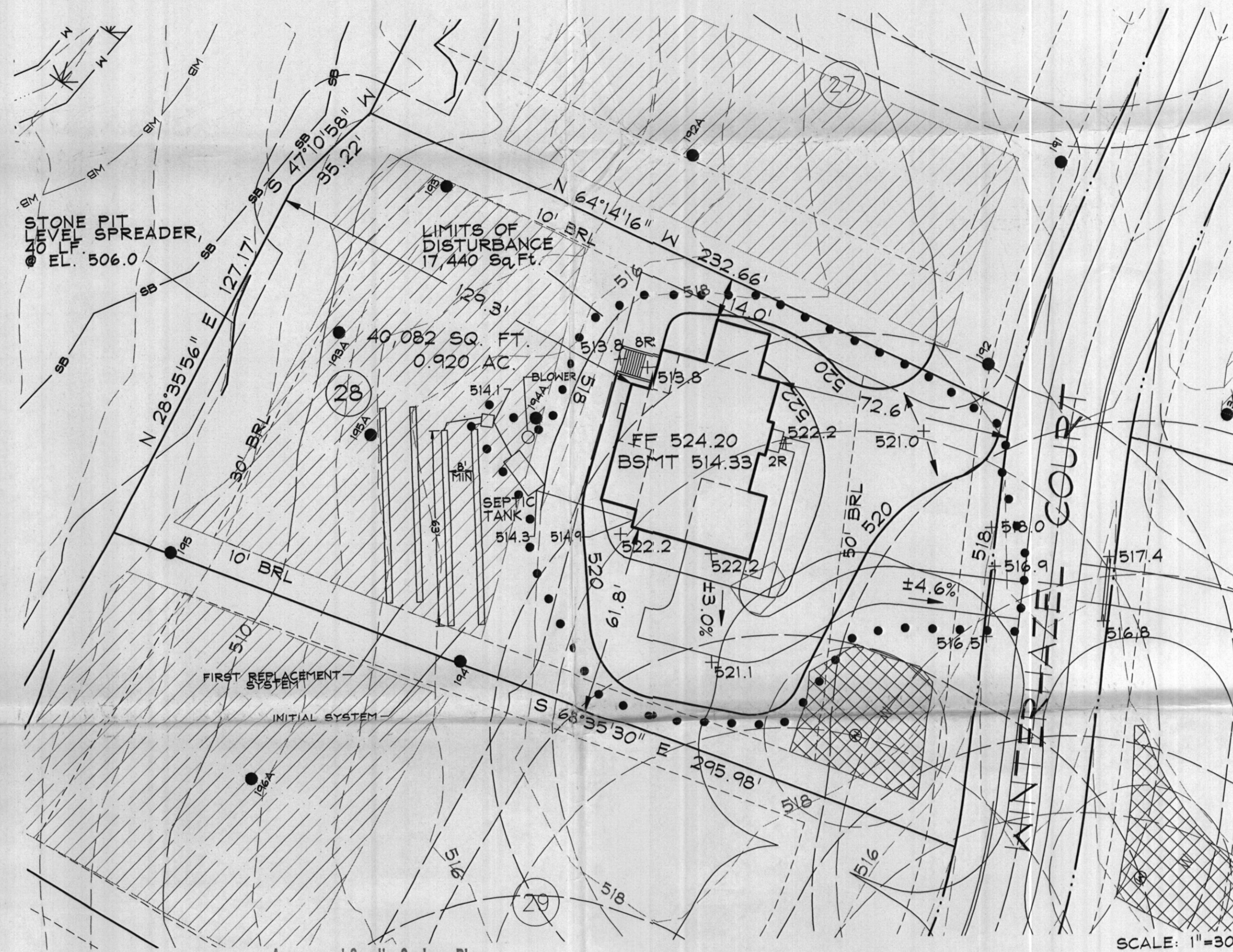
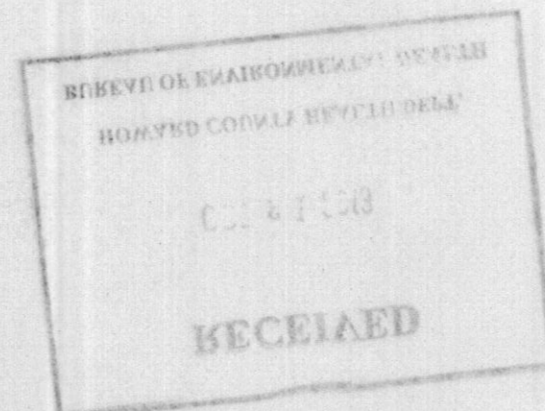


**GENERAL NOTES**

1. BASE SQUARE FOOTAGE OF HOUSE: 3,530 SQ.FT.
2. NUMBER OF BEDROOMS: 4
3. EJECTOR PUMP REQUIRED TO SEWER BASEMENT
4. DRIVEWAY CULVERT SHOWN PER THE APPROVED ROAD DRAWINGS, F-07-35.
5. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
6. PLAT REFERENCE: #19948
7. BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DMN, AND DATED 06/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS IN DATED 07/09/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012.
8. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE DDC, INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
9. THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEVELOPMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DEVISION AT (410)315-1881 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
10. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
11. TOTAL LIMIT OF DISTURBANCE: 17,440 SQ. FT. / 0.39 AC.
12. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-38).
13. 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.
14. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (DDC, INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
15. THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
16. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
17. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
18. EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
19. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
20. UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS OF ALL PROPOSED STRUCTURES AND OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
21. THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-07-35.

**SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:**

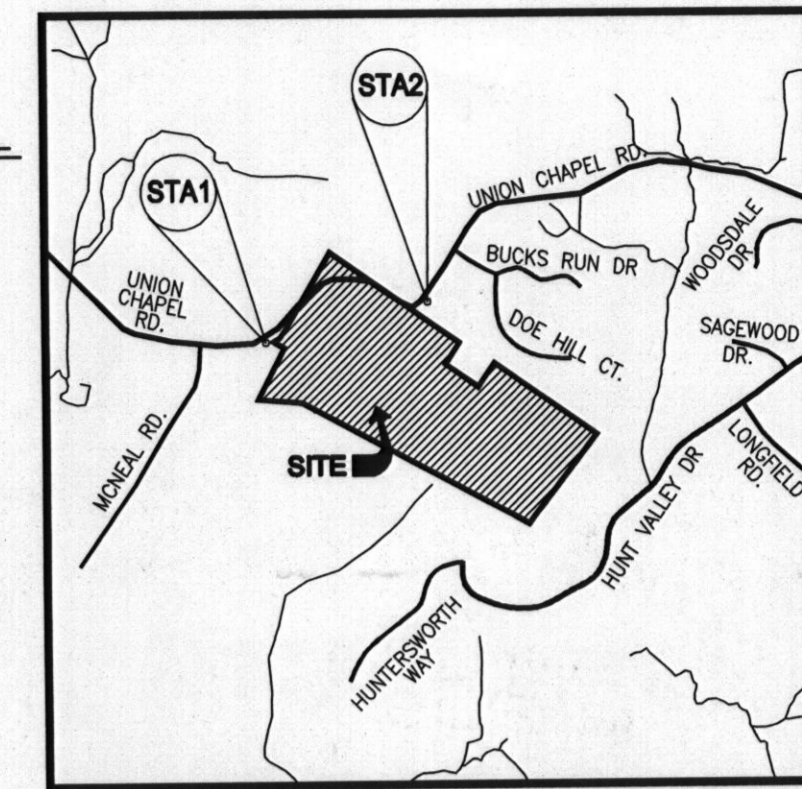
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
3. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURE'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. 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.
7. ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.



Approved Septic System Plan  
 Howard County Health Department  
 Plans OK. See permit  
 for modification of STC  
 Buckle 10/31/2013  
 Signature B13002675 Date

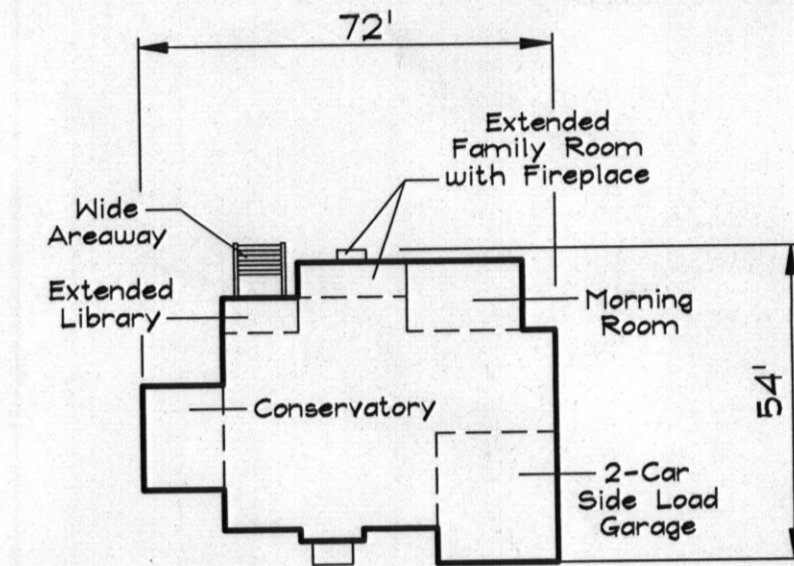
**BENCHMARK**

<b>GEODETTIC SURVEY CONTROL #1</b>	
N.	591450.42
E.	1297871.25
A.A.	1404
ELEV.	638.43
<b>GEODETTIC SURVEY CONTROL #2</b>	
N.	591893.88
E.	1299121.80
B.M.	1409
ELEV.	642.23
ADC MAP COORDINATES 4812/C4	



**VICINITY MAP**

SCALE: 1" = 2000'

