



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: 8/15/15 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 057374-B

APPROVAL DATE: 10/6/15 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 13608 Mitchells Way

SUBDIVISION: Cloverfield II LOT: 11 TAX ID: 03-353494

CONTRACTOR: WTC Contractors EMAIL: _____

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157 PHONE: 443-458-7024

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Catonsville Homes EMAIL: _____

OWNER ADDRESS: 11175 Stratfield Court, Marriottsville, MD 21104 PHONE: _____

Norweco TNTLP-
 BAT UNIT MODEL: 500/600 PUMP SIZE: _____ PUMP TANK CAPACITY: _____

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 11/4/13 DATE RECORDED: 11/4/13

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>3</u> OK
	TRENCH WIDTH: <u>3</u> OK	MAXIMUM BOTTOM DEPTH: <u>6</u> OK
	MINIMUM SPACE BETWEEN TRENCHES: <u>9'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>

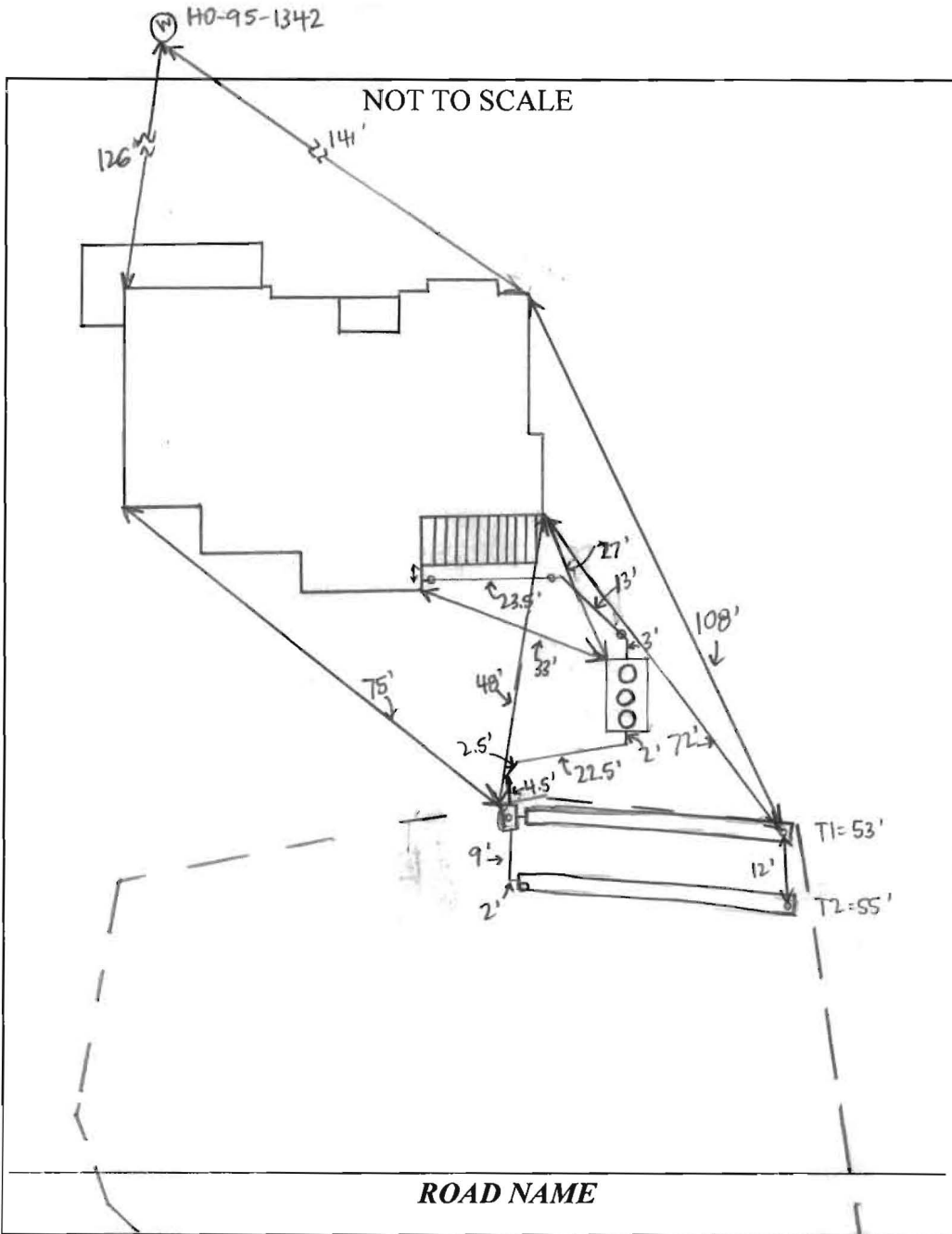
LOCATION: **PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**

NOTES: Install cleanout in SHC as needed.

ISSUED BY: Robert Bricker ISSUE DATE: 9/15/15 EXPIRATION DATE: 5/12/16

- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		108'
ABSORPTION AREA		216' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BACKRIVER/NORWEGIAN
CAPACITY	1300 GAL
SEAM LOC	TOP
TANK LID DEPTH	1-2'
BAFFLES	NO
BAFFLE FILTER	NO
MANHOLE LOC	FRONT, MID, REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	NO
DATE ON LID	8/16/15

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:

9/25/15 BAT staked. set Dbox top middle. SRA install 2x 53' trenches as pointed out in field running towards lot 10. Elevations staked and confirmed in field. less than 2" diff. call for inspection KAW

INSTALLATION:

9/28/15 House connection made. On site during tank delivery - no visible cracks on sides or bottom of tank. SC 9/29/15 D-box set and connected to tank. Levelled D-box with speed levelers. Both trenches complete - T2 left open. 3' wide. 2.5' - 3' to stone, 6' to bottom at observation pipe. Additional observation pipe at start of T2. Need BAT startup certification. SC 10/6/15 BAT startup certification received. SC 12/29/15 Met WTC on site for Norweco startup. Alarm sounds, aerator runs. Need 6" additional riser on front, mid, + back manhole covers. WTC will fix + let HD know when ready for inspection. SC

FINAL INSPECTOR

Sarah Collins

DATE OF APPROVAL

10/6/15

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 Singlair TNT 600 GPD Septic Tank installed at 13608 Mitchells Way, West Friendship, MD 21794 on September 28, 2015 was installed according to the manufacture's specifications.

