

LAYOUT 6/26/09 INSP 4 7/17/09
INSP 2 7/14/09 INSP 5 _____
INSP 3 7/16/09 INSP 6 _____

ISSUE DATE: 7/13/2009 **PERMIT-HOOT H-600 BNR** P 531063
SEPTIC SYSTEM

APPROVAL DATE: 7/20/09 In Pat Trac A _____
TAX ID # 05-359457

**ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH**

Garland Brian INSTALL ALTER

ADDRESS: 12871 Highland Road, Highland, MD 20777 PHONE NUMBER: 301-370-5432

SUBDIVISION Casa Verde LOT 4

ADDRESS: 6541 Haviland Mill Road PROPERTY OWNER: Kenneth Dustin

HOOT SYSTEM BNR H-600 CAPACITY (GALLONS): 600gpd **Top Seamed Three Compartment Tank including Pump Tank**

PUMP CHAMBER CAPACITY (GALLONS): 760gal 60' x 82' 1.5' of Sidewall
3' Wide
2.5'-5'
5 Bedroom

LOCATION:	Existing tanks must be pumped and collapsed. Installation of new 'Hoot' system tank should be kept 100' from existing well or no closer than existing tanks.
NOTES:	A test of the blower, alarm, sensors in pump chamber, and the unit itself is required. Install Hoot system unit per manufacturer's instructions and no more than 3 feet below grade.

Note: *Certification start-up letter from manufacturer needs to be sent in to Health Dept. prior to septic system approval.*****

It must be verified that the existing system is functioning properly. If the existing system is inadequate or failing then some type of repair must be performed. This may require percolation testing and additional fees.

PLANS APPROVED: B. Baker DATE: 7/13/2009

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
CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

See As-Built Drawing
On Separate Sheet

TRENCH/DRAINFIELD DATA
(If Installed/Needed)

WIDTH	INLET	BOTTOM
<u>3</u>	<u>2.5'</u>	<u>5'</u>
NUMBER OF TRENCHES <u>2</u>		
TOTAL LENGTH <u>144'</u>		
ABSORPTION AREA <u>432+Sidewall</u>		
DIST. BOX LEVEL <u>Yes</u>		
DIST. BOX BAFFLE <u>Elbow</u>		
DIST. BOX PORT <u>Yes</u>		

HOOT 600 GPD BNR SYSTEM
BAY RESTORATION FUND

MANUFACTURER	<u>Mayer Bros.</u>
CAPACITY	<u>2000+ GAL</u>
SEAM LOCATION	<u>Top</u>
TANK LID DEPTH	<u>1.5'±3'</u>
FRONT BAFFLES	<u>Yes</u>
MANHOLE LOC	<u>Front+Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>No</u>
AERATOR FUNCTIONING	<u>Yes - Per Hoot</u>
ALARM FUNCTIONING	<u>Yes - Per Hoot</u>
DATE ON LID	<u>6/30/09</u>

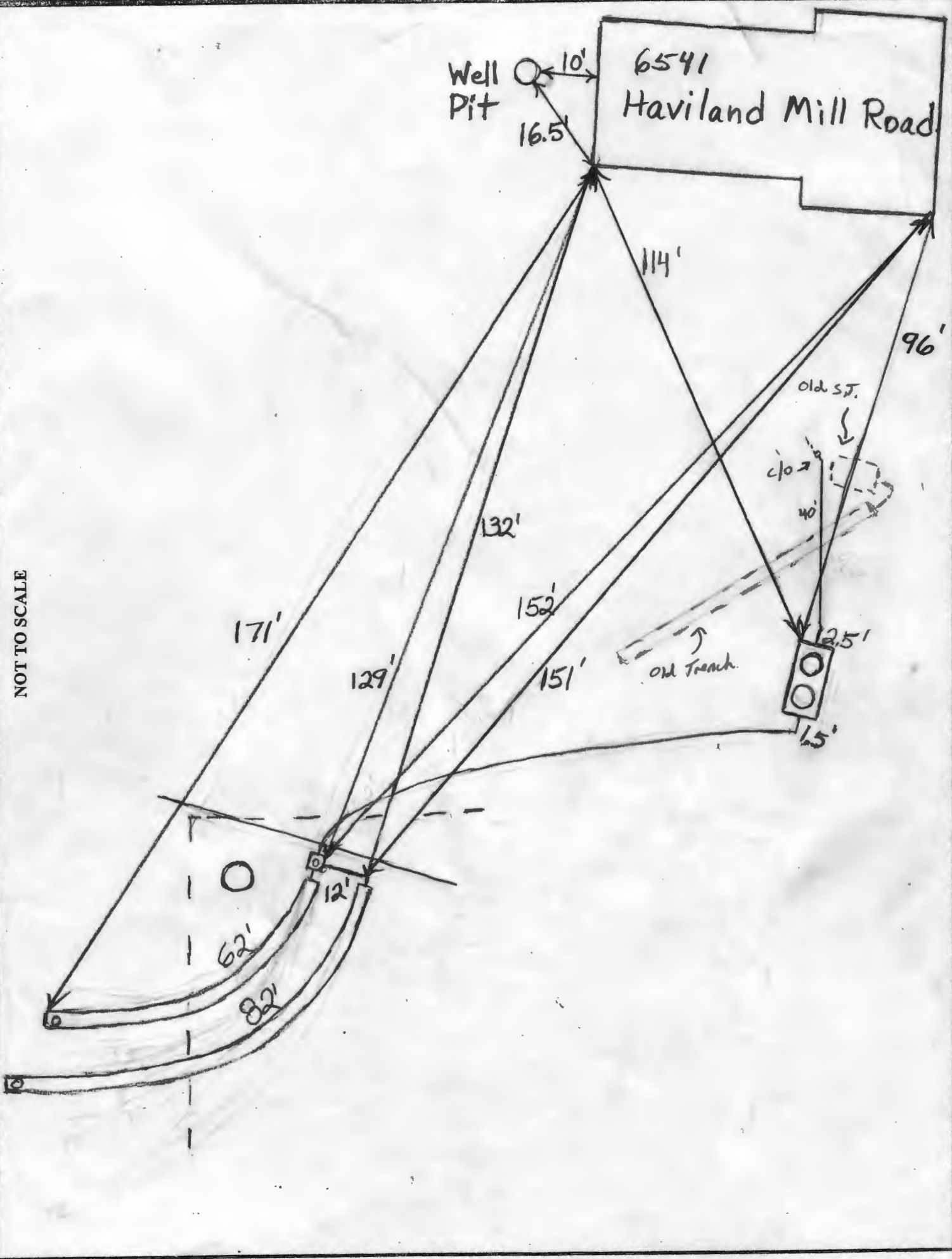
6/26/09 Did partial layout with contractor for tank. (BB)
 7/14/09 Dug perc. test hole near top of easement to confirm previous soil descriptions. Marked out trench and tank locations in field. (BB) 7/16/09
 Trenches, distribution and pump line installed. (BB)
 7/17/09 Hoot tank set and connected to pump line. (BB)
 7/20/09 Contractor finished install of 4" gravity line to tank. Start-up test verified. OK to backfill. (LSW)