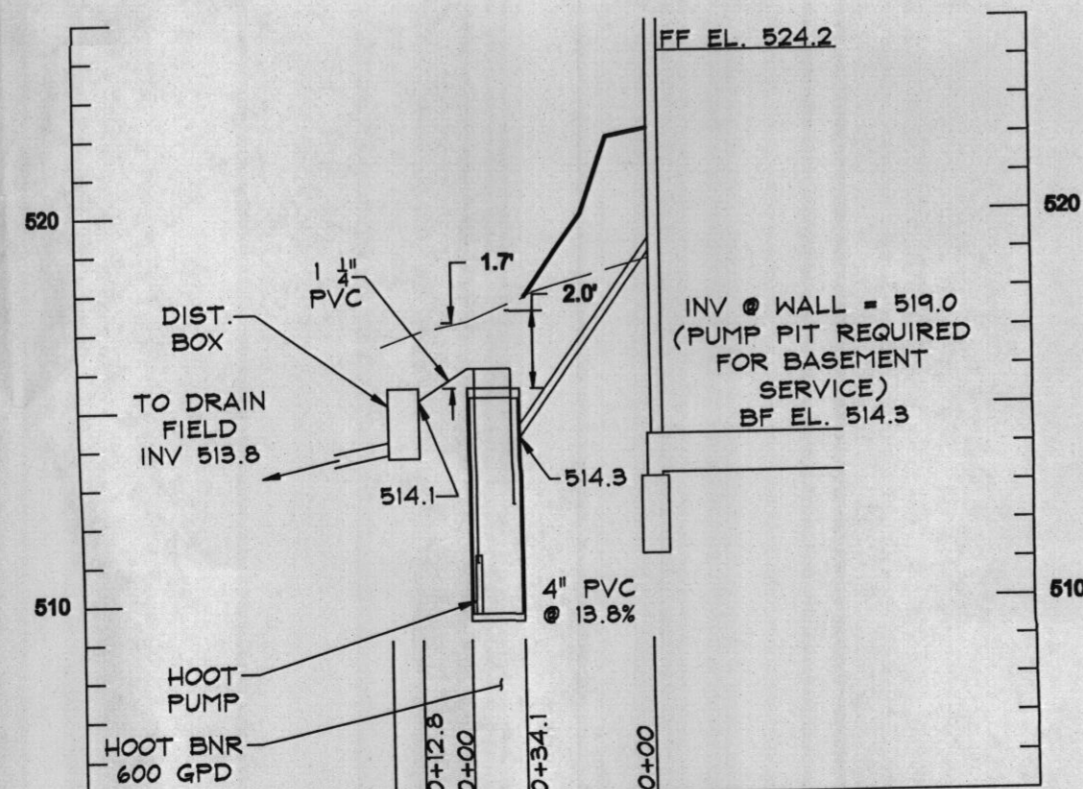
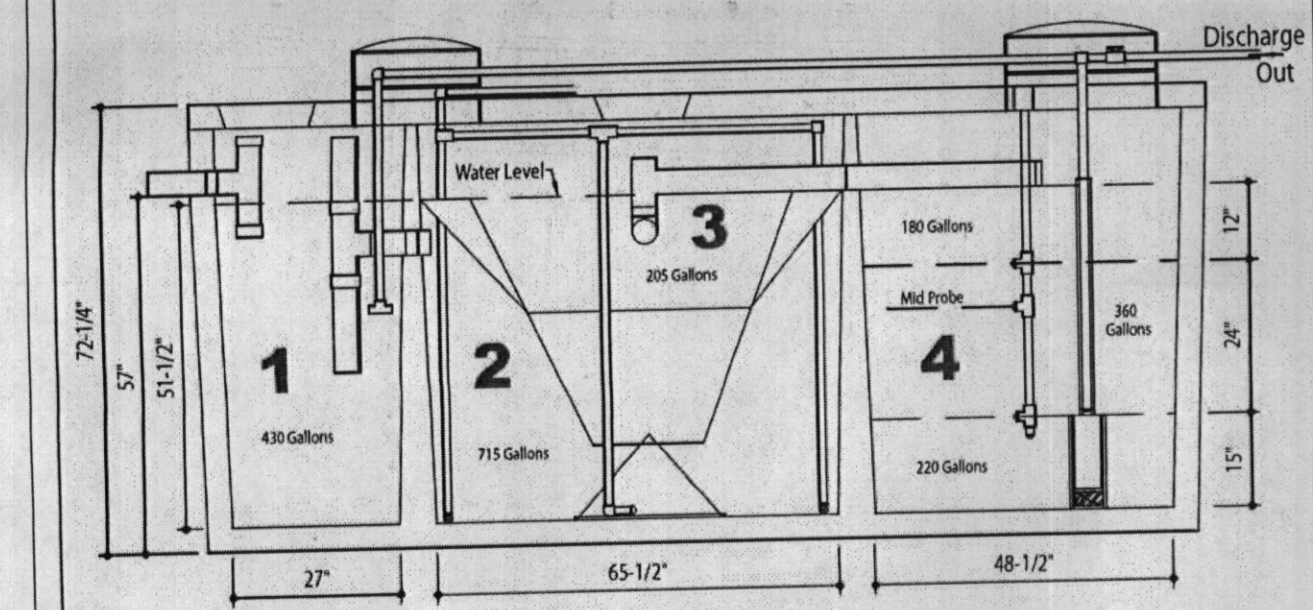
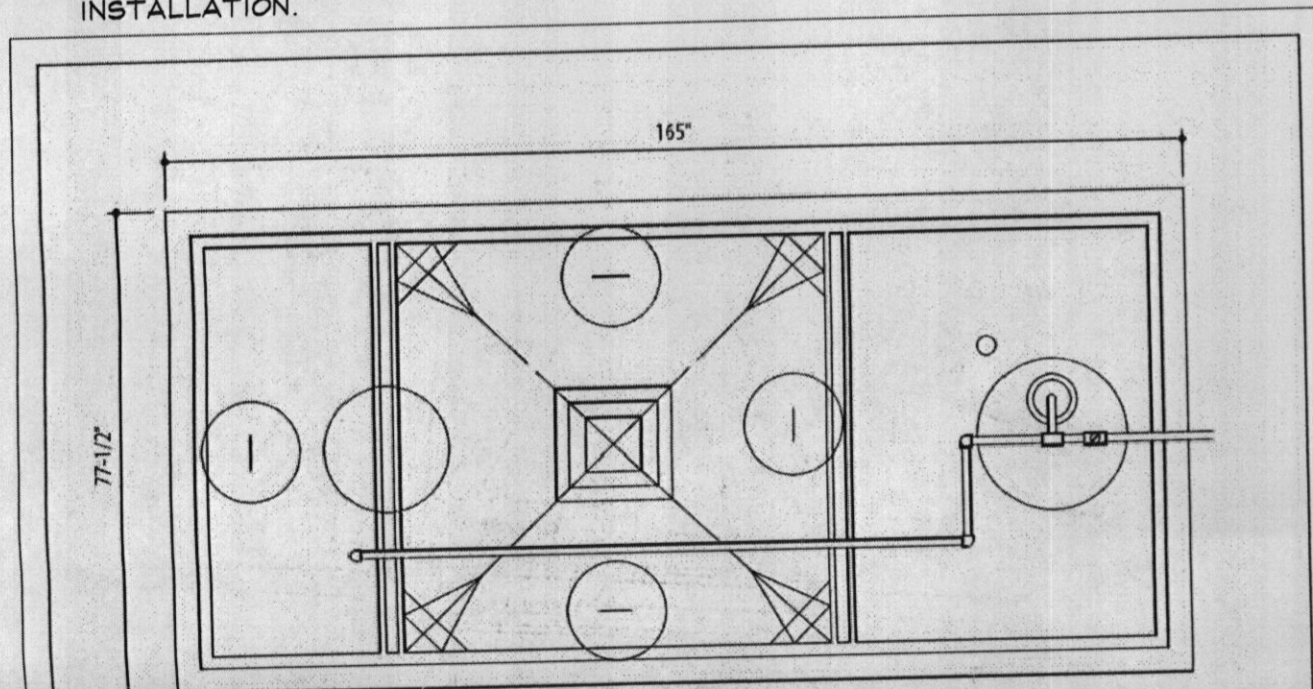