Installer: Walter Coon

Property Owner: Catonsville Homes

Permit #



MATTHEW GECKLE

Vice-President



Bureau of Environmental Health
 7178 Columbia Gateway Drive, Columbia, MD 21046-2147
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 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

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

THIS AGREEMENT is made this 4 day of October 2013, among Spring Mill LLC, 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 13608 Mitchells Way, W. Friendship, MD 21794 (Lot 11), in the 03 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 11285 Folio 00664.

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.

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 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 to develop accurate and thorough test results.
- 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.

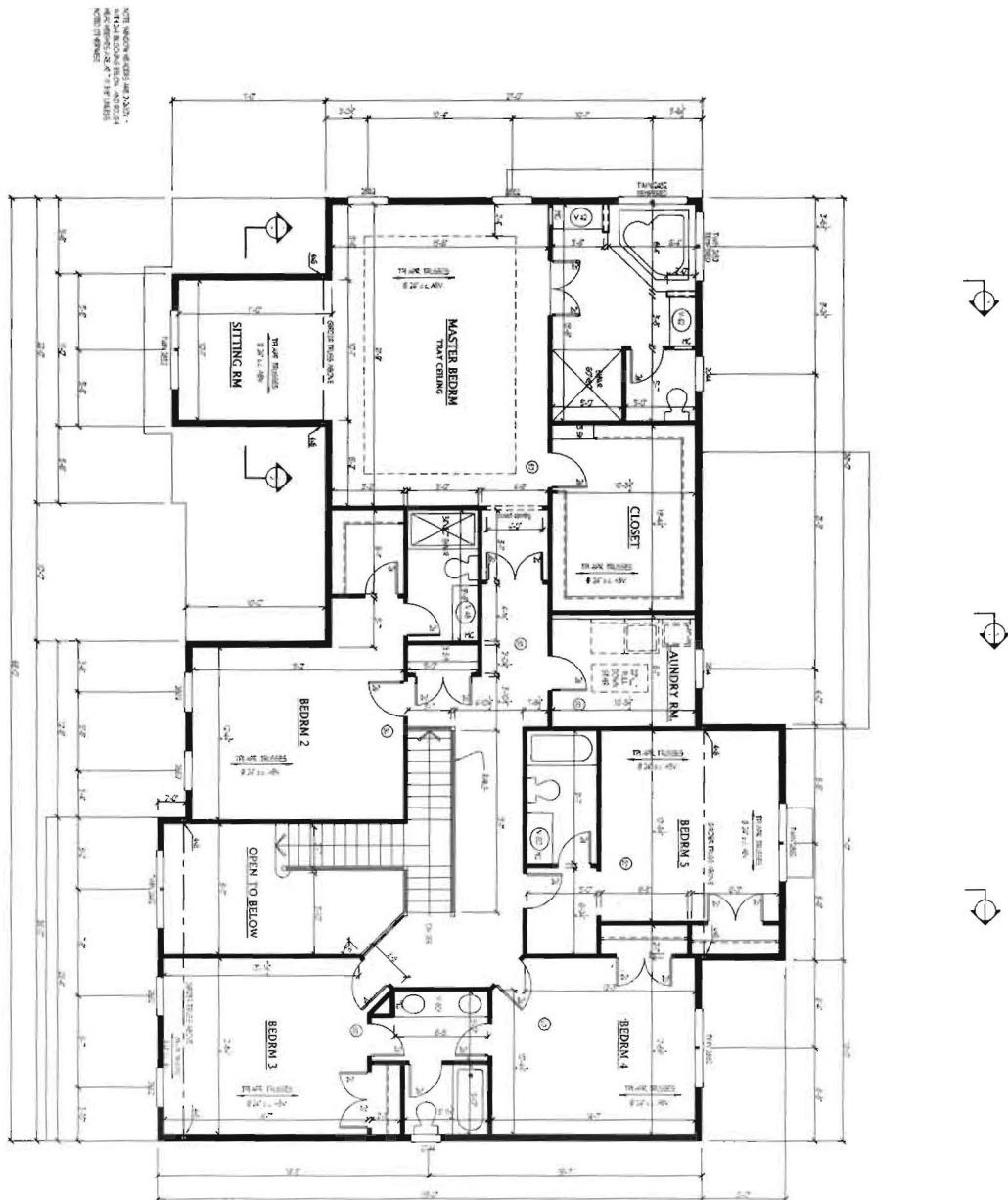
IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Spring Mill LLC
James R. Maxley III 10/4/13
 Owner James R. Maxley III Date

 Owner Date

Bert Nifon 11/4/2013
 Howard County Health Department

LR - Agreement Recording Fee 20.00
 Grantor/Grantee Name: HEHD
 Reference/Control #: 186
 LR - Agreement Surcharge 40.00
 LR - Additional Recording Fee - linked 0.00
 SubTotal: 60.00
 Total: 60.00
 #2188213-1 02:53 CC13-CH
 11/04/2013
 #2188213 CC0503 - Howard Co
 Columbia/CC05.03.03 -
 Register 03 495