FINAL INSPECTOR K. Wolf DATE OF APPROVAL 7/20/09

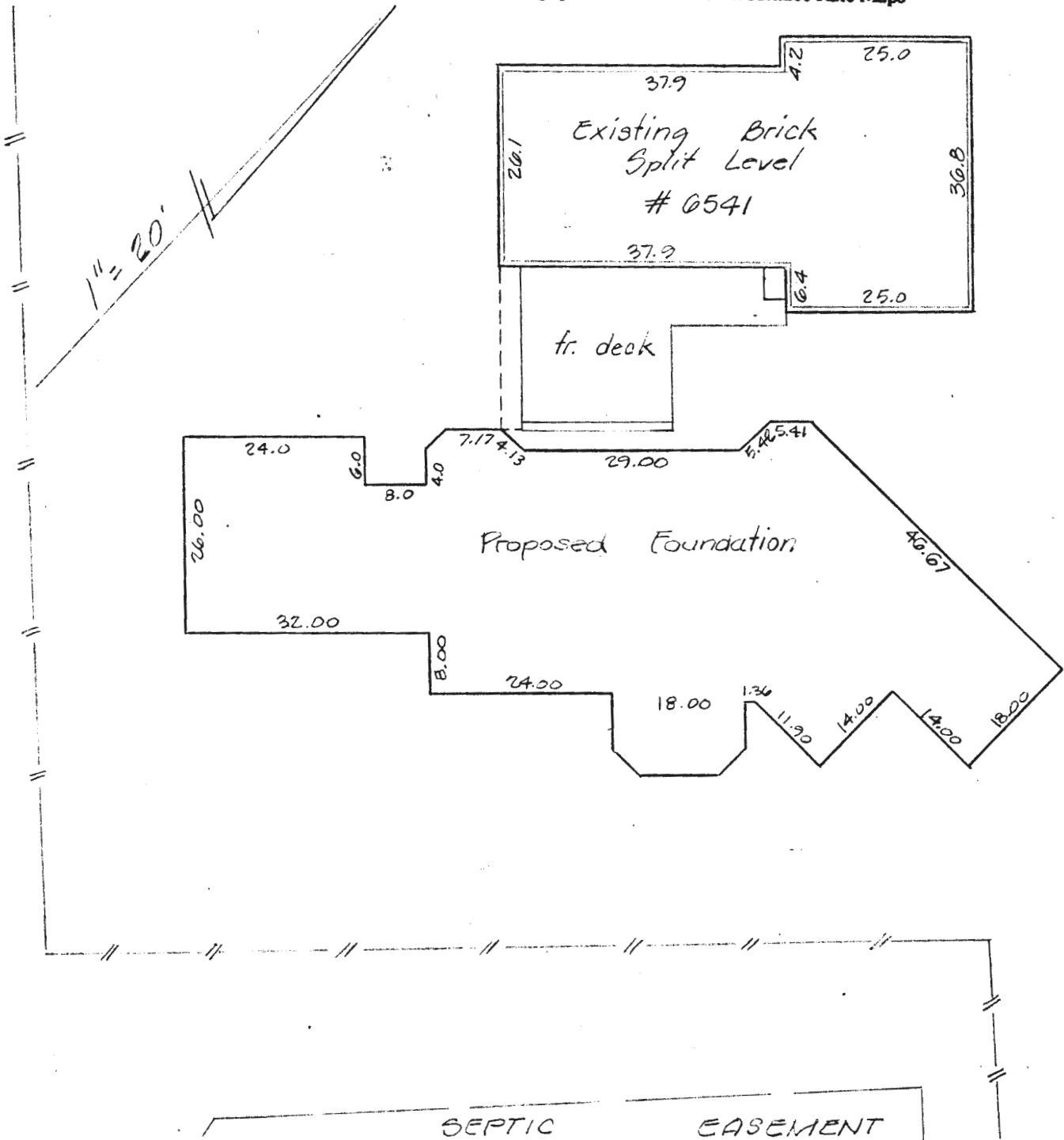
NOT TO SCALE

Well Pit

6541
Haviland Mill Road

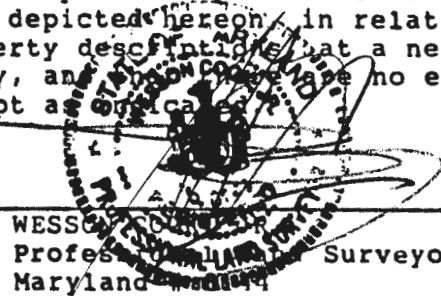


This site located in Area C (Area of minimal flooding) per F.E.M.A. Flood Insurance Rate Maps



I hereby certify that improvements have been located and depicted hereon in relation to recorded property descriptions at a nearest foot accuracy, and that there are no encroachments except as indicated.

4/6/09
Date



WESSAM
Registered Professional Surveyor
Maryland

- i) This plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing;
- ii) This plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements; and
- iii) This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing of financing or refinancing.

HOUSE LOCATION PLAT

Address 6541 Haviland Mill Road
 Lot 4, Block -, Section -, Area -
 Plat No. -; Plat Book -, Plat 9748

CASA VERDE

Howard County, Maryland
5th Election District

W. COOK & ASSOCIATES

13929 Wayside Drive
 Clarksville, MD 21029

Case No. Dustin Survey 090210

Tax ID -05-359457

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____
A 45300

DISTRICT _____

DATE _____

DATE SYSTEM APPROVED _____

INSPECTOR _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
481-9933

IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS _____ PHONE _____

SUBDIVISION Casa Verde LOT 4 ROAD 6541 Haviland Mill Rd

PROPERTY OWNER _____

ADDRESS _____

PLANS APPROVED BY _____ DATE _____

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS NOT ACCEPTABLE

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

45300

Tax ID -05-359457

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

A 45300

DISTRICT _____

DATE _____

DATE SYSTEM APPROVED _____

INSPECTOR _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

_____ IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS _____ PHONE _____

SUBDIVISION Casa Verde LOT 4 ROAD 6541 Haviland Mill Rd

PROPERTY OWNER _____

ADDRESS _____

PLANS APPROVED BY _____ DATE _____

COVER NO WORK UNTIL INSPECTED AND APPROVED

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NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

45300

Casa Verde

A 45300

SUBDIVISION: ~~STONE CREST OVERLOOK~~

LOT NUMBER: 4 Ex. House

Haviland Mill Rd DRY WELL OR DRY WELL AND TRENCH

_____ sq. ft./bedroom

	Septic Tank	Minimum Total Square Feet
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.
 Bottom maximum depth _____ feet below original grade.
 Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

Trench to be 2 wide.
 Inlet 4 feet below original grade.
 Bottom maximum depth 9 feet below original grade.
 Effective area begins at 4 feet below original grade.
5 feet of stone below distribution pipe.

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: 10/1/90 - PLACE THE DISTRIBUTION BOX 200 FT FROM THE SOUTH (618.42 FT) LOTLINE AND 230 FT FROM THE WEST LOTLINE ALONG HAVILAND MILL RD. RUN THE TRENCHES TOWARD THE SOUTH LOTLINE RH

1-16-90
10 am

APPLICATION

PERCOLATION TESTING

A 45300

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 461-9933

DISTRICT 5TH

DATE Nov. 29 1989

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER JORAH V. McCALMONT

ADDRESS 6541 HAVILAND MILL RD. CLARKSVILLE MD. 21029 PHONE _____

CONSULTING SURVEYOR S. J. MARTENET & Co., INC.

PROSPECTIVE BUYER
ADDRESS 190 W. Ostend St. Balto., Md. 21230 PHONE 539-4263

PROPERTY LOCATION:

SUBDIVISION STONECREST OVERLOOK LOT NO. 4 - existing house

ROAD AND DESCRIPTION 1/2 HAVILAND MILL RD. 3/8 mi ± So. of Brighton Dam Rd.

* This is the existing lot w/ an existing septic collection system.

TAX MAP 34 PARCEL # 56

SIZE OF LOT 9.273 Acres ± TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

Thomas J. Wilhelm (S.J. MARTENET & Co.)
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 1/17/90 - PERC OK HOLD FOR PLAT R/H

HD-216

THIS IS NOT A PERMIT

801.750

Wetlands	
Bearings & Distances	
13'27" E	8.43'
49'09" E	26.71'
26'58" E	27.01'
10'42" E	24.38'
34'13" E	40.43'
49'56" E	34.12'
49'02" W	8.71'
10'39" W	38.49'
46'15" W	33.87'
21'19" W	25.49'
40'23" W	29.87'
83'12" W	25.81'
11'38" W	8.26'
59'40" E	31.41'
54'34" E	52.35'
53'14" E	7.82'
83'57" W	2.99'
19'24" W	77.22'
19'24" E	19.62'

R: 249.34' L: 134.21'
(Total)
R: 467.18'
L: 88.41'

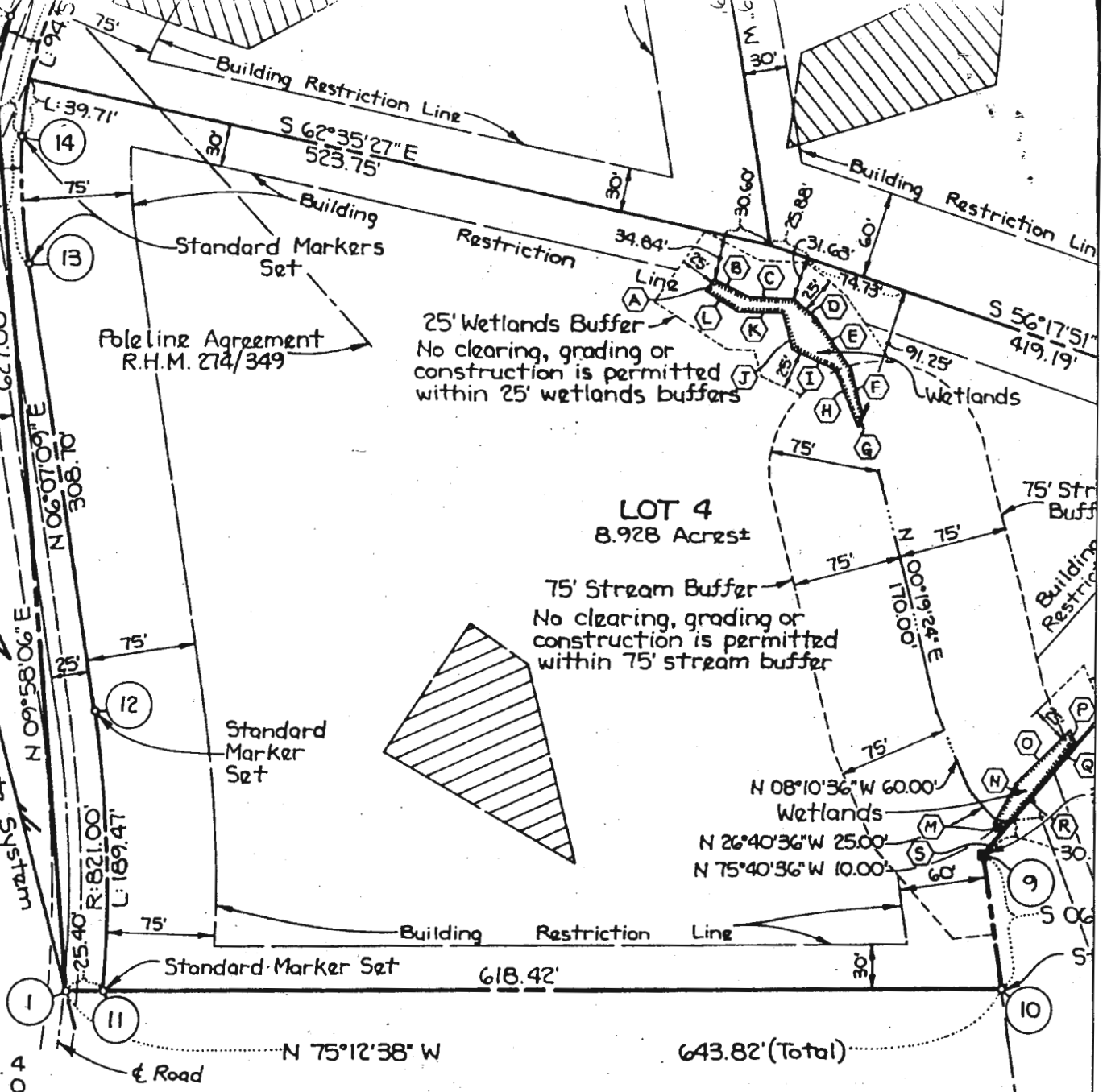
Existing Paving
MILL

€ Road

*Copy Signed
Record Plat E 801.750*

HAVILAND

Md. Coordinate System



LOT 4
8.928 Acres±

75' Stream Buffer
No clearing, grading or construction is permitted within 75' stream buffer

