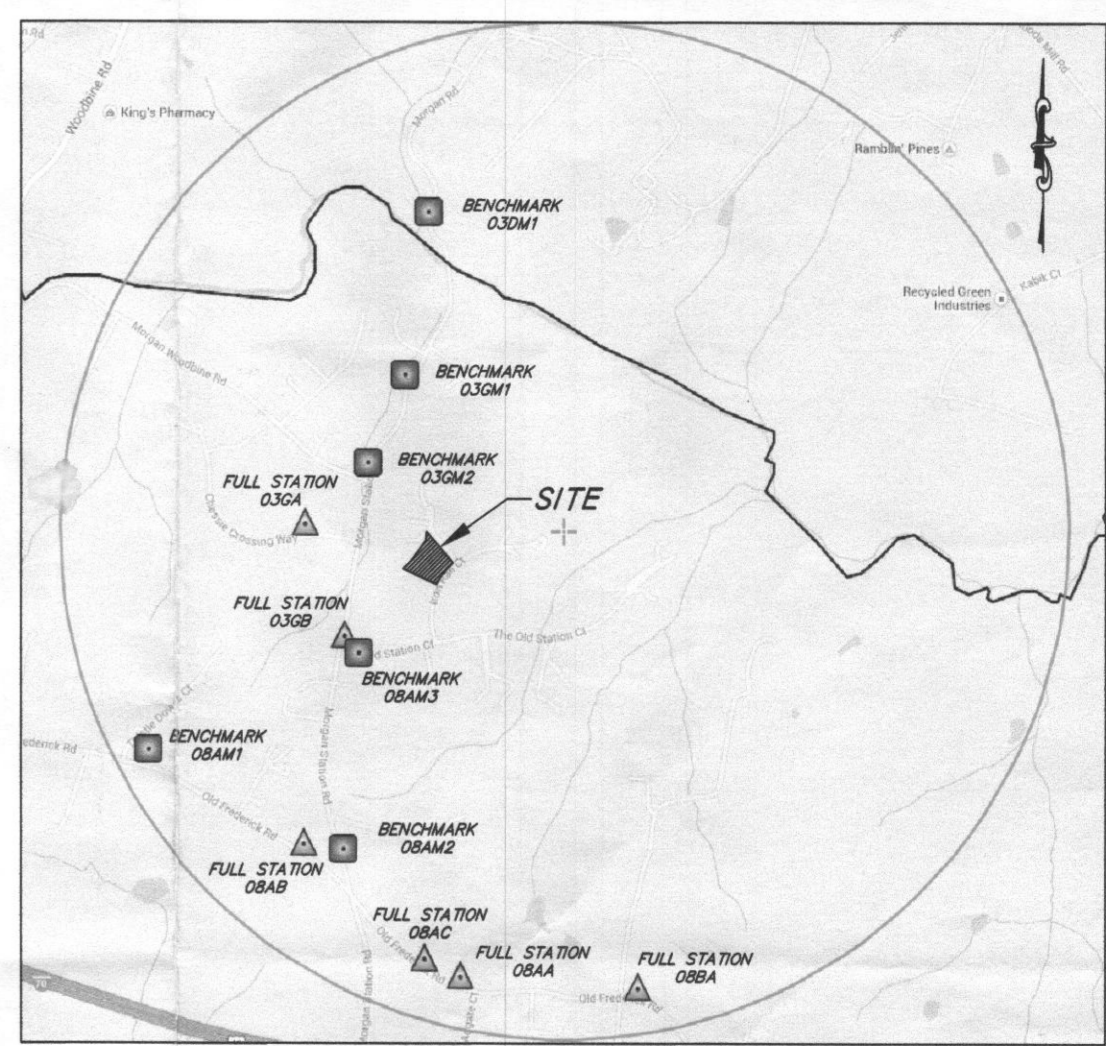
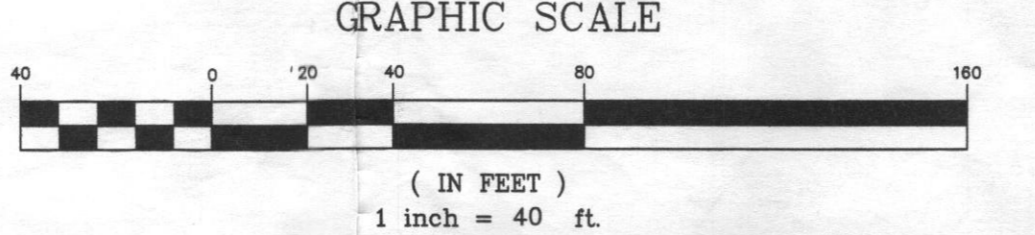