COLORADO  
 GEORGIAN ELEVATION  
 BRICK FRONT

**DATA SOURCES:**

**DRAWING LEGEND**

- 500 PROPOSED GRADE
- 502 EX. FAILED PERCOLATION TEST
- EX. PASSED PERCOLATION TEST
- PROPOSED LIMIT OF DISTURBANCE
- + 665.5 PROP. SPOT ELEV./FLOW ARROW
- SEPTIC RESERVE AREA
- WELL AREA



**SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):**

1. INVERT @ FOUNDATION WALL: 514.9 (BASEMENT PUMP REQUIRED)
2. 600 GPD BNR SYSTEM W/ 75 GALLON PUMP CHAMBER  
 EX. GRADE OVER TANK: 517.5  
 PROPOSED GRADE OVER TANK: 517.5
3. DISTRIBUTION BOX  
 INVERT: 514.3  
 EX. PROPOSED GRADE OVER TANK: 516.7  
 PROPOSED GRADE OVER TANK: 516.7
4. TRENCH SIZING  
 USE 2 - 2' by 63' TRENCHES  
 3' OF GRAVEL BELOW DISTRIBUTION PIPE  
 8' MINIMUM SPACING BETWEEN TRENCH EDGES
5. HOOT SYSTEM EFFLUENT PUMP  
 GOULDS PUMPS  
 EP04 SINGLE PHASE  
 0.4 HP

**DESIGN DATA & GENERAL NOTES**

- (1) Concrete strength f'c=4000 psi @ 28 days. Density = 150 pcf
- (2) Concrete - Portland Type III per ASTM C 150-92
- (3) Admixtures & plasticizers per ASTM C 260-96 & C 494-92
- (4) Reinforcing per ASTM A113. Min. 1-1/2" cover.

**Mayer Brothers, Inc.**  
 6284 Race Road  
 Elridge, Maryland 21075  
 Tel. 410.796.1434  
 Fax. 410.796.1438  
 www.mayerbrothers.com

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

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

**DDC Inc.**  
 Development Design Consultants

Planners  
 Surveyors  
 Engineers  
 Landscape Architects

192 East Main Street  
 Westminster, MD 21157  
 410.386.0560  
 410.386.0564 (Fax)  
 DDC@DDCinc.us  
 www.DDCinc.us

**OWNER:**  
 K. HONANIAN HOMES  
 1802 Brightwood Road  
 Landover, Maryland 20785  
 (301) 665-6266

**DEVELOPER:**  
 BELLE HAVEN ESTATES  
 LOT 26

**SITE ADDRESS:**  
 LOT 26  
 2800 Winterhazel Court  
 Woodbine, Maryland 21797

**SITE PLAN FOR  
 BAT INSTALLATION**

3rd ELECTION DISTRICT HOWARD COUNTY

REVISIONS

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE

CO. FILE #	DES. BY: JHK
TAX ACC. #	DRN. BY: BKS
TAX MAP: 14	CHK. BY: PGC
BLOCK / GRID:	DATE: 10/30/13
PARCEL # 66	DDC JOB #: 08116.5
ZONE / USE: RC-DEO	SHEET NUMBER:
DWG. SCALE: 1"=30'	1 of 1

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. 27202, Expiration Date: 02/28/14.