25' Wetlands Buffer
No clearing, grading or construction is permitted within 25' wetlands buffers

Area Tabulation

Number of buildable lots to be recorded	4
Number of open space lots to be recorded	0
Number of lots to be recorded	4
Area of buildable lots	19.105 Ac±
Area of open space	0.000 Ac±
Area of road R/W to be recorded	0.561 Ac±
Area of subdivision to be recorded	19.666 Ac±

G. W. SOMERVILLE
278/478

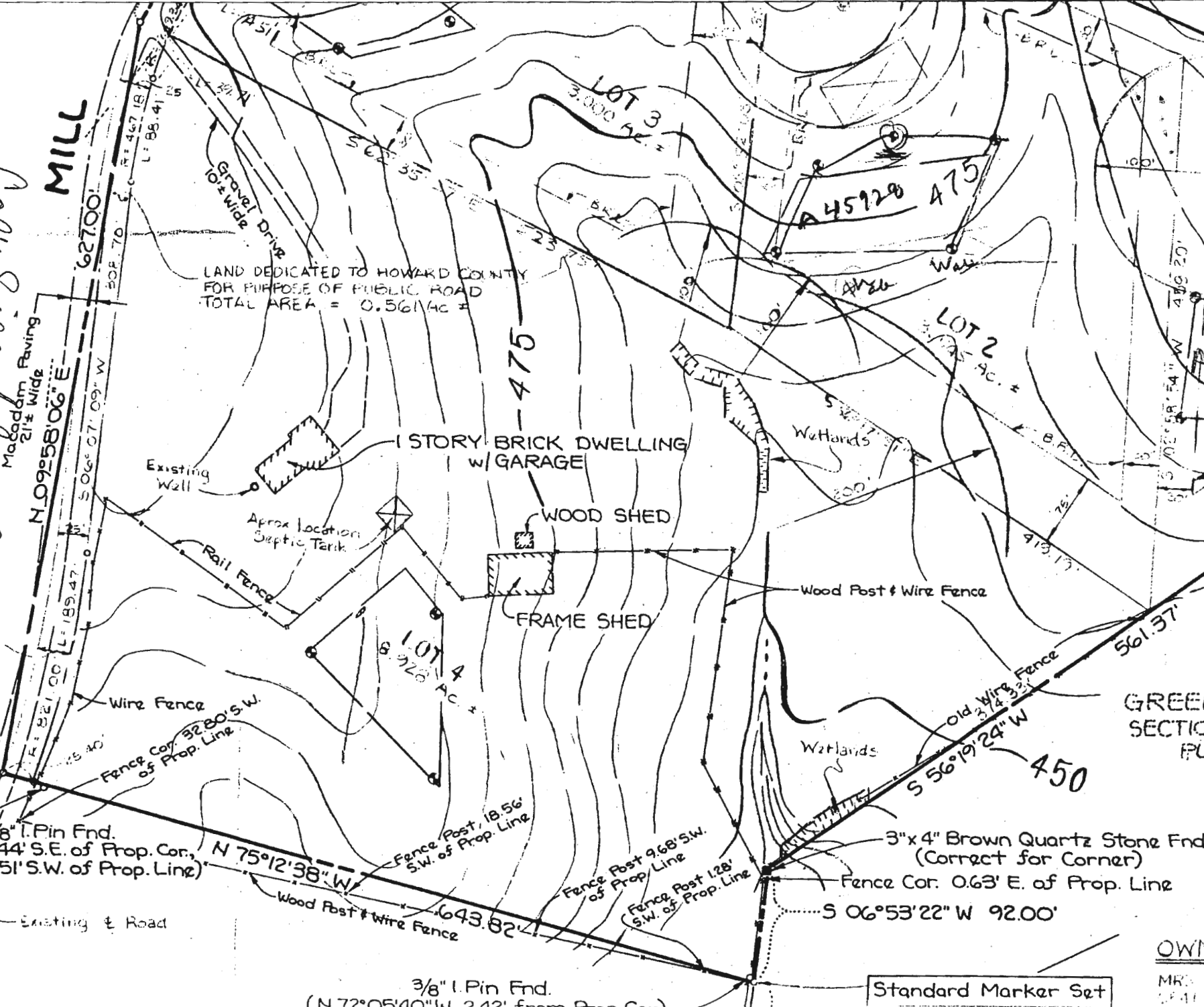
N 494,250
N 75°12'38" W
643.82' (Total)

Copy Signed Per Cert

AVILAND

MILL

LAND DEDICATED TO HOWARD COUNTY FOR PURPOSE OF PUBLIC ROAD
TOTAL AREA = 0.561 AC ±



Macadam Paving
21'± Wide
N 09° 58' 06\"

Wire Fence
Fence Cor. 32.80' S.W.
of Prop. Line

3/8" I. Pin Fnd.
(37.44' S.E. of Prop. Cor.,
0.51' S.W. of Prop. Line)

Existing & Road

N 75° 12' 38\"

Fence Post 18.56'
S.W. of Prop. Line

Wood Post & Wire Fence
643.82'

3/8" I. Pin Fnd.
(N 72° 05' 40\" W 2.42' from Prop. Cor.)

1 STORY BRICK DWELLING
w/ GARAGE

WOOD SHED

FRAME SHED

Wood Post & Wire Fence

Wetlands

3"x4" Brown Quartz Stone Fnd.
(Correct for Corner)

Fence Cor. 0.63' E. of Prop. Line

S 06° 53' 22\" W 92.00'

Standard Marker Set

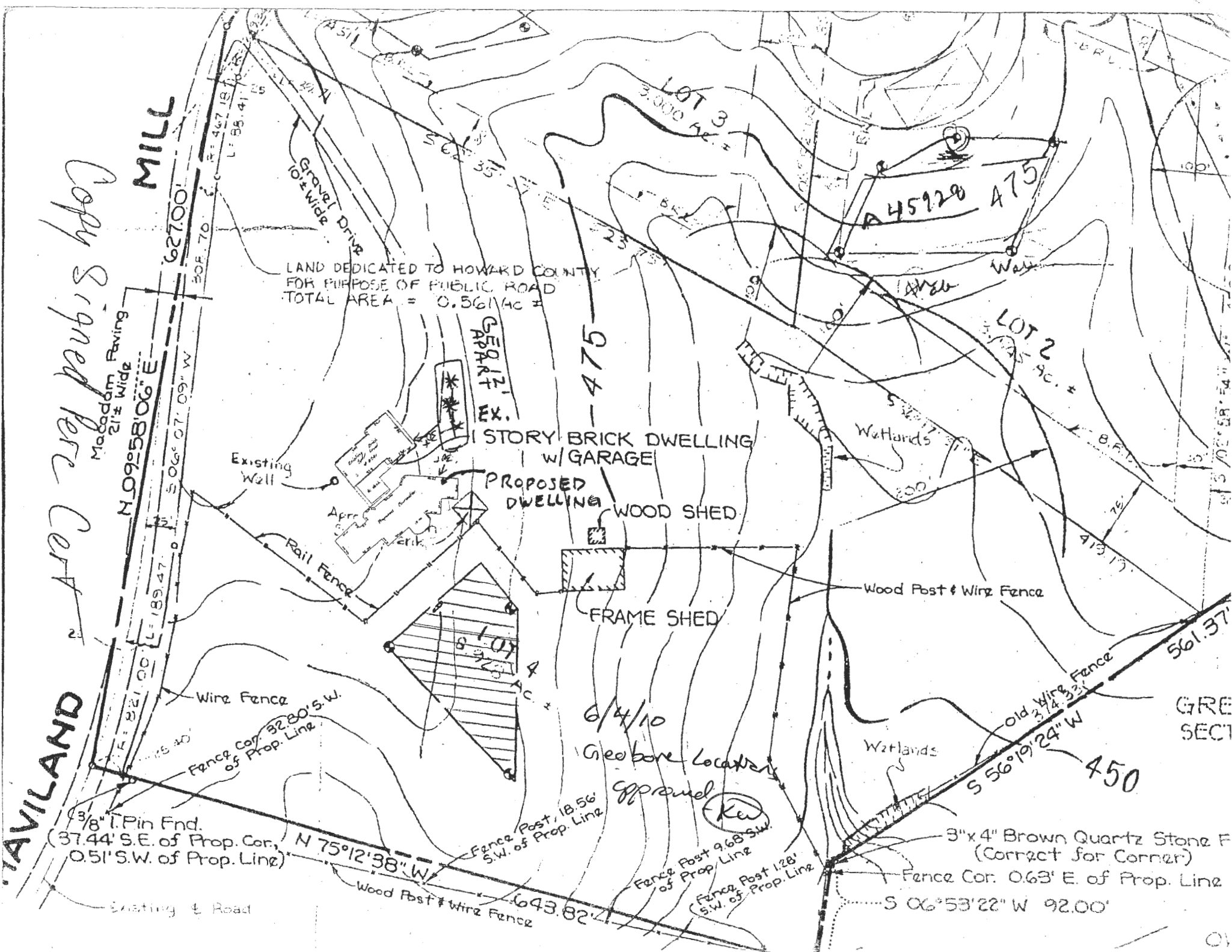
GREEN
SECTION
PLAT

450

Old Wire Fence
S 56° 19' 24\" W

OWNE

MRS. SA
1941



Copy Signed Per Cert

MILL

AVILAND

LAND DEDICATED TO HOWARD COUNTY
FOR PURPOSE OF PUBLIC ROAD
TOTAL AREA = 0.5614c ±

GEORGE
APR 17
EX.

