

LAYOUT 10/26/06 INSP 4 \_\_\_\_\_  
INSP 2 12/5/06 INSP 5 \_\_\_\_\_  
INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE: 10/5/06

P 525244

APPROVAL DATE: 12/6/06

A 522519

**PERMIT**  
**INDEXED**  
**SANDMOUND SYSTEM**  
**ON-SITE SEWAGE DISPOSAL SYSTEM**  
**HOWARD COUNTY HEALTH DEPARTMENT**  
**BUREAU OF ENVIRONMENTAL HEALTH**  
*Tax ID # 04-332954*

Cumberland Development Corp. IS PERMITTED TO INSTALL  ALTER

ADDRESS: 16391 A. E. Mullinix Rd. PHONE NUMBER: 301-854-6325

SUBDIVISION: Brown Property LOT NUMBER: 9C

ADDRESS: 14596 Monticello Dr. PROPERTY OWNER: Charles Brown

SEPTIC TANK CAPACITY (GALLONS): 1000min OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1000min COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 3

SIZE(FLOW): 450 GPD GRAVEL BED SIZE: 40'L X 9'W

LOCATION:	Sand Mound to be installed. See Approved Septic System Plan dated 6/6/06
NOTES:	All Sand Mound sites are to be staked. Heavy equipment is not allowed on or directly down hill of any of the Sand Mound sites. Sand for mounds must meet specifications for conventional sand mound design. The only locally approved source for this sand is the <i>Processed And Washed Concrete Sand</i> supplied by S.W. Barrick & Sons' Woodsboro Facility. Approvable Sand Tickets will be required. Contact this office one day prior to expected start of the installation to schedule a layout inspection

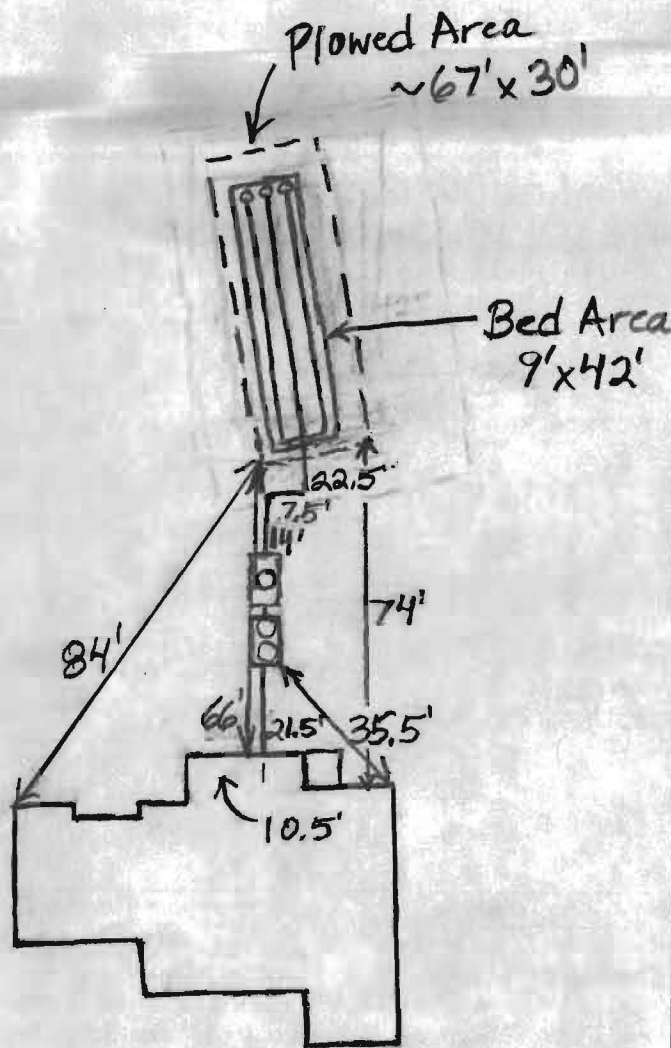
PLANS APPROVED: Michael J. Davis/GAC DATE: 10/5/06

NOTES: PERMIT VOID AFTER 2 YEARS  
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
WATERTIGHT SEPTIC TANKS REQUIRED  
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**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 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