10/30/13  
 DATE

**GENERAL NOTES**

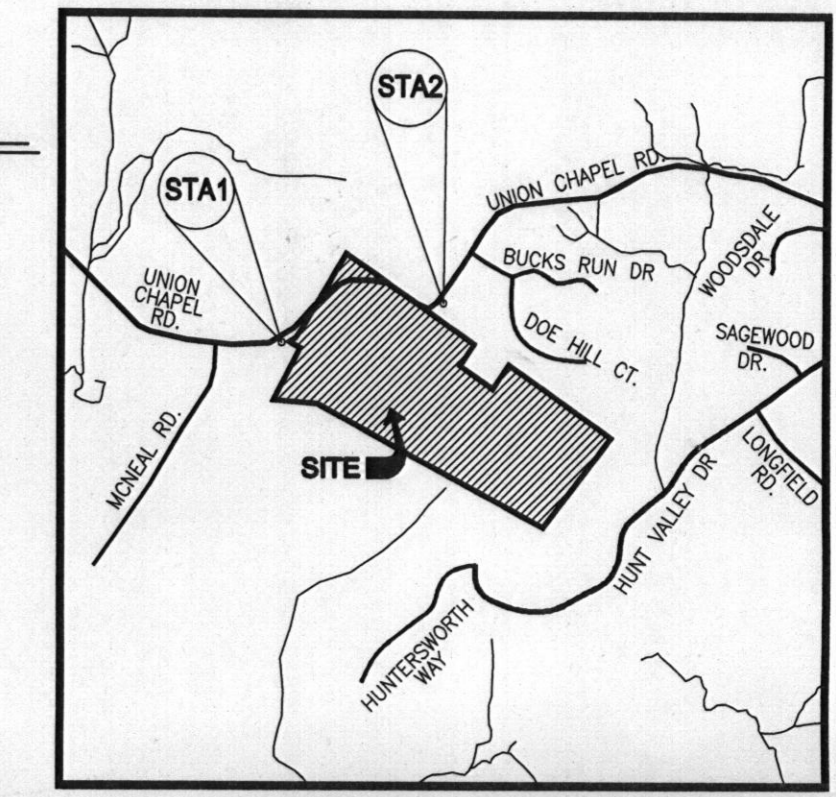
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2. NUMBER OF BEDROOMS: 4
3. EJECTOR PUMP REQUIRED TO SEWER BASEMENT
4. DRIVEWAY CULVERT SHOWN PER THE APPROVED ROAD DRAWINGS, F-07-38.
5. THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
6. PLAT REFERENCE: #19948
7. BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DMH, AND DATED 06/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARCO DESIGN CONSULTANTS DATED 07/09/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012.
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11. TOTAL LIMIT OF DISTURBANCE: 17,340 SQ. FT. / 0.39 AC
12. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-38).
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**SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:**

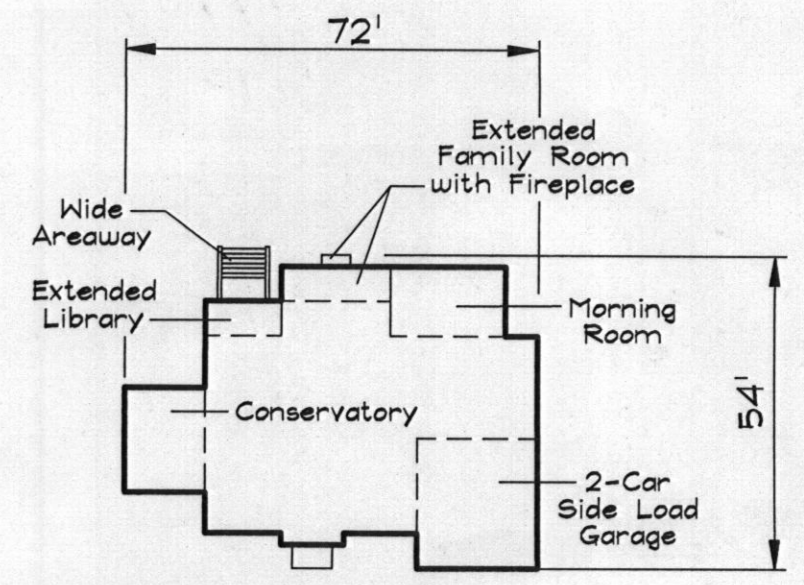
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8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

**BENCHMARK**

<b>GEODETTIC SURVEY CONTROL #1</b>	
N.	691450.42
E.	1297871.25
A.A.	146A
ELEV.	636.43
<b>GEODETTIC SURVEY CONTROL #2</b>	
N.	691663.86
E.	1299121.80
B.M.	146B
ELEV.	642.23
<b>ADC MAP COORDINATES</b>	
481204	