1 STORY BRICK DWELLING
W/GARAGE

PROPOSED
DWELLING

WOOD SHED

FRAME SHED

6/4/10

Geobone Locality

Approved

(Ke)

LOT 2
25.90 ac ±

LOT 3
3.000 ac ±

A 45120 A 75

450

GRE
SECT

3/8" I. Pin Fnd.
(37.44' S.E. of Prop. Cor.,
0.51' S.W. of Prop. Line)

N 75°12'38" W
Fence Post, 18.56'
S.W. of Prop. Line

Fence Post 9.68' SW
of Prop. Line

Fence Post 1.28'
S.W. of Prop. Line

3" x 4" Brown Quartz Stone F
(Correct for Corner)
Fence Cor. 0.63' E. of Prop. Line

S 06°53'22" W 92.00'

N 09°58'06" E
L= 189.47'

S 06°07'09" W
L= 506.07'

627.00'

Rail Fence

Wire Fence
Fence Cor. 32.80' S.W.
of Prop. Line

Existing E Road

Gravel Drive
10'± Wide

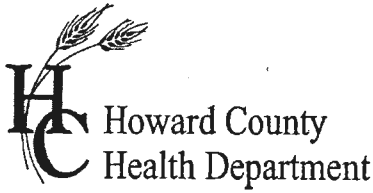
Wetlands

Wood Post & Wire Fence

Wetlands

Old Wire Fence

561.37'



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ @P 45300

AGENCY REVIEW: _____ DATE _____

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH _____ PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 6541 Haviland Mill Road
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) _____ GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

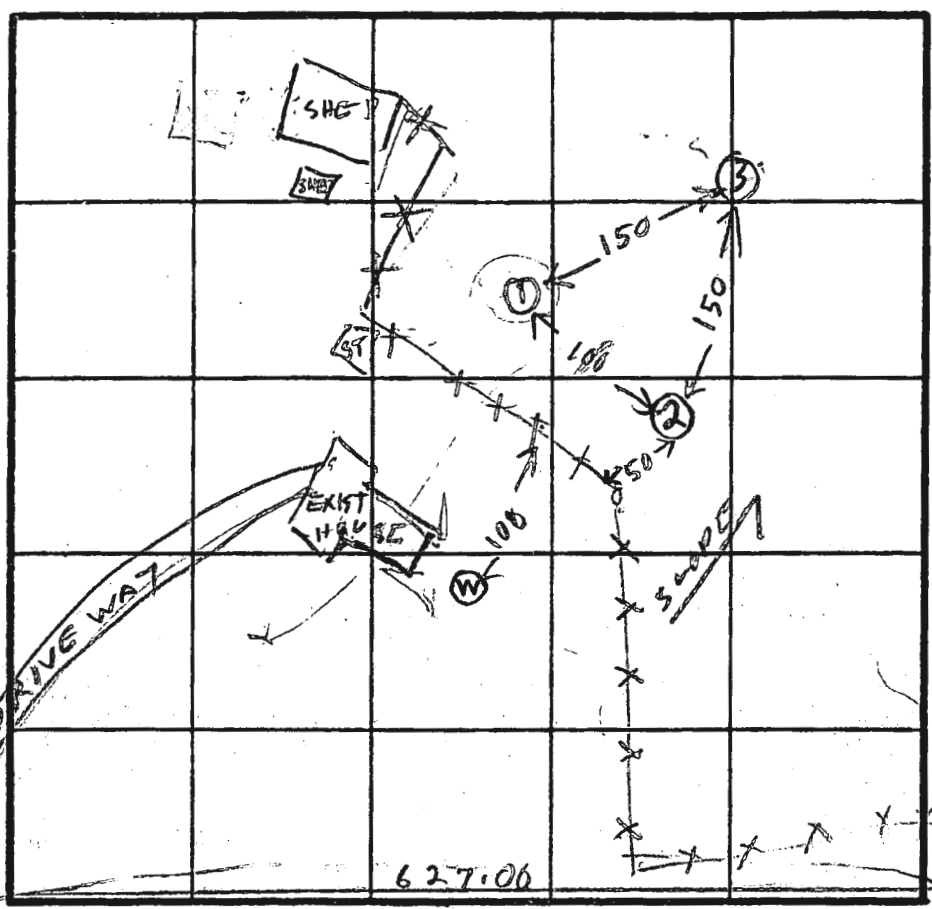
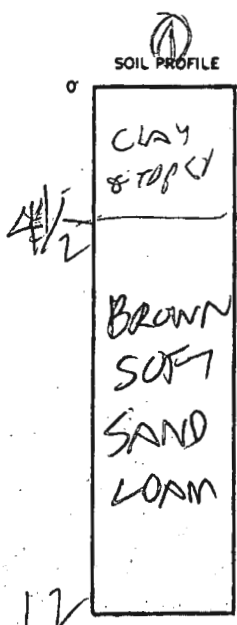
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. _____
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

7 45 300
 LOT 4 EXISTING HOUSE

SEC TEST PLAT

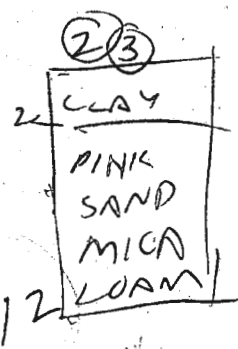


643.82

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
 HAVILAND MILL RD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
11/16/90	1S 1D	3.5 8.5	1038 1039	1055 1037	1039	1042	3
	2V	12	OK				
	2S 2D	3 8	1041 1041	1047 1048	1047 1048	1050 1050	3 2
	2V	12	OK				
	3S	3	1045	1048	1048	1052	4
	3V	12	OK				

AV TIME
 3 MIN
 MAX DEPTH
 INLET
 4 FT
 MAX DEPTH
 BOTTOM
 8 FT



REMARKS PERC OK HOLD FOR PLAT NO TEST HOLE SHOWN ON TEST PLAT

TYPE OF SOIL _____
 TESTED BY B. Hodges ALSO PRESENT Wayne Backhoe
Tom Surveyor

Owner: Kenneth Dustin
240-508-3052

6541 Haviland Mill Rd

Scale = 1" = 100'

Legend:

▨ Septic easement

○ Existing well

- Existing home to be cleared upon completion of new home

- Existing septic to be upgraded

- Existing septic location where old tank is empty

● passed per 1-10-90

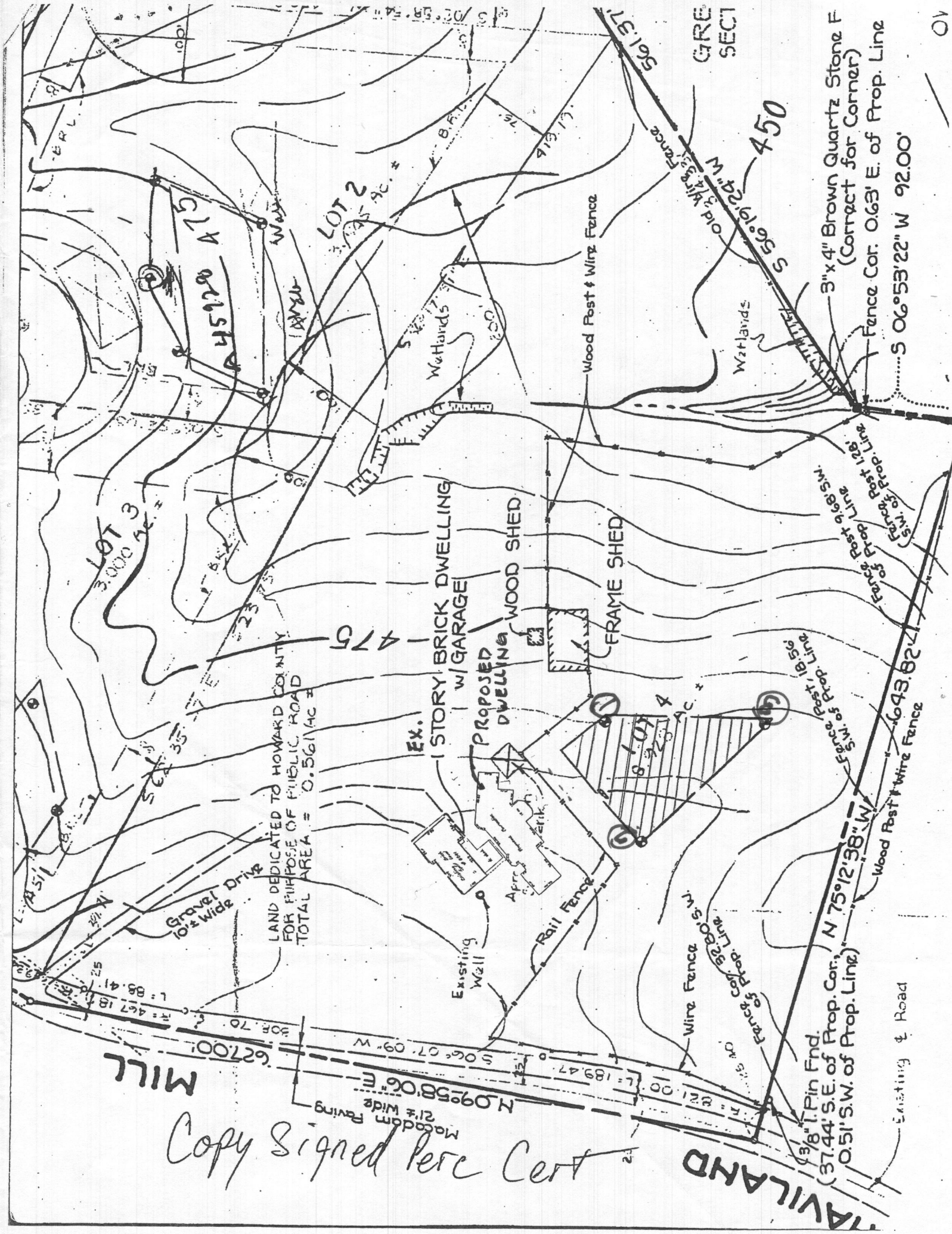
- Any changes to a private sewage easement shall require a revised percolation certification plan
- The topography of this plat is taken from 1989 and is verified to accurately represent the relative changes on the subject property
- All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown
- Certification of compliance with MDE ownership with the minimum ownership width and lot after 1985:
- The lot(s) shown hereon complies/comply with the Maryland Department of Environment area as required by the Maryland Department of Environment