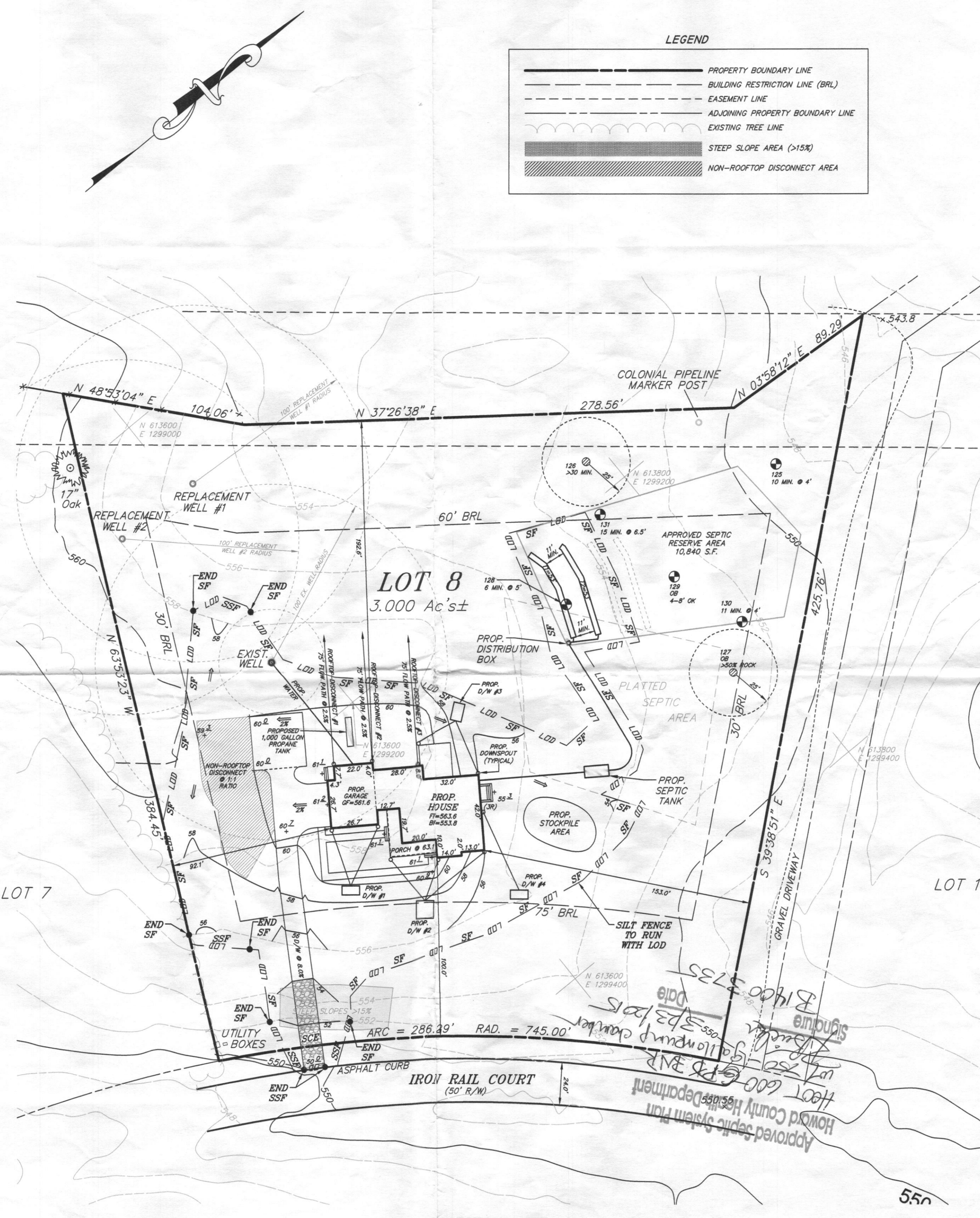
Dwg. No. Hoot Form #1 No Scale March 18, 2009