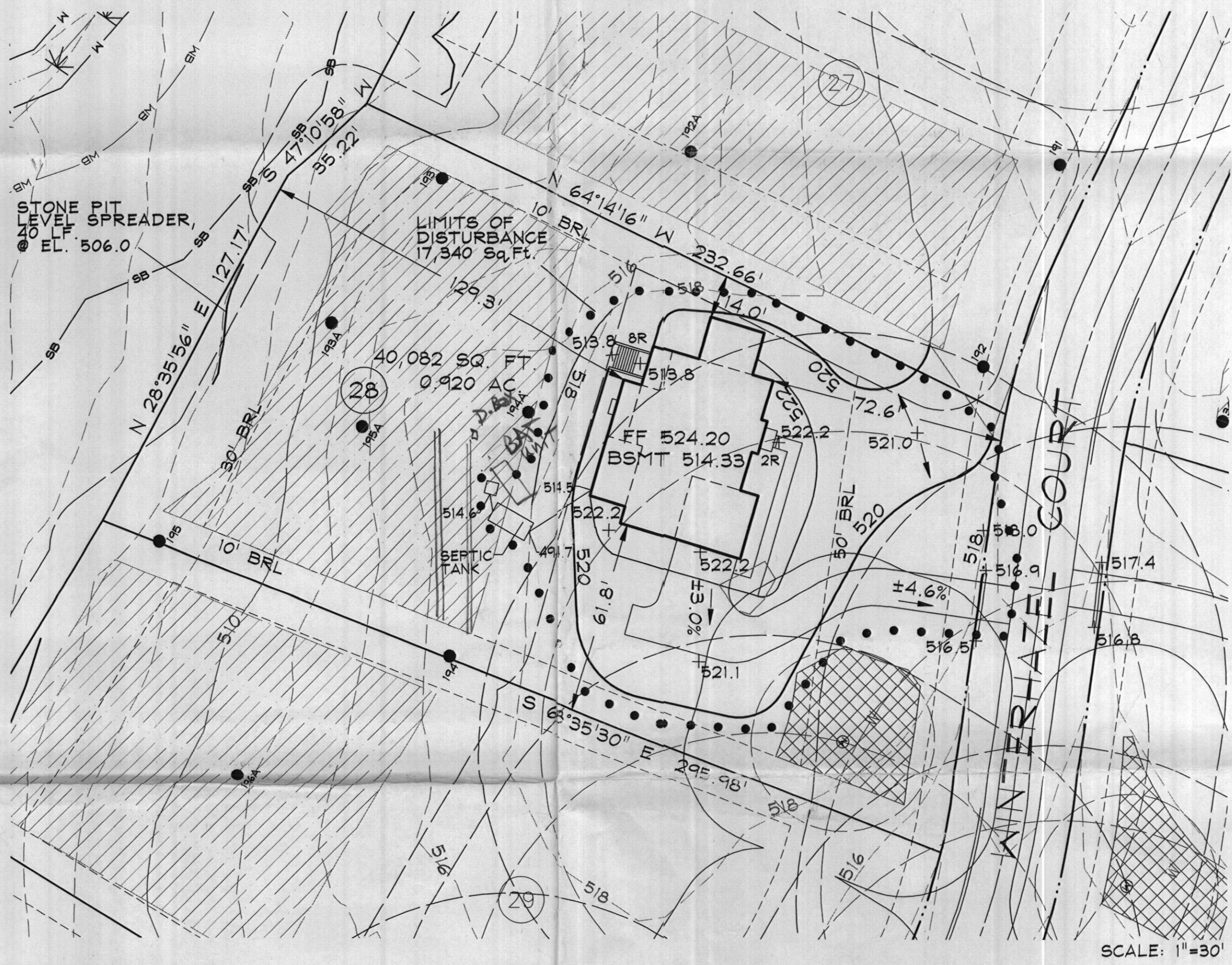


**VICINITY MAP**  
SCALE: 1" = 2000'



**COLORADO GEORGIAN ELEVATION BRICK FRONT**