FINAL SET 5/4/15

1:25/25/25/25/25



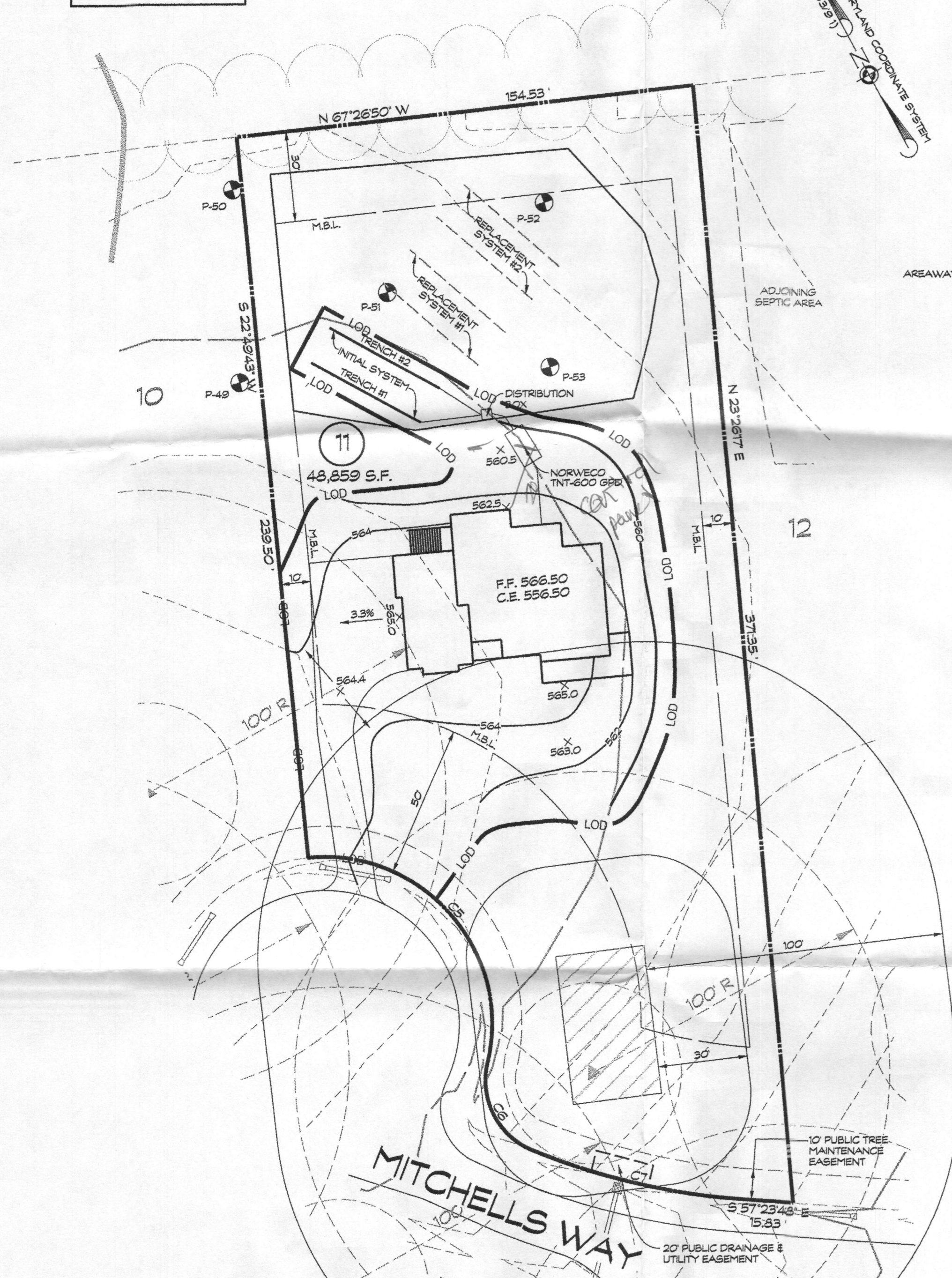
Project No.: C15.05
 Date: 4/15
 Scale: 1/4"=1'-0"

Drawing: SECOND FLOOR PLAN
 Project: CATONVILLE HOMES
 CHAPEL HILL
 CLOVERFIELD II LOT 11

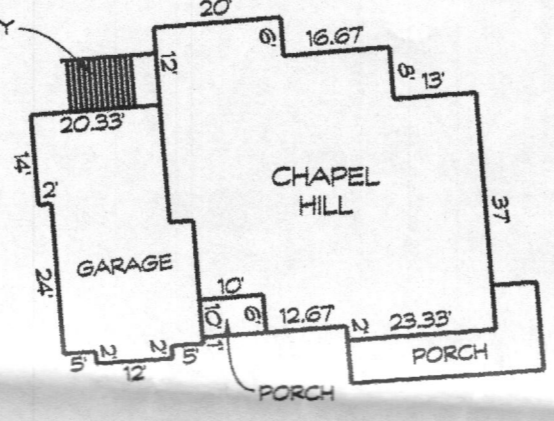
Notes:

Plymouth Road Architects
 640 Plymouth Road, Baltimore, MD 21229, 410-788-0281
 PlymouthRoadArchitects.com

LOD DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 17,404 S.F.