/// "This area designates a private sewage disposal area as required by the Maryland Department of 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 disposal area."

"I certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."

Norwith M. [Signature]
COUNCIL 7-7-09

"Approved For Private Water and Private Sewerage Systems"
Health Officer, Howard County Health Dept.
Date: 7/10/00



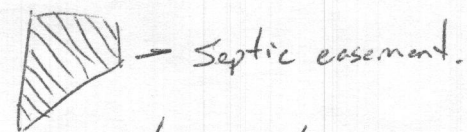
Copy Signed Perc Cert

Scale = 1" : 100'

6541 Haviland Mill Rd

Owner: Kenneth Dustin
240-508-3052

Legend:



- Existing well
- Existing home to be demod upon completion of new home
- Existing septic to be upgraded. Heat System.
- Proposed septic location were old tank is on plan
- passed perc 1-10-90

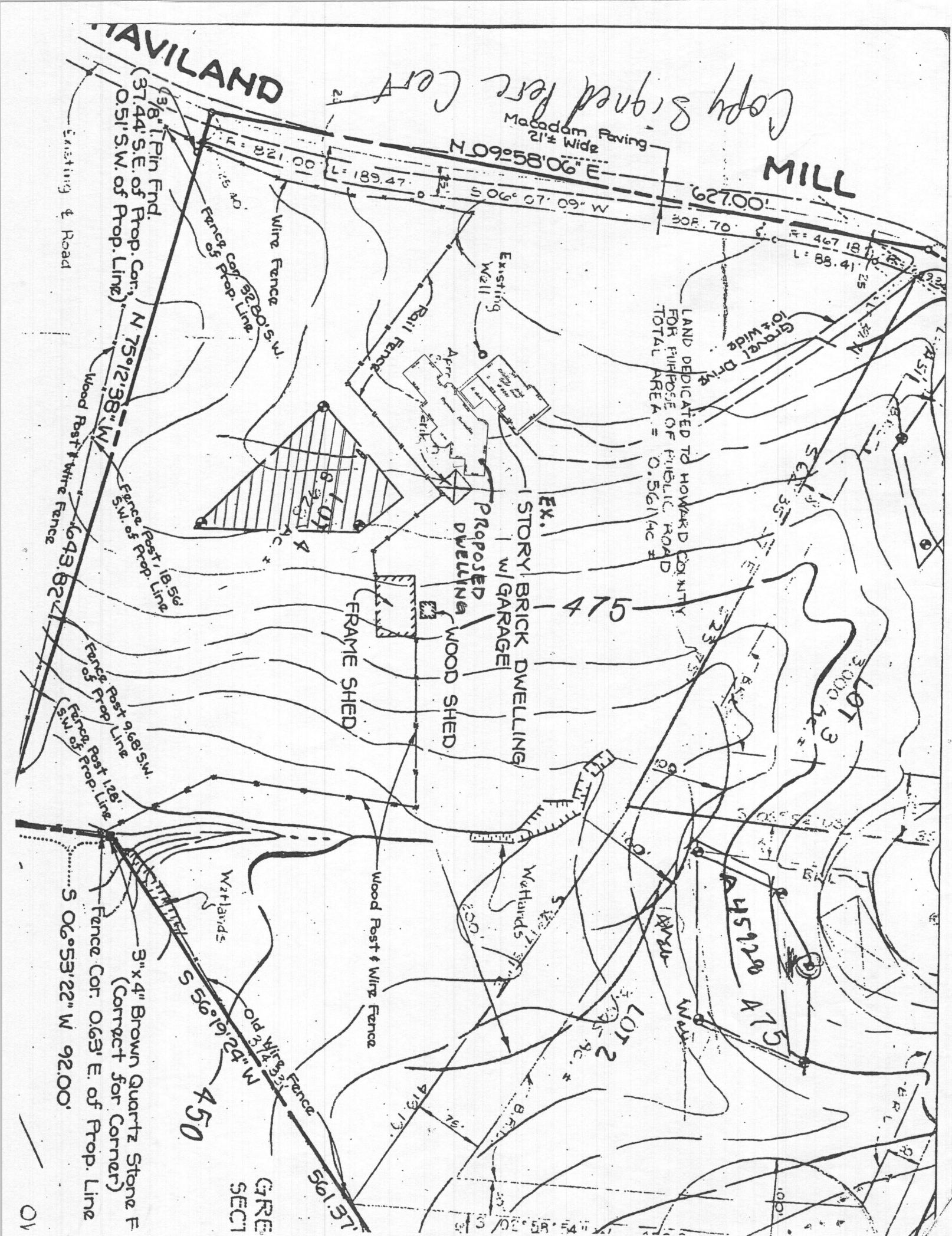
- Any changes to a private sewage easement shall require a revised percolation certification plan
 - The topography of this plat is taken from Perce Cert. 1989 and is verified to accurately represent the relative changes on the subject property
 - All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown
- Certification of compliance with MDE ownership width and lot area requirements for lots created after 1985:
- The lot(s) shown hereon complies/comply with the minimum ownership width and lot area as required by the Maryland Department of Environment

////// "This area designates a private sewage disposal area as required by the Maryland Department of 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 disposal area."

"I certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief."

Kenneth A. Dustin
OWNER 7-7-09

"Approved For Private Water and Private Sewerage Systems"
 Health Officer, Howard County Health. Dept. Date 7/10/09



Copy Signed Per Cert

MILL

AVILAND

LAND DEDICATED TO HOWARD COUNTY FOR PURPOSE OF PUBLIC ROAD TOTAL AREA = 0.5614 AC ±

LOT 3 3,000 sq. ft.

45128 475

LOT 2 2,925 sq. ft.

1 STORY BRICK DWELLING w/ GARAGE

WOOD SHED

FRAME SHED

LOT 4 8,925 sq. ft.

Wood Post & Wire Fence

Macadam Paving 21'± Wide N 09°58'06" E

L= 321.00 L= 189.47 S 06°07'09" W

Existing Wall

Approx Location Septic Tank

Rail Fence

Wire Fence Fence Cor. 32.80' S.W. of Prop. Line

3/8" I. Pin Fnd. (37.44' S.E. of Prop. Cor., 0.51' S.W. of Prop. Line)

N 75°12'38" W

Fence Post, 18.56' S.W. of Prop. Line

Fence Post 9.68' S.W. of Prop. Line

Fence Post 128' S.W. of Prop. Line

3" x 4" Brown Quartz Stone F (Correct for Corner)

Fence Cor. 0.63' E. of Prop. Line

S 06°53'22" W 92.00'

Wood Post & Wire Fence

3/8" I. Pin Fnd.