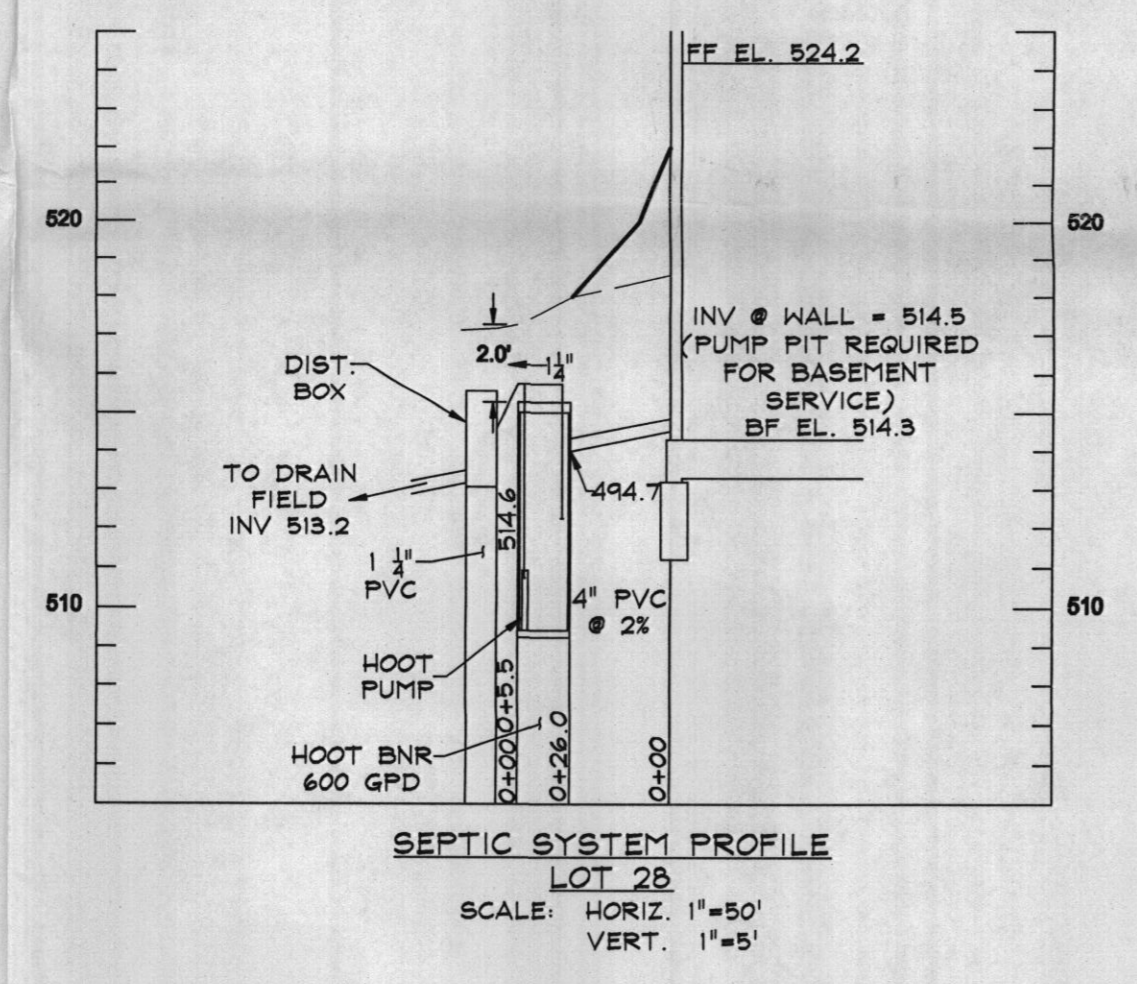
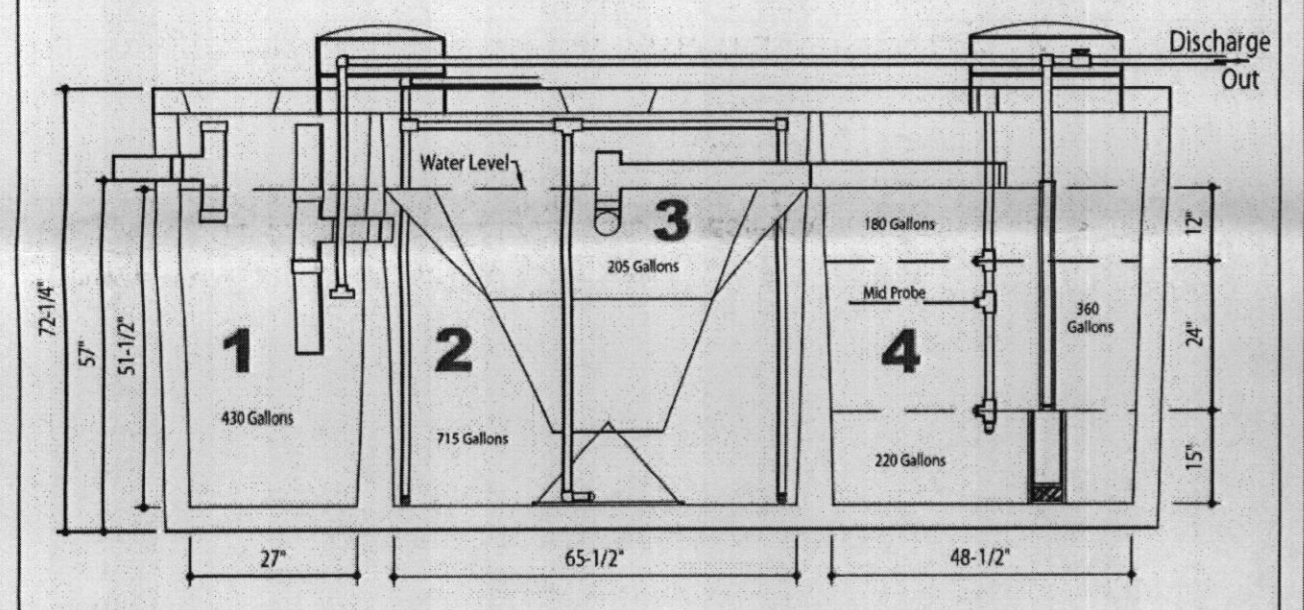
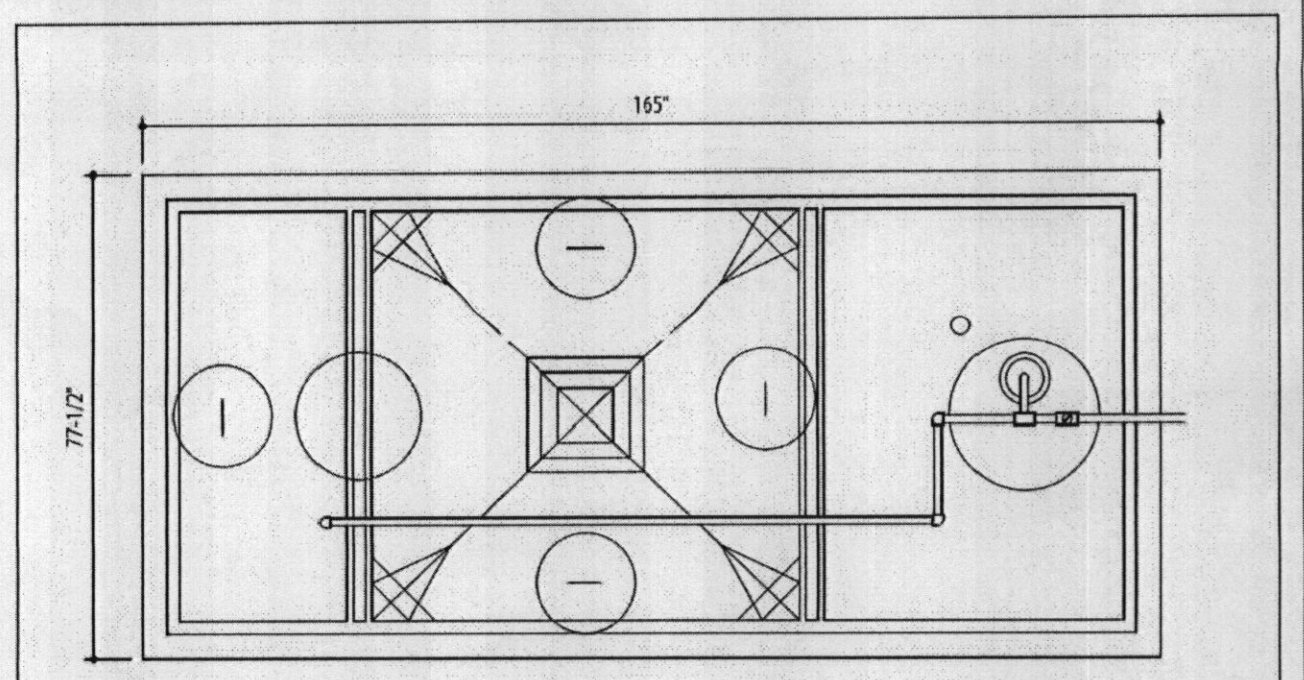
**DATA SOURCES:**