- LEGEND:**
- ⊗ SPOT ELEVATION
 - FLOW PATH & SLOPE
 - ▲ EX. WELL
 - PERC TEST LOCATION

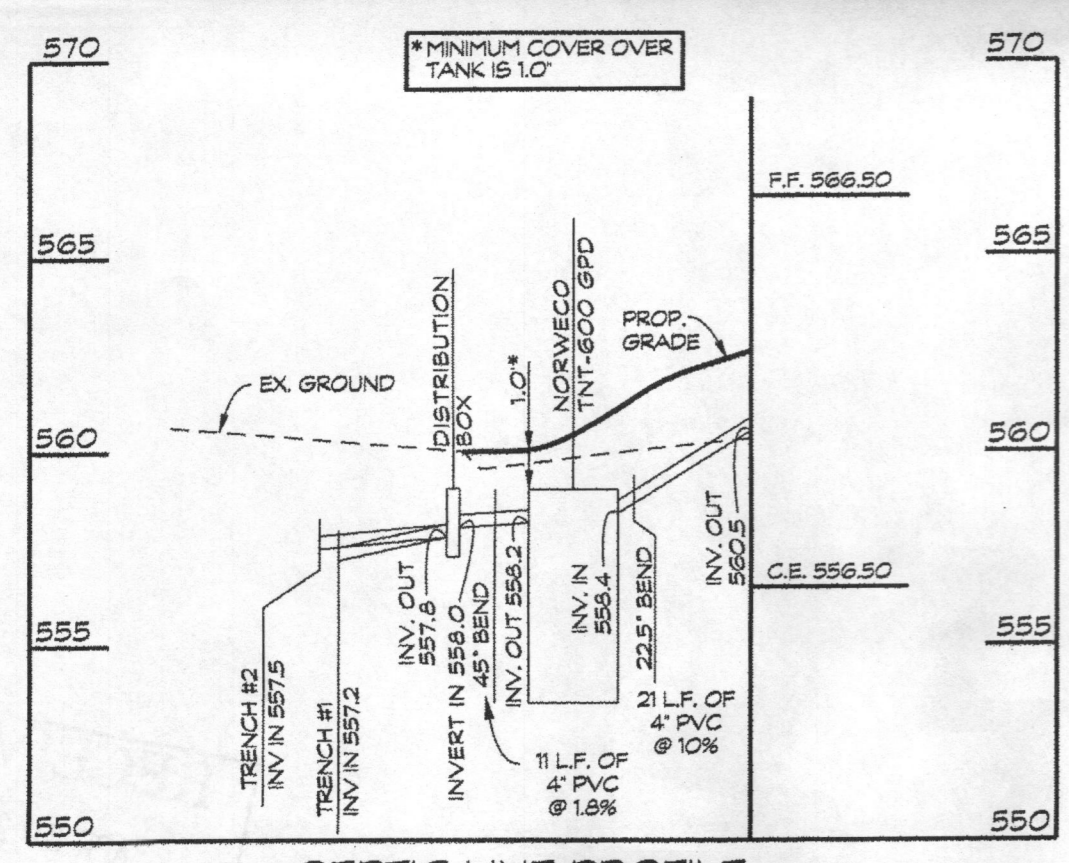


PLAN
SCALE: 1" = 30'

1500 SQ. FT. WELL BOX FROM PERCOLATION CERTIFICATION PLAN

BAT SITE PLAN NOTES

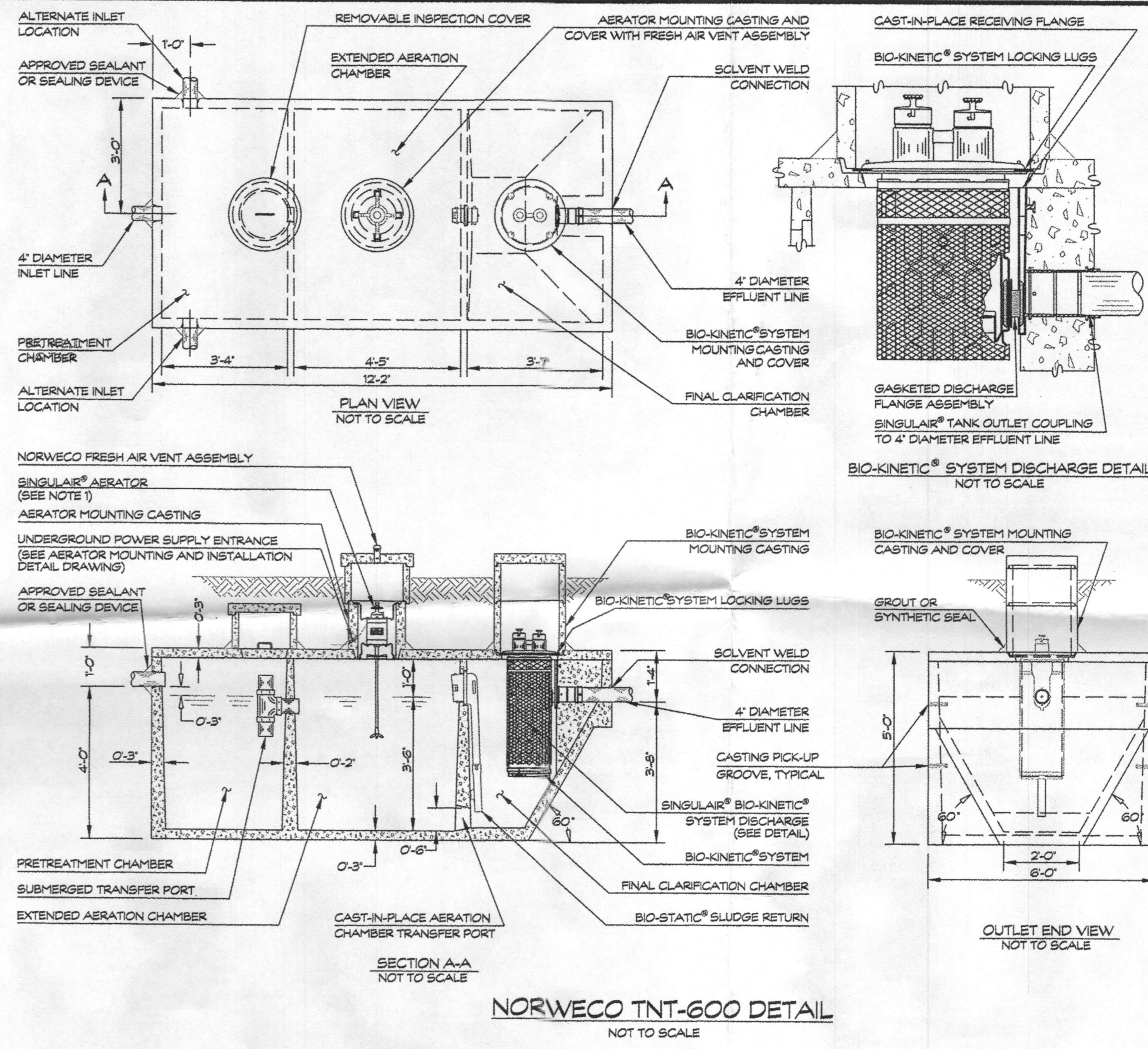
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 4 FEET.
3. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
4. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
5. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
6. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
7. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
8. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
9. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.