A522619

NOT TO SCALE



SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1.5'-2.5'
BAFFLES	Yes
2 Comp. BAFFLE FILTER	Yes
Babylon MANHOLE LOC	Front+Rear
6" PORT LOC	None
WATERTIGHT TEST	No
PUMP TANK LEVEL	Yes
CAPACITY	1000 GAL
SEAM LOC	Top
Babylon TANK LID DEPTH	2.5'
Single BAFFLES	Front Tee
Comp. BAFFLE FILTER	None
MANHOLE LOC	Middle
6" PORT LOC	None
WATERTIGHT TEST	No

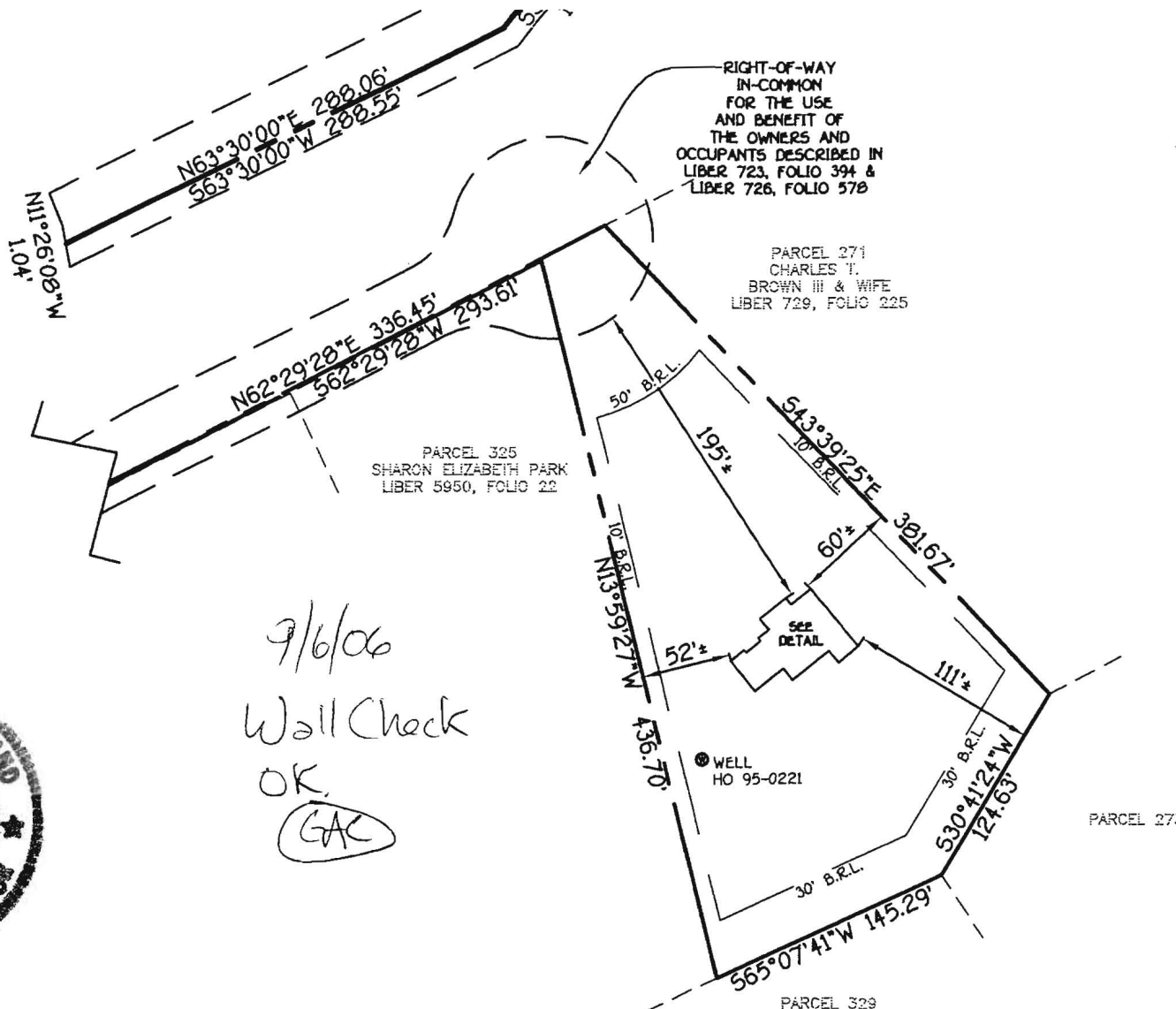
SAND MOUND DATA	
BED LENGTH	42'
BED WIDTH	9'
BED AREA	378 SQ FT
MOUND LENGTH	
MOUND WIDTH	
MOUND AREA	
BASAL AREA	SQ FT