Standard Marker Set

GRE SECT

OV MR

4410: 05-359457

EMERGENCY/TEMP NO. IF ANY

B 1 6747

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 533251 please type

STATE PERMIT NUMBER

HO-95-1918 fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13 15 Last Name Owner First Name 34 6541 Havelard Mill Rd 36 Street or RFD 55 Clarksville Md 21029 57 Town 70 State 72 Zip 76

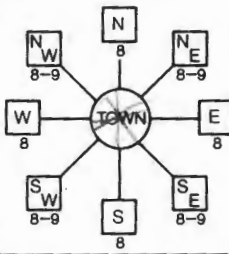
B 3 LOCATION OF WELL

8 COUNTY Howard 21 Casa Verde 23 SUBDIVISION 42 SECTION 44 46 LOT 4 48 50 Clarksville 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 73 76 77 78

DRILLER INFORMATION

Driller's Name Marshall Bennett MS D 106 License No. 81 Firm Name Allied Environmental Services Address PO Box 1242, Millerville Md Signature Date 5/18/10

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



11 2 6541 E. Havelard Mill Rd 30 NEAR WHAT ROAD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH N WEST W EAST E SOUTH S DISTANCE FROM ROAD ENTER FT OR MI 34 37 38 39 TAX MAP: 34 BLK: 19 PARCEL 56

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL 3@ 400' - OK

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 6/4/10 43/ MM DD YY 48 CO SIGNATURE Phil Wall 6/4/11 EXP. DATE NORTH GRID 495 000 EAST GRID 0800 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 24 400 28 FEET APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVerse-ROTary DRive-POINT other

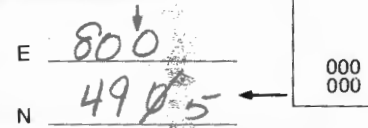
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

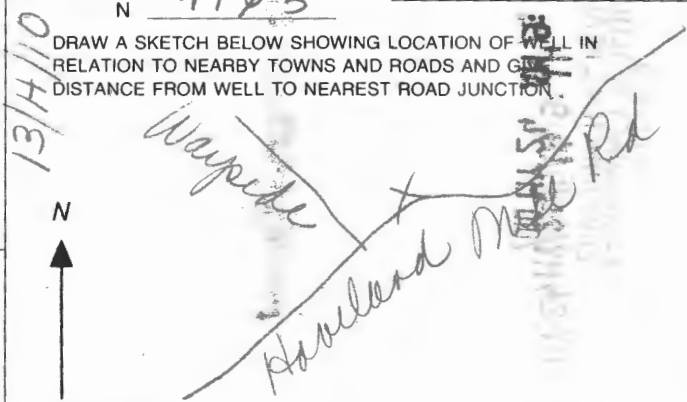
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER 1. Driller Well 2. 3. X

WRITE THE BOX NUMBER FROM THE MAP HERE



DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION.



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER G PERMIT No. HO-95-1918 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

MOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.
 1413 Old Farm to Market, Westminster, MD 21157, USA TEL: 410-570-4555 FAX: 410-570-4126

REPORT OF ANALYSIS

Laboratory ID #:	79677	Account #:	13973
Reference:	Irene Dustin	Company:	CASH ACCOUNT
Location:	6541 Haviland Mill Road Clarksville, MD 21029	Requested By:	Irene Dustin
Date/ Time Collected:	5/26/2011 1130	Source:	Well Water
Date/Time Rec'd:	5/26/2011 1445	Site:	Kitchen Sink Tap
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	B. Dutterer 4717BD	pH:	5.8
		Well #:	No Tag**

PARAMETER	RESULTS	UNITS	REFERENCE RANGE	LAB ID	DATE/TIME
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	5/27/2011 / 1000 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	5/27/2011 / 1000 / CCH
Nitrate	2.26	mg/L	10	601	5/27/2011 / 0930 / CCH
Turbidity	0.66	NTU	<10	SM18 2130B	5/27/2011 / 0805 / CCH
Sand	NS	mg/L	5	Visual/Gravimetric	5/27/2011 / 0830 / CCH

NOTES

- 1 **Existing Well
 - 2 mg/L = milligrams per liter (also, parts per million)
 - 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
 - 4 NS = None Seen (NS indicates less than 5 mg/L)
 - 5 NTU = Nephelometric Turbidity Units
 - 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
 - 7 ND:None Detected
 - 8 Visual well check: Sealed, vented cap
 - 9 pH and Chlorine level tested on site
- Reason for Test : Use & Occupancy
 Building Permit # : B09002490

Date Reported: 5/27/2011



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

May 31, 2011

Homeowner
6541 Haviland Mill Road
Clarksville, MD 21029

RE: Casa Verde, Lot 4
6541 Haviland Mill Road
BP #: B09002490
Well Permit # :No Tag

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 07/20/2009. Final approval of the well line connection to the dwelling was approved on 5/24/2011.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

Enclosed with this certificate, are copies of the septic permit and the as-built, along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-. No Tag. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 05/26/2011
Date of Well Upgrade: 05/23/2011

Approving Authority,



Robert Bricker, R.S., R.E.H.S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

Building Address 10011 2nd St
 Suite/Apt. #: _____ SDP/WP/Petition #: _____
 Census Tract 1001.01 Subdivision Green Valley
 Section _____ Area _____ Lot 4
 Tax Map 44 Parcel 56 Grid 11
 Zoning R-10 Map Coordinates _____ Lot Size _____
 Existing Use Commercial
 Proposed Use Commercial
 Estimated Construction Cost \$ _____
 Description of Work Commercial
 Occupant or Tenant _____
 Contact Name _____
 Address _____
 City _____ State _____ Zip Code _____
 Phone _____ Fax _____

Property Owner's Name _____
 Address _____
 City _____ State _____ Zip Code _____
 Home Phone _____ Work Phone _____
 Applicant's Name & Mailing Address, (if other than stated herein):

 Phone _____ Fax _____
 Contractor Company _____
 Contact Person _____
 Address _____
 City _____ State _____ Zip Code _____
 License No. _____
 Phone _____ Fax _____
 Engineer or Architect Company _____
 Contact Person _____
 Address _____
 City _____ State _____ Zip Code _____
 Phone _____ Fax _____

BUILDING DESCRIPTION - COMMERCIAL

Building Characteristics	Utilities
Height: _____ No. of stories: _____ Gross area, sq. ft. per floor: _____ Use group: _____ Construction type: <input type="checkbox"/> Reinforced Concrete <input type="checkbox"/> Structural Steel <input type="checkbox"/> Masonry <input type="checkbox"/> Wood Frame <input type="checkbox"/> State Certified Modular	Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private Sewage Disposal: <input type="checkbox"/> Public <input type="checkbox"/> Private Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: N/A <input type="checkbox"/> <input type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Other Suppression <input type="checkbox"/> # of Heads

BUILDING DESCRIPTION - RESIDENTIAL

Building Characteristics	Utilities
SF Dwelling <input type="checkbox"/> SF Townhouse <input type="checkbox"/> Depth _____ Width _____ 1 st floor: _____ 2 nd floor: _____ Basement: _____ Finished Basement <input type="checkbox"/> Unfinished Basement <input type="checkbox"/> Crawl space <input type="checkbox"/> Slab on Grade <input type="checkbox"/> No. of Bedrooms _____ Multi-family dwellings: No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____ Other Structure: _____ Dimensions: _____ Footings: _____ Roof: _____ <input type="checkbox"/> State Certified Modular <input type="checkbox"/> Manufactured Home	Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private Sewage Disposal: <input type="checkbox"/> Public <input type="checkbox"/> Private Electric Yes <input type="checkbox"/> No <input type="checkbox"/> Gas Yes <input type="checkbox"/> No <input type="checkbox"/> Heating System: Electric <input type="checkbox"/> Oil <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas <input type="checkbox"/> Sprinkler system: N/A <input type="checkbox"/> <input type="checkbox"/> NFPA #13D <input type="checkbox"/> NFPA #13R <input type="checkbox"/> Other:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature _____
 Title/Company _____

Print Name _____
 Date _____

Checks payable to: **DIRECTOR OF FINANCE OF HOWARD COUNTY**
 PLEASE WRITE NEATLY AND LEGIBLY.
 - FOR OFFICE USE ONLY -

AGENCY	DATE	SIGNATURE APPROVAL	DPZ SETBACK INFORMATION	PROPERTY ID #
Land Development, DPZ			Front: _____	Filing fee \$ _____
State Highways			Rear: _____	Permit fee \$ _____
Building Officials			Side: _____	Excise tax \$ _____
Dev. Engineering, DPZ			Side St.: _____	Add'l per fee \$ _____
Health <u>10/13/2009</u>		<u>R. Buckner</u>	All minimum setbacks met?	TOTAL FEES \$ _____
Fire Protection			YES <input type="checkbox"/> NO <input type="checkbox"/>	Sub-total paid \$ _____
Is Sediment Control approval required prior to issuance?			Is Entrance Permit Required?	Balance due \$ _____
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			YES <input type="checkbox"/> NO <input type="checkbox"/>	Check # _____
			Historic District?	Validation # _____
			YES <input type="checkbox"/> NO <input type="checkbox"/>	
			Lot Coverage for New Town Zone _____	
			SDP/Red-line approval date _____	Accepted by _____

328

Copy Signed Per Cont

MILL

Macadam Paving
21 1/2' Wide

N 09° 58' 06" E

L: 189.47'

S 06° 07' 09" W

L: 88.41'

L: 467.18'

LAND DEDICATED TO HOWARD COUNTY
FOR PURPOSE OF PUBLIC ROAD
TOTAL AREA = 0.5614 AC ±

Existing Well

Rail Fence

Wire Fence

Fence Cor. 32.80' S.W.
of Prop. Line

3/8" I. Pin Fnd.
(37.44' S.E. of Prop. Cor.,
0.51' S.W. of Prop. Line)

N 75° 12' 38" W

Fence Post, 18.56'
S.W. of Prop. Line

Existing & Road

Wood Post & Wire Fence

43.82'

Fence Post 9.68' S.W.
of Prop. Line

Fence Post 128'
S.W. of Prop. Line

3"x4" Brown Quartz Stone F
(Correct for Corner)

Fence Cor. 0.63' E. of Prop. Line

S 06° 53' 22" W 92.00'

EX.