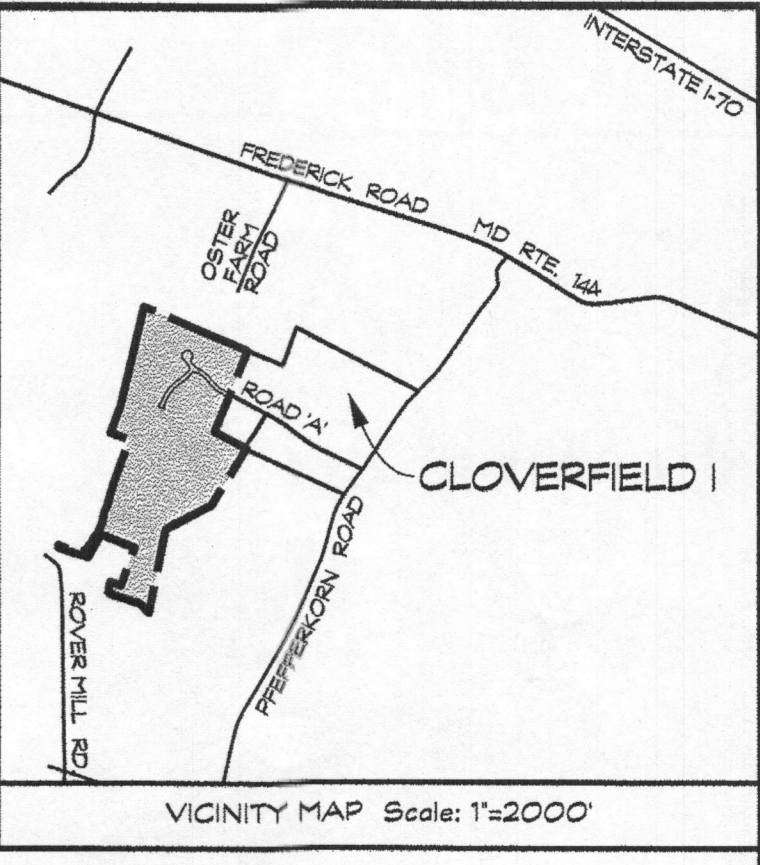
SEPTIC LINE PROFILE
SCALE: HORIZ 1" = 30'
VERT. 1" = 5'

TRENCH CHART

TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	560.5	557.5	552.5
2	560.2	557.2	552.2



NORWECO TNT-600 DETAIL
NOT TO SCALE



SEPTIC TANK NOTES

1. SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
2. FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
4. TANK REINFORCED PER ACI STD. 318-05.
5. REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
6. CONTACT THE LOCAL, LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

SEPTIC SYSTEM TRENCH DESIGN:

HOUSE SQUARE FOOTAGE: 2,876 S.F.
 PROPOSED NUMBER OF BEDROOMS = 4
 AVERAGE PERCOLATION TEST TIME = 3
 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. = 167 L.F. OF TRENCH
 167 L.F. x 0.50 = 83.5 L.F. OF TRENCH = 84 L.F.
 USE 2 - 42 L.F. OF TRENCH FOR INITIAL SYSTEM
 USE 2 - 42 L.F. OF TRENCH FOR EACH REPLACEMENT SYSTEM

GENERAL NOTES

1. THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAT NO. 20256.
2. THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
3. THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
4. EXISTING WELL LOCATION IS FIELD LOCATED.

NOTE:
 SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM REVISED PERCOLATION CERTIFICATION PLAN DATED OCTOBER 2007 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT OCTOBER 5, 2007.

OWNER/DEVELOPER
 SPRING HILL LLC
 P.O. BOX 417
 ELLICOTT CITY, MD 21041

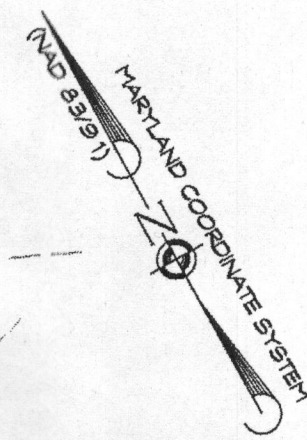
SITE PLAN AND PLOT PLAN FOR BAT INSTALLATION
 SPRING HILL LLC
 13608 MITCHELLS WAY
 TAX ACCOUNT NO.: 353494
 LOT 11
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT • HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119