PRE-CONSTRUCTION \_\_\_\_\_

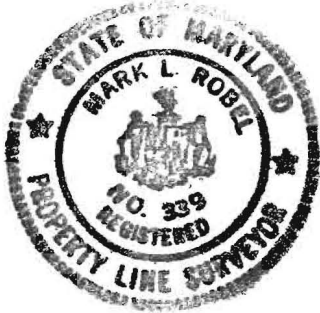
INSTALLATION 10/26/06 Tanks set. Plumbers finished. Need to final grade and seed mound. Grading to be done so that water washes around top of mound. Need pump, alarm and lateral test. (BB) 12/5/06 All laterals have ~2.5' of head. Alarm not on separate breaker. Need to rewire alarm. (BB) 12/6/06 Alarm wired correctly and working (BB)

FINAL INSPECTOR B. Baper DATE OF APPROVAL 12/6/06

MONTICELLO  
DRIVE



9/6/06  
Wall Check  
OK  
GAC



Mark L. Robel 7/24/06  
PROFESSIONAL LAND SURVEYOR DATE  
REG. • 339

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461 - 2855

\*14596 MONTICELLO DRIVE  
TAX MAP 8-GRID 17-PARCEL 326  
DEED REFERENCE: LIBER 0773, FOLIO 126  
SUBJECT TO AN EASEMENT FOR INGRESS & EGRESS AS  
SET FORTH IN A DECLARATION BY FORSYTHE ESTATES  
LIMITED PARTNERSHIP, DATED JUNE 25, 1975 AND RECORDED  
AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND  
IN LIBER 726, FOLIO 578  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TOP OF FOUNDATION ELEV.= 605.2'±