1 STORY BRICK DWELLING
w/ GARAGE

PROPOSED DWELLING WOOD SHED

FRAME SHED

3 Bed room SPD
Approved as shown
No grade well prior to IC
10/13/10

Wood Post & Wire Fence

Wetlands

Old Wire Fence
3/4" S.W.

450

GRE
SECT

01

LOT 3
3,000 AC ±

45128 475

LOT 2

USDA Occupancy

Specialty Contractors press to
remove of fence to
reconnect to
4/13/10

Approved Septic System

10/13/10

10/13/10

Wetlands

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**HOWARD SOIL CONSERVATION DISTRICT
STANDARD EROSION AND SEDIMENT CONTROL PLAN
FOR MINOR EARTH DISTURBANCES
BETWEEN 5,000 SF AND 30,000 SF**

Project Name/Location: Dustin Property / Clarksville, MD ^{6541 Haviland} HSCD# SGP-10-06 ²¹⁰²⁹

Tax Map 34 Block 19 Parcel 56
Road Map Coordinates Page: 7933 Block: B18

Owners Name: Kenneth Dustin Phone: 240-508-3052
Owners Address: 6541 Haviland Mill Rd
Clarksville Md Zip: 21029

Contractors Name: Kenneth Dustin Phone: 240-508-3052
Contractors Address: Same
(if applicable) Zip: _____

Engineer/Surveyor: Wes Cook Phone: _____
(if applicable)

Total area of site: 8.9 ACS square feet.
Total area of disturbance: < 30,000 square feet.
Total volume of excavation or fill: ~300 cubic yards.

Distance of disturbed area from any wetland: 200 feet.
Distance of disturbed area from any intermittent or perennial stream 300 feet.
Distance of disturbed area from any 100 yr. floodplain N/A feet.

Limitations:

This standard erosion and sediment control plan may be used instead of a detailed plan for earth disturbances where all of the following conditions are met:

1. No more than 30,000 square feet of earth will be disturbed and no more than 1,000 cubic yards of cut or fill will occur.
2. No slope steeper than 3 horizontal to 1 vertical (3:1) will be disturbed or created.
3. Cuts and/or fills will not exceed 10 feet in depth or height.
4. No earth disturbance shall occur within the limits of any 100-year floodplain, or 100 feet of any stream or water body.
5. No earth disturbance shall occur within 25 feet of any wetland or within 100 feet of any wetland of Special State Concern.
6. The proposed work does not require a State Waterway or Wetland Permit.
7. The owner, builder, or developer is not the same owner, builder, or developer of any contiguous lots undergoing development.
8. The project is not within a developing subdivision.

Conditions:

- A. Nothing herein relieves the applicant from complying with any and all federal, State, and local requirements (e.g., Stormwater Management, Critical Area, Forest Conservation, Grading, etc.)
- B. The applicant shall notify the Howard County Construction Inspection Division at 410-313-1855 at least 48 hours prior to starting site work.
- C. The Howard County Construction Inspection Division shall have access to the property for inspection purposes.
- D. If adequate erosion and sediment control measures are not provided in accordance with this plan, the Howard County Construction Inspection Division reserves the right to require corrective action.
- E. This erosion and sediment control plan remains valid for two (2) years from the approval date.

Project Information:

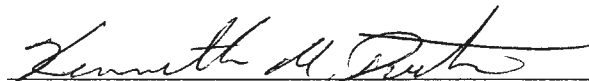
The following information must be provided and attached to the standard plan:

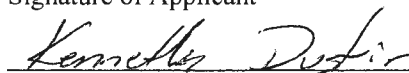
1. Plat showing the dimensions of property lines and road frontage. (e.g. see www.howardcountymd.gov/DPZ/DPZDocs/ParticularProp.pdf)
2. Location and dimensions of all existing and proposed structures (e.g., house, garage, driveway, well, septic system, etc.)
3. If present, the location of, water bodies, watercourse, wetlands, streams, and their associated floodplain.
4. Limits of disturbance.
5. Direction of surface water drainage and points of discharge.
6. Erosion and sediment control provisions to minimize on-site erosion and prevent off-site sedimentation.


Requirements :

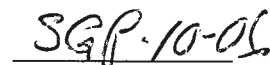
- A. Erosion and sediment control measures shall be installed prior to any earth disturbance except that necessary for installation of the controls.
- B. All erosion and sediment control practices shall be installed and maintained according to the criteria contained in the most current version of the Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- C. All clearing and grading shall be completed in the following sequence:
 1. Limit initial clearing and grubbing for the installation of the construction entrance, perimeter controls, and any remaining controls.
 2. Install stabilized construction entrance, perimeter silt fence, and any other sediment controls.
 3. Clear, grub, and grade the remainder of the site as specified by the limits of disturbance shown on the attached plat.
 4. Provide temporary stabilization of any area that will not be actively graded within fourteen (14) days.
 5. Construct any structures and utilities.
 6. Provide final grading and stabilization according to the seeding or sodding specifications (minimum stabilization by seeding and mulching).
 7. After the site has been stabilized with adequate vegetation, and with the permission of the sediment control inspector, remove sediment control practices and stabilize remaining disturbed areas.
- D. All erosion and sediment control devices require continual maintenance. Any controls that are damaged or disturbed shall be restored or repaired before the end of each day.
- E. Development activities shall not impair any drainage, create an erosion hazard, or create a source of sediment to any adjacent watercourse, wetland, or property.
- F. Any pumping of water must be filtered and done according to the criteria contained in the most current version of the Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- G. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within seven (7) calendar days on the surface areas of all sediment controls, stockpiles, and perimeter slopes; and fourteen (14) days for all other disturbed areas on the site not being actively graded.

I hereby certify that this project meets the specified Limitations and that all work will be done according to the above Requirements and Conditions and with the Project Information attached to this Standard Plan.

 9-15-09
Signature of Applicant Date


Printed Name of Applicant


Soil Conservation District Representative Approval


Plan Number

SEQUENCE OF CONSTRUCTION

1. Obtain a Grading Permit.
2. Install sediment controls as shown on plan in accordance with details.
3. Perform necessary grading and stabilize the site with topsoil and seeding notes. All downspouts, swales, ditches and other concentrated flow areas shall receive erosion control matting.
4. After the site is permanently stabilized and permission is granted from the Howard County Sediment Control Inspector, remove sediment controls and stabilize any remaining disturbed areas.

HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

1. Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
2. Acceptable -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding -- For the periods March 1 -- April 30, and August 1 -- October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 -- July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 -- February 28, protect site by: Option 1 -- Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2 -- Use sod. Option 3 -- Seed with 60 lbs/acre Kentucky 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

Maintenance -- Inspect all seeding areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seedbed preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

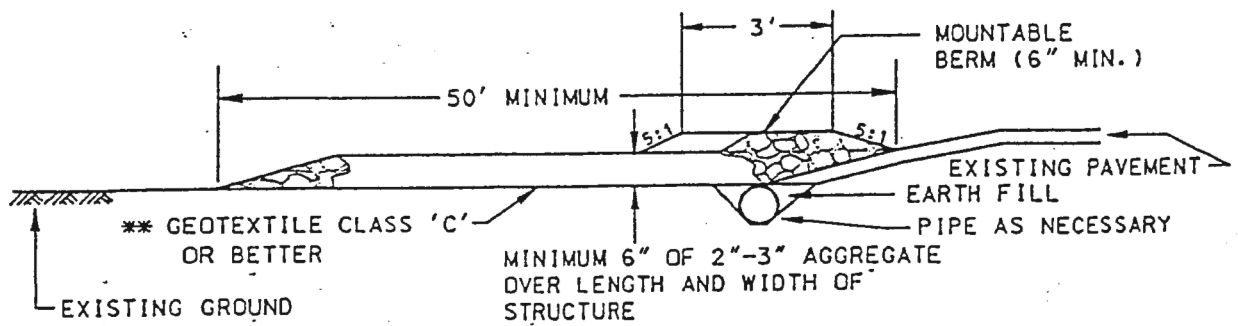
Soil Amendments: -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: -- For the periods March 1 -- April 30 and from August 15 -- October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 -- August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16 -- February 28, protect site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

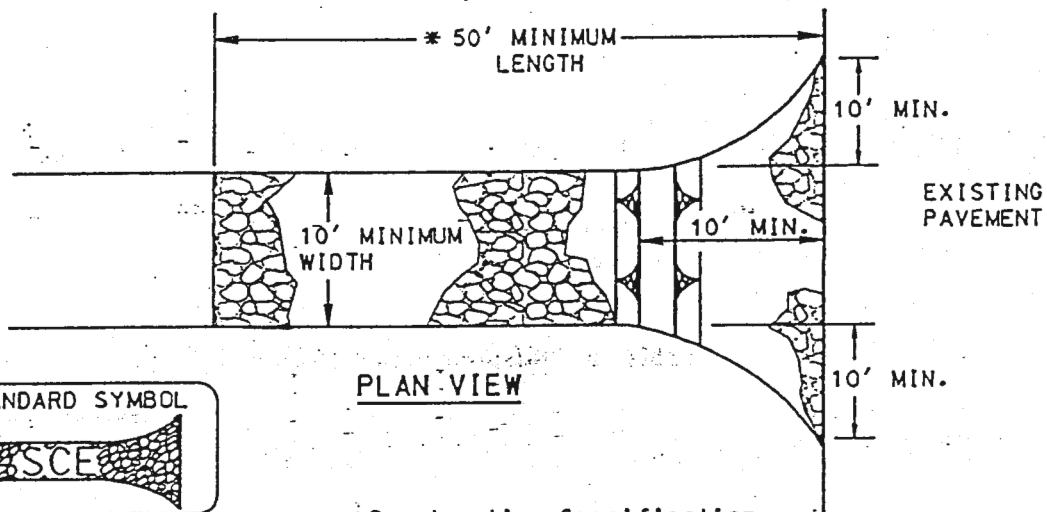
Mulching: -- Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