Linda D. Alexander
 4/29/15
 Linda D. Alexander
 Qualified Professional

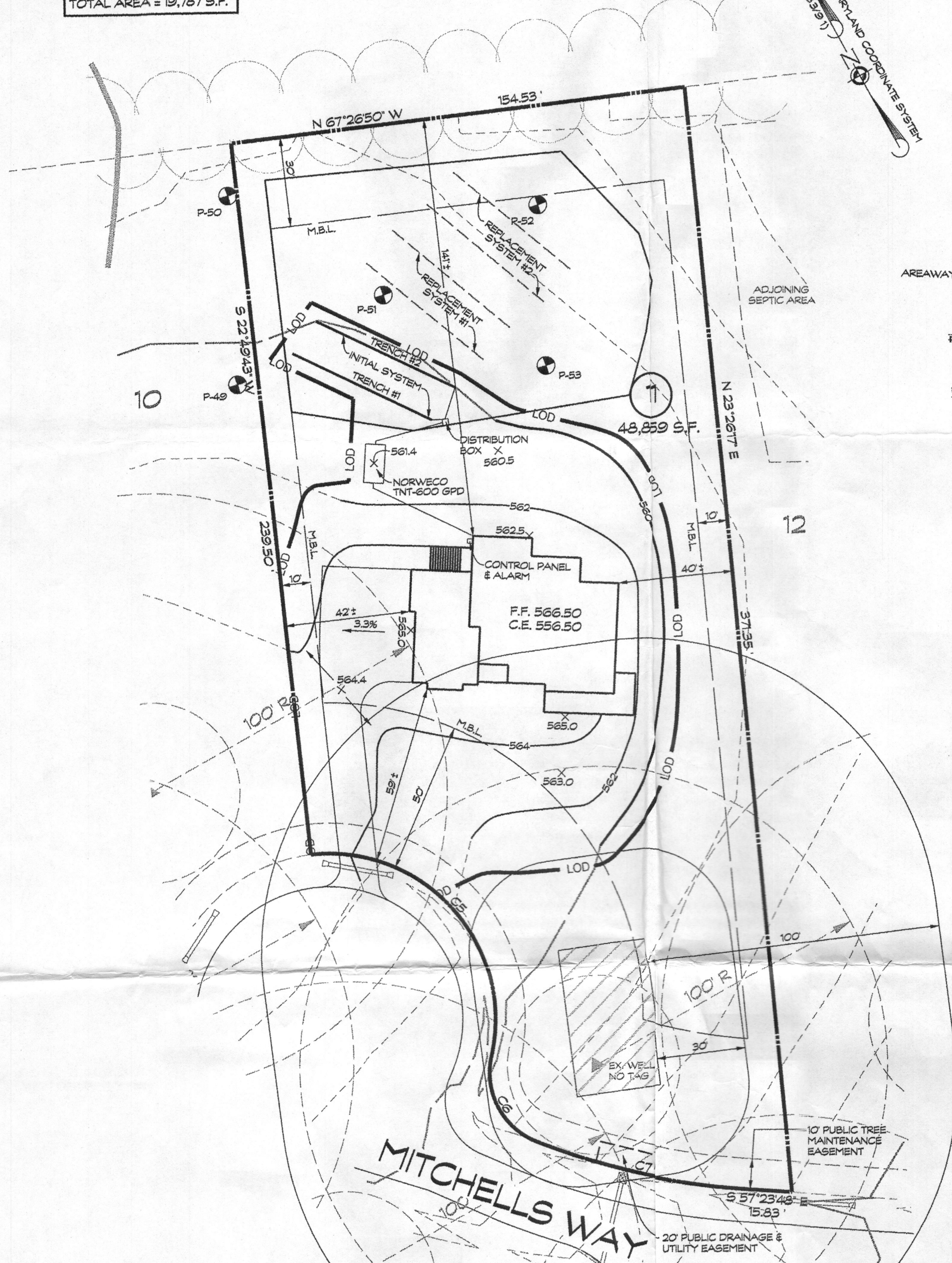
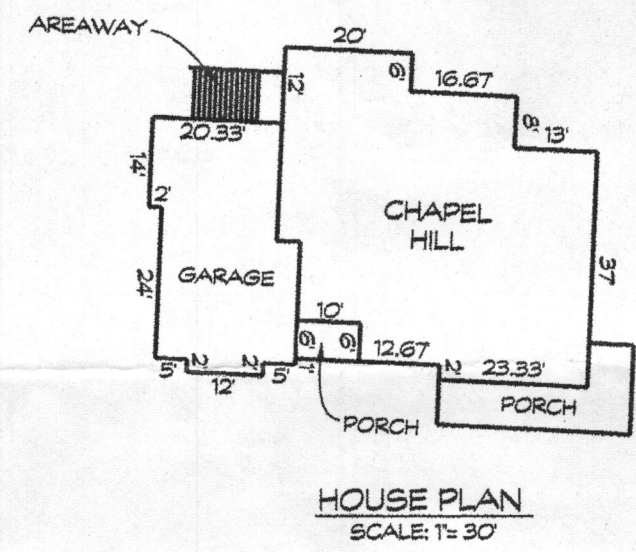
439 East Main Street Westminster, MD 21157-5539
 (410) 848-1790 FAX (410) 848-1791

Date	Revisions	Drawn By: BM
		Designed By: LDA
		Reviewed By: LDA
		Date: 4/22/15
		Scale: 1" = 30'
		Job No.: 2013039
		Sheet: 1 OF 1

LOD DENOTES LIMIT OF DISTURBANCE
TOTAL AREA = 19,787 S.F.