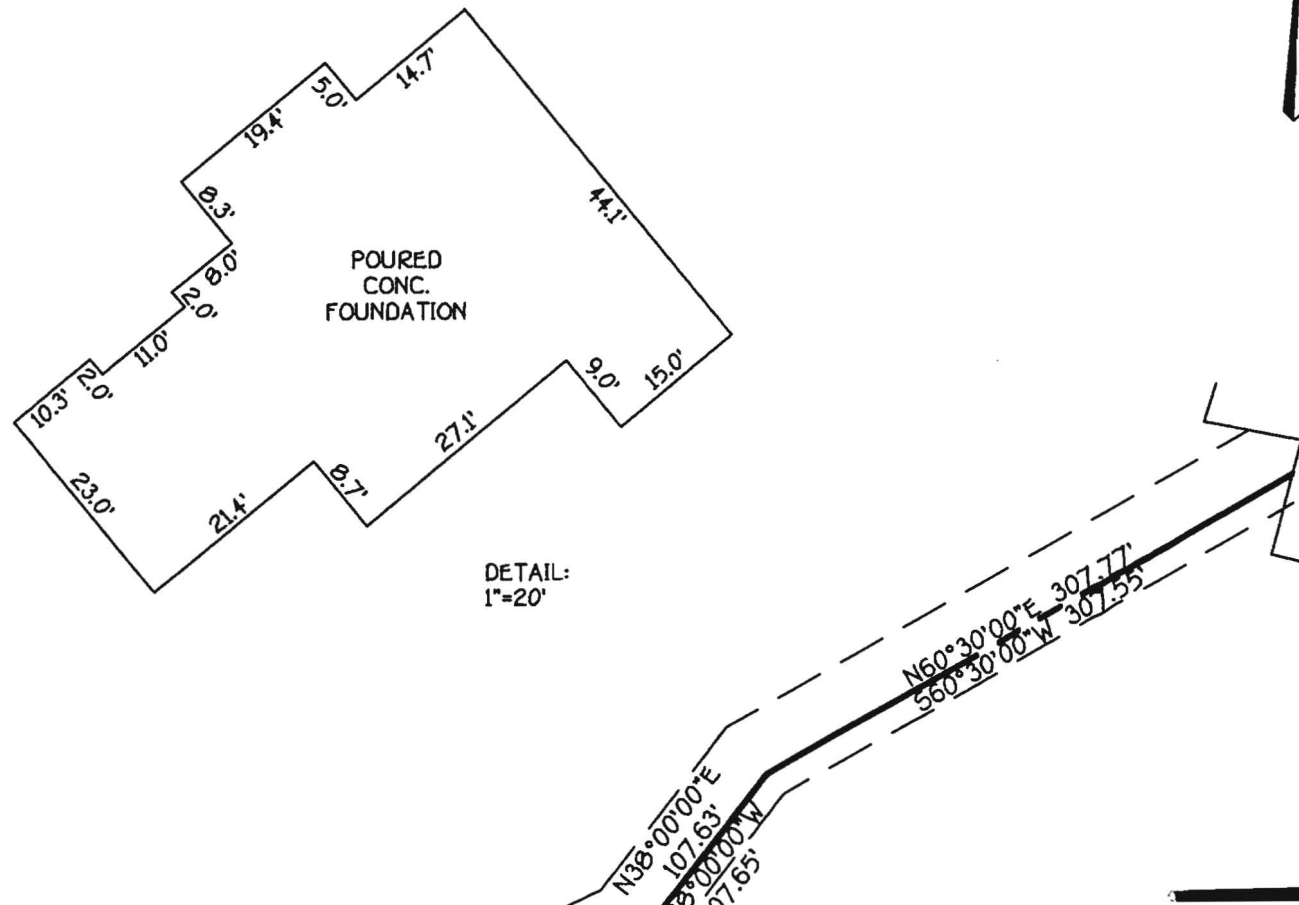
**HOUSE LOCATION  
DRAWING**

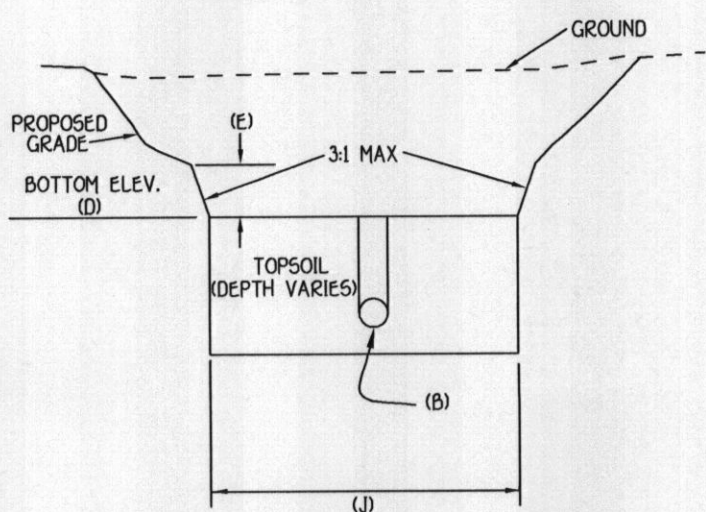
FOUNDATION LOCATION: 7/17/06  
FINAL LOCATION: \_\_\_\_\_  
BOUNDARY SURVEY: \_\_\_\_\_