SCALE: 1" = 30'

**DRAWING LEGEND**

- 500 PROPOSED GRADE
- 502 PROPOSED GRADE
- EX. FAILED PERCOLATION TEST
- EX. PASSED PERCOLATION TEST
- ● ● ● PROPOSED LIMIT OF DISTURBANCE
- ← + 665.5 PROP. SPOT ELEV./FLOW ARROW
- ▨ SEPTIC RESERVE AREA
- ▩ WELL AREA



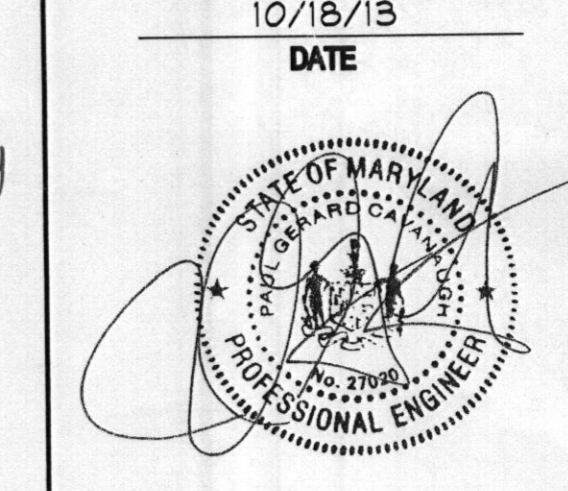
**SEWAGE DISPOSAL SYSTEM DATA (4 BEDROOM):**

1. INVERT @ FOUNDATION WALL: 514.5 (BASEMENT PUMP REQUIRED)
2. 600 GPD BNR SYSTEM w/ 750 GALLON PUMP CHAMBER  
EX. GRADE OVER TANK: 516.7  
PROPOSED GRADE OVER TANK: 516.7  
INVERT: 494.7
3. DISTRIBUTION BOX  
EX # PROPOSED GRADE OVER TANK: 508.0  
INVERT: 516.5

*Plan View & Profile Invert I/W at BT unit indicates the tank is too deep*

*Plan View Blower location Change P. Box location as indicated Show Trench locations Align BAT unit more directly between foundation & P. Box.*

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. 27020, Expiration Date: 01/25/14.



**DDC Inc.**  
Development Design Consultants

Planners  
Surveyors  
Engineers  
Landscape Architects

192 East Main Street  
Westminster, MD 21157  
410.386.0560  
410.386.0564 (Fax)  
DDC@DDCinc.us  
www.DDCinc.us

**OWNER:**  
K. HOVANNIAN HOMES  
1802 Brightwood Road  
Landover, Maryland 20785  
(301) 683-6288

**DEVELOPER:**

**SITE ADDRESS:**  
LOT 28  
2308 Winterhall Court  
Woodbine, Maryland 21797

**BELLE HAVEN ESTATES LOT 28**

**SITE PLAN FOR BAT INSTALLATION**

3rd ELECTION DISTRICT		HOWARD COUNTY	
REVISIONS			
NO.	DESCRIPTION OF CHANGES	DRN.	REV. DATE
CO. FILE #:	DES. BY: JHK		
TAX ACC. #:	DRN. BY: BKS		
TAX MAP: 14	CHK. BY: PGC		
BLOCK / GRID:	DATE: 10/21/13		
PARCEL #: 66	DDC JOB#: 06116.5		
ZONE / USE: RC-DEO	SHEET NUMBER:		
DWG. SCALE: 1"=30'	1 of 1		

**Mayer Brothers, Inc.**  
6164 Reed Road  
Elkridge, Maryland 21075  
Tel: 410.790.1434  
Fax: 410.790.1438  
www.mayerbrothersinc.com

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

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