LEGEND:
 X SPOT ELEVATION
 2.2% FLOW PATH & SLOPE
 ▲ EX. WELL
 ● PERC TEST LOCATION



PLAN
SCALE: 1/8"

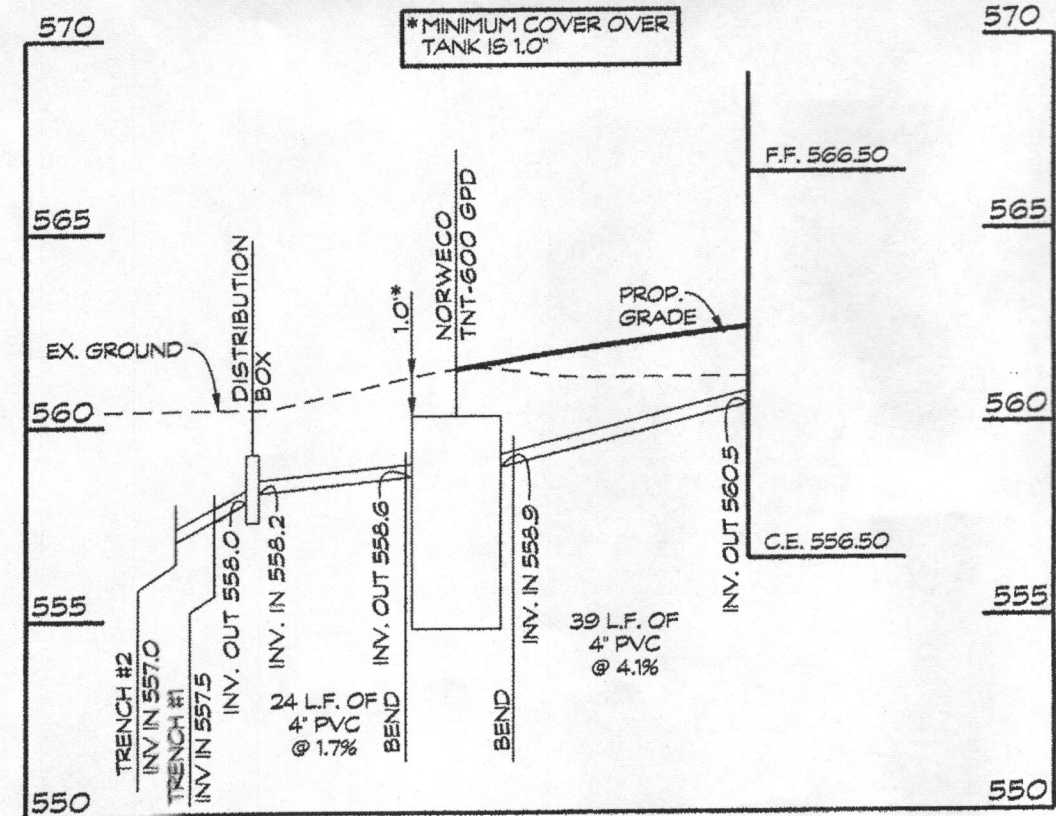
1500 SQ. FT. WELL BOX FROM PERCOLATION CERTIFICATION PLAN

TRENCH CHART

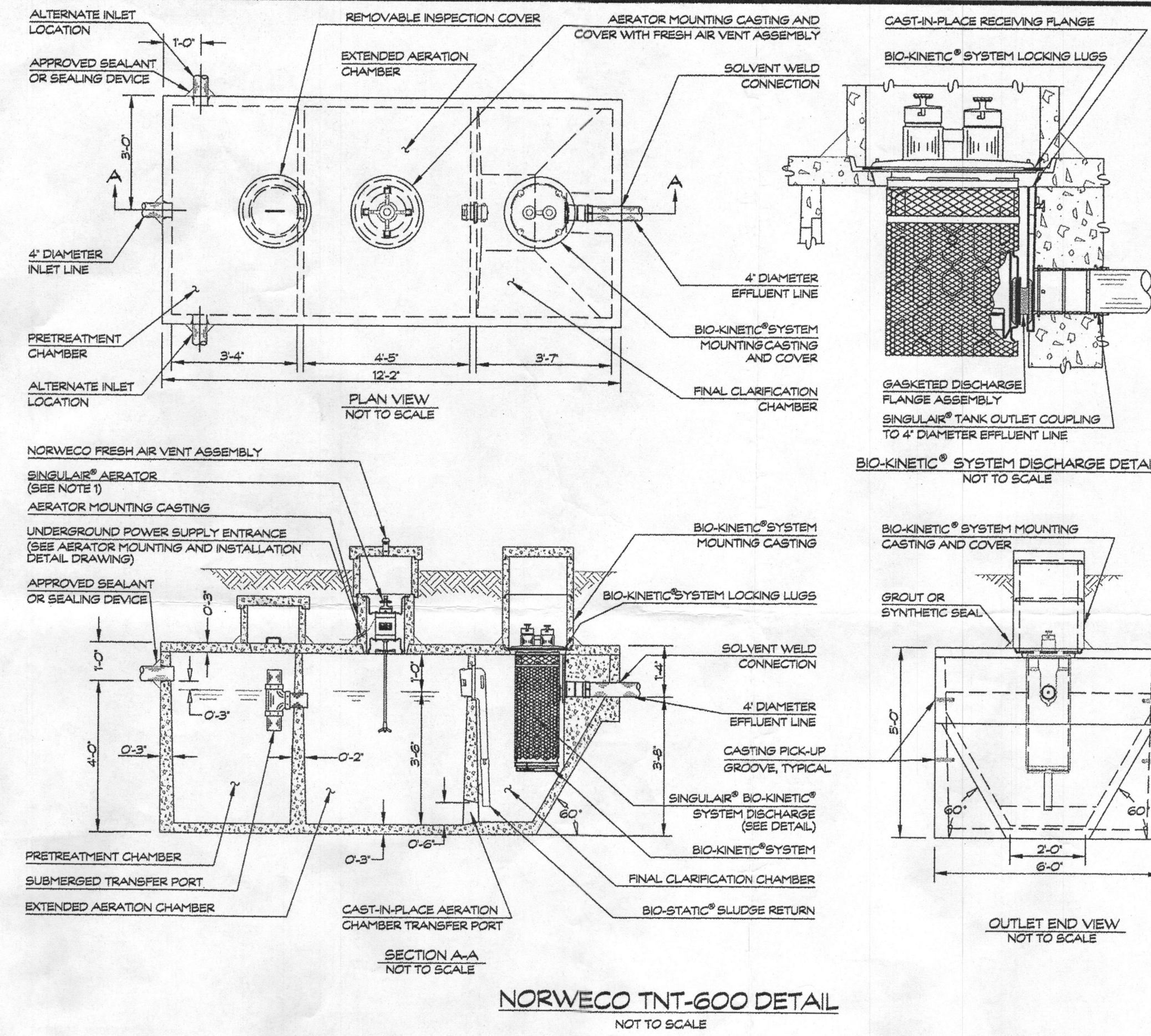
TRENCH	EX. GROUND	INV. ELEV.	BOTTOM OF TRENCH
1	560.5	557.5	554.5
2	560.0	557.0	554.0