SCALE: 1"=100'  
DATE: 07/26/06  
DRAWN BY: VLI  
CHECKED BY: MLR  
PROJECT No.: 05098-6001

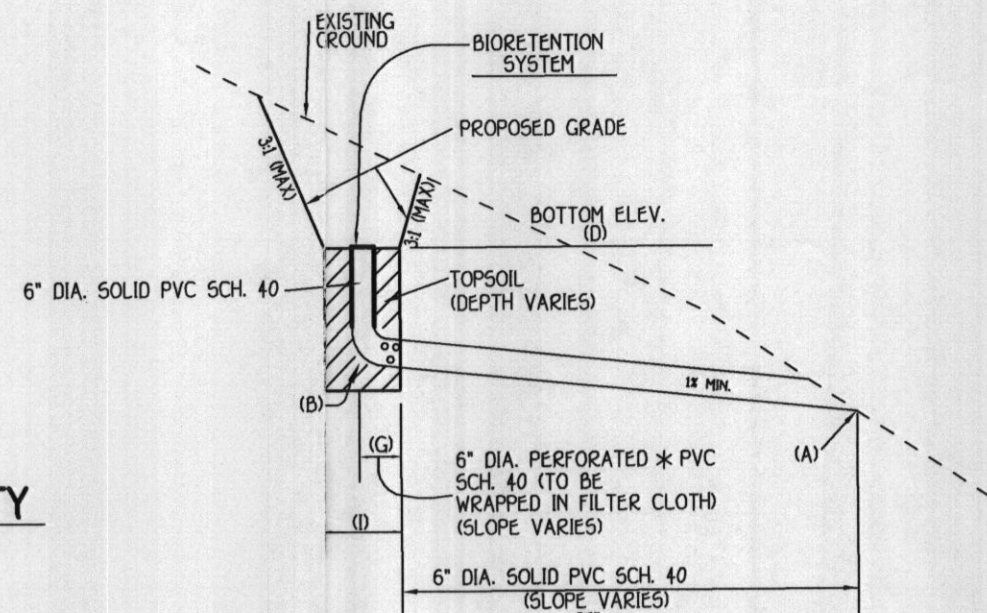
**GENERAL NOTES:**

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24004400088 EFFECTIVE DEC. 4, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1' (\*)
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO- 95 - 0221) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.





PROFILE ALONG BIO RETENTION FACILITY  
NO SCALE



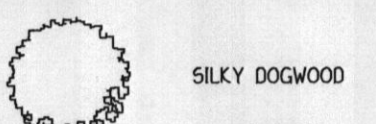
PROFILE ALONG 6" PVC OUTLET  
NO SCALE



MIXED PERENNIALS\*  
OUTLEAF CONIFER  
OR  
TRANSPARENT ASTER



MIXED GRASSES\*  
TUFTED FOXTAIL  
BROOM GRASS  
SWITCH GRASS

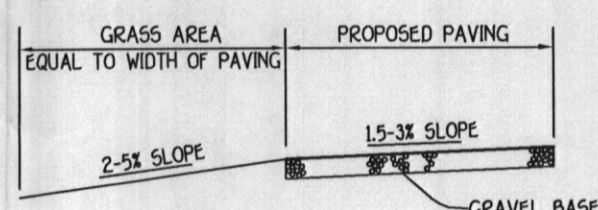


SILKY DOGWOOD

\* SEE PLANT MATERIAL CHARTS FOR QUANTITIES AND SPACING AT LEAST 50% OF THE SURFACE AREA OF THE RAINGARDEN

BIORETENTION FILTER PLANT MATERIAL		
QUANTITY	NAME	MAXIMUM SPACING (FT.)
23	MIXED PERENNIALS	1 FT.
23	MIXED GRASSES	1 FT.
1	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

BIORETENTION FILTER DATA										
BIORETENTION FILTER	A	B	C	D	E	F	G	H	I	J
1	390.50	392.00	N/A	394.50	395.00	21'	5.5'	N/A	11'	15'