SEWAGE DISPOSAL SYSTEM DATA (4 BDRM):
 600 GPD BNR SYSTEM H-600BNR WITH 750 GALLON PUMP CHAMBER

- PROPOSED INVERT AT FOUNDATION WALL: 551.80'**
- BNR SYSTEM**
 EX. GRADE OVER TANK: 554.76'
 PROPOSED GRADE OVER TANK: 554.76'
 INVERT IN: 550.49' INVERT OUT: 552.26'
 - DISTRIBUTION BOX:**
 EXISTING GRADE OVER BOX: 555.11'
 PROPOSED GRADE OVER BOX: 555.11'
 INVERT IN: 552.11' INVERT OUT: 551.81'
 - TRENCH DESIGN**
 (4 BDRM x 150 GPD/BDRM = 600 GPD)
 600 GPD / 0.8 APR. RATE = 750 SF
 USE 3" WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
 11" MIN. SPACING BETWEEN TRENCH EDGES (2 x 41') + 3R = 11 feet
 750 SF / 3" WIDTH = 250 LF x 0.42 = 105 MIN. TRENCH
 USE 2 53" LONG TRENCHES = 108 LF
- TRENCH DATA:**
 BOTTOM MAX. DEPTH (8")
- TRENCH 1 (T1):**
 GROUND ABOVE = 554.95'
 INV. IN = 550.25'
 BOTTOM TRENCH = 546.95'
- TRENCH 2 (T2):**
 GROUND ABOVE = 554.43'
 INV. IN = 550.43'
 BOTTOM TRENCH = 546.43'



PROFILE
 H.SCALE: 1" = 30'
 V.SCALE: 1" = 3'



VICINITY MAP
 SCALE: 1" = 2,000'
 ADC MAP/GRID No.: 4692-C4

- GENERAL NOTES**
- PROPERTY ZONED: RC-DEO - RURAL RESIDENTIAL
 - PLAT REFERENCE: PLAT No. 03488
 - HORIZONTAL DATUM: NAD83; VERTICAL DATUM: NAVD83 - TOPOGRAPHY SHOWN INSIDE OF PROPERTY LIMITS WAS FIELD LOCATED BY LAVELLE & ASSOCIATES INC. TOPOGRAPHY SHOWN OUTSIDE OF PROPERTY LIMITS IS FROM HOWARD COUNTY SPATIAL DATA (SDS). TOPOGRAPHY (CONTOURS) GRID 031 AND VARIES SLIGHTLY (1/4" VERTICAL DIFFERENCE) FROM THE FIELD RUN TOPOGRAPHY SHOWN INSIDE THE PROPERTY LIMITS.
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PROFESSIONALS' REVIEW STATEMENT

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Justin M. Lavelle 3/19/2015 DATE
 JUSTIN M. LAVELLE REG. No. 21701, EXP. 6/11/2015

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE _____

DIRECTOR DATE _____

PROFESSIONAL ENGINEER DATE _____

OWNERS: STEVEN & CARYN CLARKE
 1288 EMMAUS ROAD
 WOODBINE MD, 21797-
 (410) 419-0591

DEVELOPER: CE RENSBERGER & FAMILY, BUILDERS
 C/O JOEL RENSBERGER
 1 S. MAIN STREET
 WOODSBORO, MD 21798
 (301) 370-4042

FIELD DATE: SEPT. 3, 2014
 PLAN DATE: MAR. 6, 2015
 SCALE: 1" = 40'
 PROJ. No. 14-103
 FILE: Morgan Station Lot 8.dwg
 DRAWN: JCA / DML
 PAGE: 1 OF 1

REVISIONS
 3/19/2015 - PER HEALTH DEPARTMENT COMMENTS DATED MARCH 17, 2015

LAVELLE & ASSOCIATES INCORPORATED
 PLANNERS • SURVEYORS

5732 Industry Lane, Frederick, Maryland 21704
 TEL: (301) 695-9722; FAX: (301) 695-9766

MORGAN STATION
 LOT 8
 SITE PLAN FOR BAT INSTALLATION

TAX MAP No. 04-24769
 SITUATED ON IRON RAIL COURT
 TAX MAP 3, PARCEL 44
 HOWARD COUNTY, MARYLAND