BAT SITE PLAN NOTES

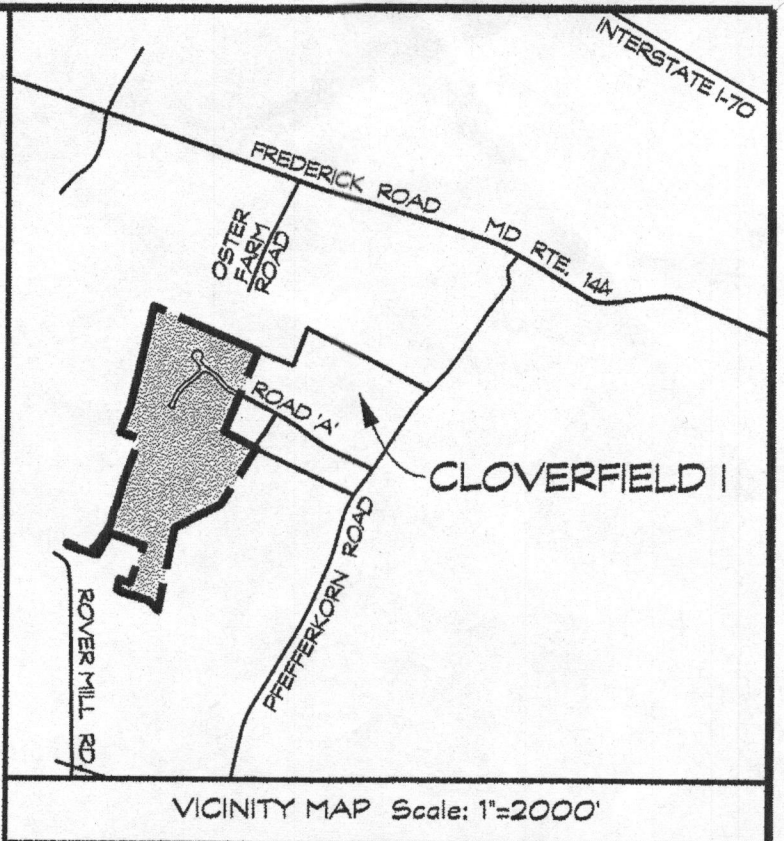
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
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- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OR HOWARD COUNTY.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.



SEPTIC LINE PROFILE
SCALE: HORIZ 1/8"



NORWECO TNT-600 DETAIL
NOT TO SCALE



SEPTIC TANK NOTES

- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL, LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

SEPTIC SYSTEM TRENCH DESIGN:

PROPOSED NUMBER OF BEDROOMS = 5
 AVERAGE PERCOLATION TEST TIME = 3
 APPLICATION RATE = 1.2
 DESIGN FLOW: 150 GALS x 5 BEDROOM = 750 GAL/DAY
 750 GAL/DAY / 1.2 GAL./DAY/SQ. FT. = 625 SQ. FT.
 625 SQ. FT. / 3 FT. = 208 LF. OF TRENCH
 208 LF. x 0.50 = 104 LF. OF TRENCH
 USE 2 - 52 LF. OF TRENCH FOR INITIAL SYSTEM
 USE 2 - 52 LF. OF TRENCH FOR EACH REPLACEMENT SYSTEM

GENERAL NOTES

- THE STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED OFF-SITE IN THE TWO MICROPOOL EXTENDED DETENTION FACILITIES AND GRASSED SWALES PER THE RECORDED PLAT NO. 20256.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS, OR WETLANDS ON THIS LOT.
- THERE ARE NO 20% OR GREATER SLOPES ON THIS LOT.
- EXISTING WELL LOCATION IS FIELD LOCATED.

NOTE:
SEPTIC DISPOSAL AREA AND PERCOLATION TEST LOCATIONS ARE FROM REVISED PERCOLATION CERTIFICATION PLAN DATED OCTOBER 2007 AND SIGNED BY HOWARD COUNTY HEALTH DEPARTMENT OCTOBER 5, 2007.

Approved Septic System Plan
 Howard County Health Department
 NORWECO TNTLP-600
 To Gravity drain field
 J. Bickel 6/22/2015
 Signature Date
 B1500 1939

OWNER/DEVELOPER
 SPRING MILL LLC
 P.O. BOX 417
 ELLICOTT CITY, MD 21041

SITE PLAN AND PLOT PLAN
 FOR BAT INSTALLATION
 SPRING MILL LLC
 13608 MITCHELLS WAY
 TAX ACCOUNT NO.: 353494
 LOT 11
CLOVERFIELD- SECTION II
 3RD ELECTION DISTRICT - HOWARD COUNTY, MD.
 TAX MAP: 15 BLOCK: 7 PARCEL: 119

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

Linda D. Alexander
 Qualified Professional
 6/14/15

Date	Revisions	Drawn By:
5/6/15	REVISED HOUSE AND SEPTIC TANK LOCATIONS	Designed By: LDA
5/7/15	REVISED HOUSE TO A 5 BEDROOM	Reviewed By: LDA
6/16/15	REVISED PER HEALTH DEPT. COMMENT LETTER DATED 5/14/15	Date: 4/22/15

Scale: 1" = 30'
 Job No.: 2013039
 Sheet: 1 OF 1