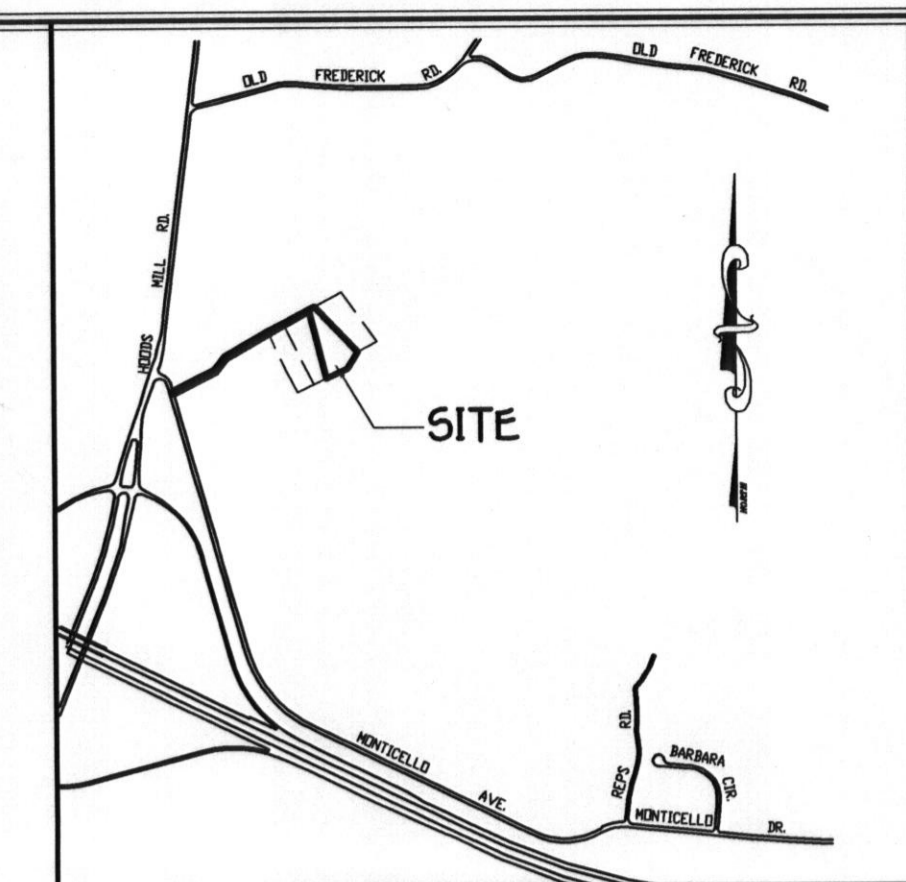
TYPICAL DRIVEWAY SECTION FOR NON-ROOFTOP DISCONNECT CREDIT  
NOT TO SCALE

BIORETENTION FILTER PLANTING DETAIL  
NOT TO SCALE

PRIVATE BIORETENTION FILTER OPERATION & MAINTENANCE SCHEDULE

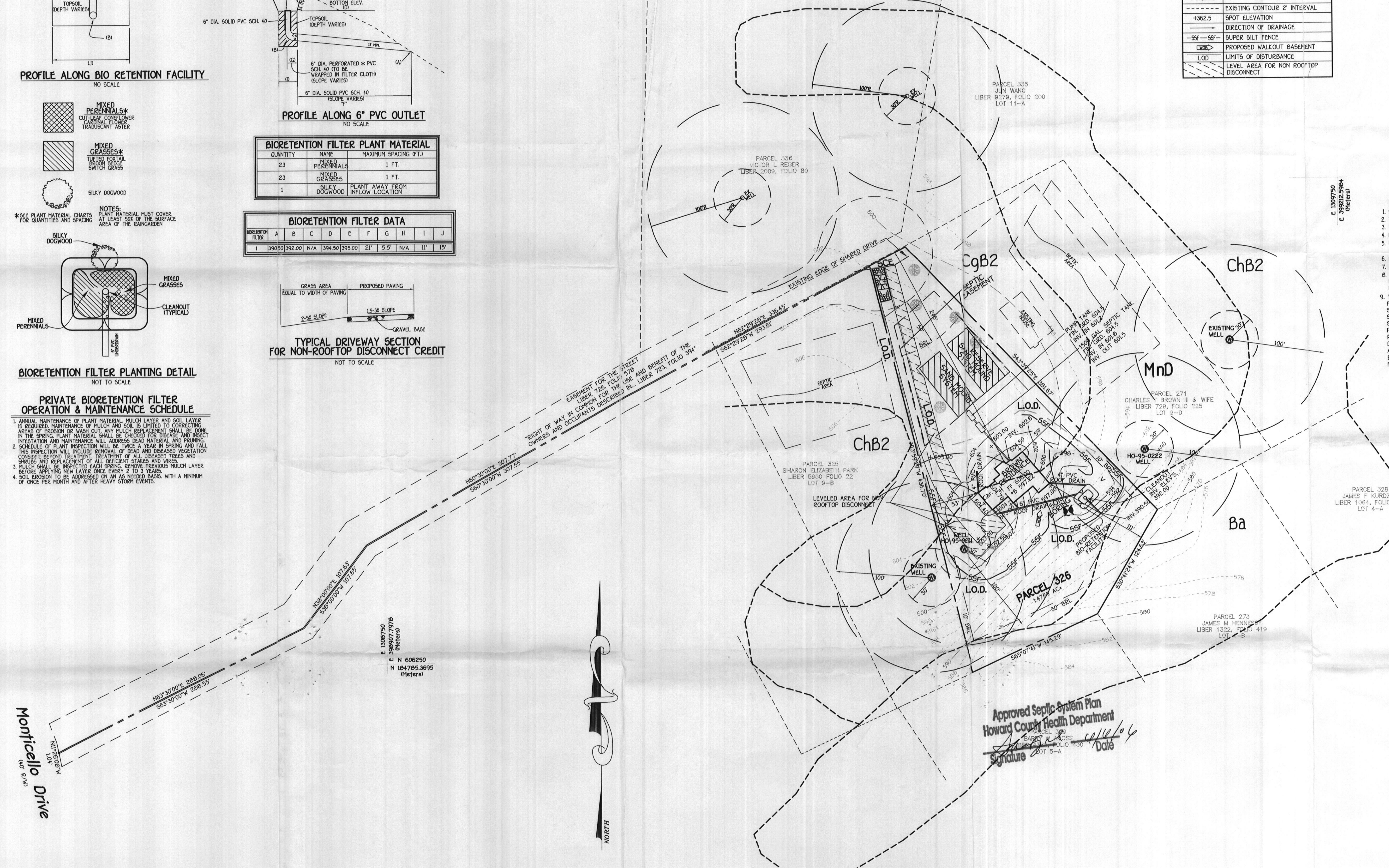
- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- SCHEDULE OF PLANT INSPECTION WILL BE THREE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAGES AND WINGS.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

LEGEND	
SYMBOL	DESCRIPTION
- - - - -	EXISTING CONTOUR 2' INTERVAL
+362.5	SPOT ELEVATION
- - - - -	DIRECTION OF DRAINAGE
SSP - SSP	SUPER SILT FENCE
-----	PROPOSED WALKOUT BASEMENT
-----	LIMITS OF DISTURBANCE
-----	LEVEL AREA FOR NON ROOFTOP DISCONNECT



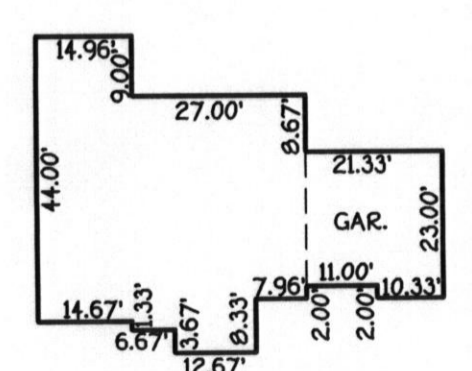
VICINITY MAP  
SCALE: 1" = 1200'

- GENERAL NOTES
- SUBJECT PROPERTY ZONED: RR-DEO
  - TOTAL AREA OF PROPERTY: 14769 ACRES. TOTAL AREA OF DISTURBANCE 22,650 SF
  - BASEMENT WILL NOT SEWER BY GRAVITY.
  - LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  - CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - EXISTING TOPOGRAPHY SHOWN WAS FIELD RUN BY FISHER COLLINS AND CARTER, INC.
  - NO WETLANDS CURRENTLY EXIST ON THE PROPERTY.
  - THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO 95-0221 HAS BEEN FIELD LOCATED BY FISHER COLLINS & CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
  - WATER QUALITY VOLUME AND GROUNDWATER RECHARGE REQUIREMENTS FOR THIS SITE WILL BE PROVIDED BY A PRIVATE BIORETENTION FILTER SYSTEM WITH AN UNDERDRAIN AND DRIVEWAY DISCONNECTIONS. THESE SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, VOLUMES I AND II. CHANNEL PROTECTION VOLUME MANAGEMENT WILL NOT BE REQUIRED BECAUSE THE RUNOFF RATE GENERATED BY THE 1 YEAR POST DEVELOPMENT PEAK DISCHARGE IS LESS THAN THE 2.0 C<sub>f</sub> AS MANDATED BY THE AFOREMENTIONED MANUAL. THE DRIVEWAY WILL BE DISCONNECTED BY THE USE OF PARALLEL LEVEL AREA TO PROMOTE VEGETATIVE FILTERING.



E 1309750  
N 606250  
E 998215.984  
N 184795.3695  
(Meters)

Approved Septic System Plan  
Howard County Health Department  
Signature: [Signature]  
Date: 05/10/06



BROWN RESIDENCE  
SCALE: 1" = 30'