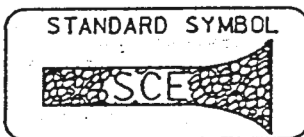
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



PROFILE



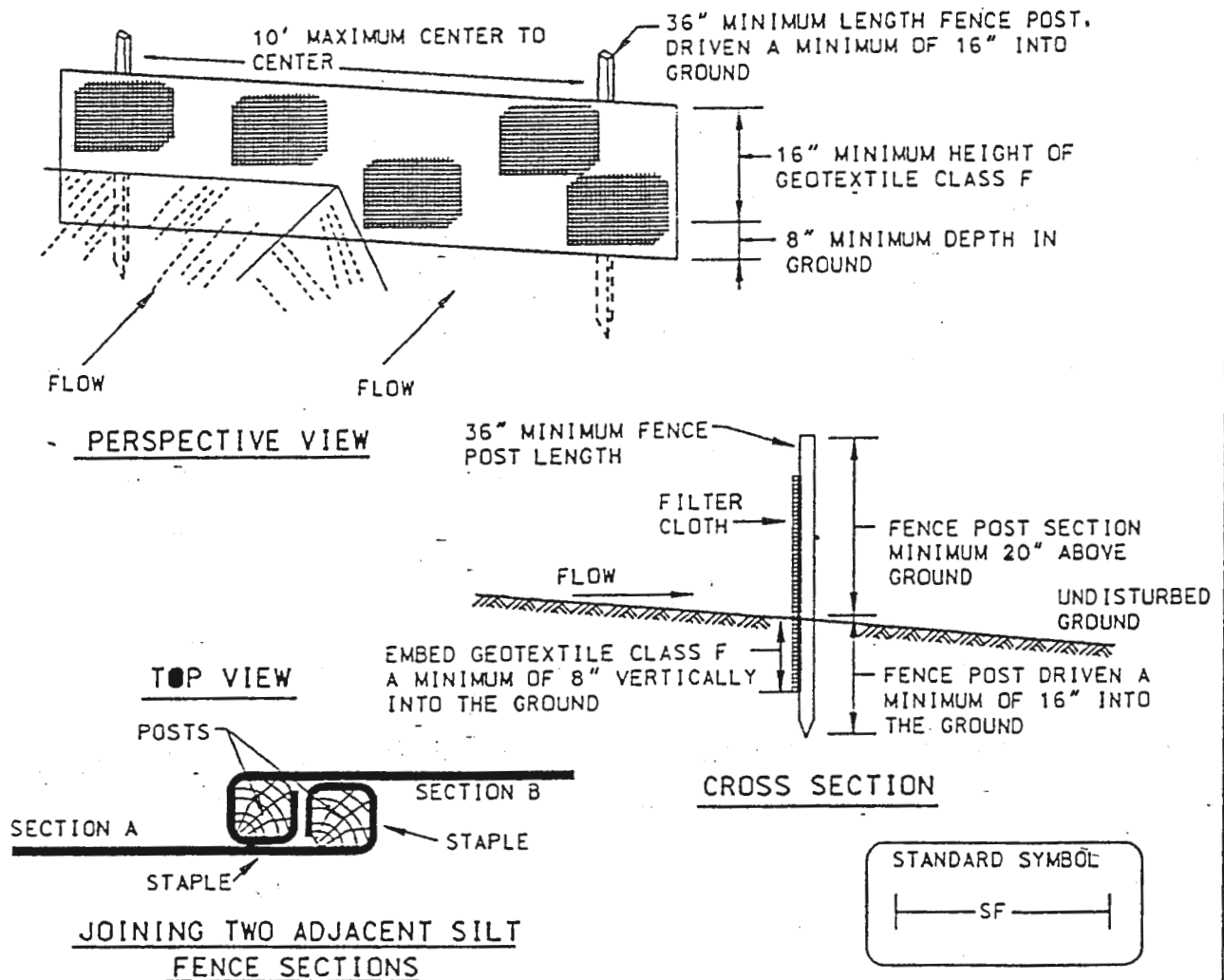
PLAN VIEW



Construction Specification

1. Length - minimum of 50' (*30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1½" x 1½" square (minimum) cut, or 1¾" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft ² / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

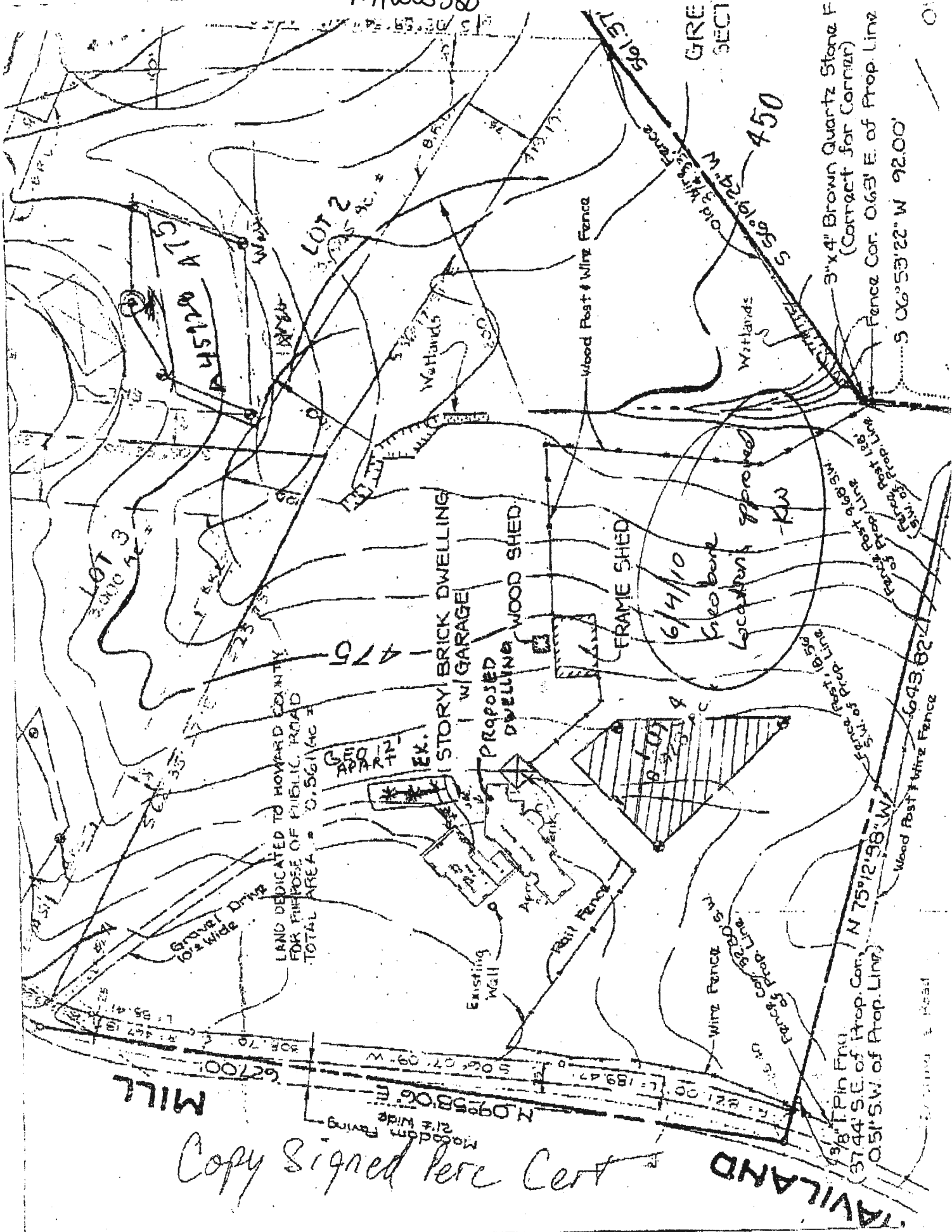
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE

Silt Fence Design Criteria

<u>Slope Steepness</u>	(Maximum) <u>Slope Length</u>	(Maximum) <u>Silt Fence Length</u>
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A), maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.



MILL

Copy Signed Per Cert

AVILAND

LAND DEDICATED TO HOWARD COUNTY FOR PURPOSE OF PUBLIC ROAD TOTAL AREA = 0.561 AC ±

3"x4" Brown Quartz Stone F (Correct for Corridor) Fence Cor. 0.63' E. of Prop. Line S 06° 53' 22" W 92.00'

3/8" Pin Eng 3744' S.E. of Prop. Cor. N 75° 12' 38" W 0.51' S.W. of Prop. Line

M1000580

JUNE 15 2010

CONTACT #
MONTE BROWN
jmbrown63@yahoo.com

BROWN'S REFRIGERATION
& HEATING INC.
301 474-4949
8608 BALT. BLVD
COLLEGE PK, MD 20740

JOB: DUSTIN
6541 HAVILAND MILL RD
CLARKSVILLE MD
21029

MD STATE LIC
#2494

INSTALL 2 EACH GEOTHERMAL HVAC UNITS CLOSED GROUND LOOP

GEO #2 UNIT CAPACITY 26,600 BTUH SPLIT SYSTEM (2 TONS)
CARRIER GT-PX 50YDS026 EER 24.5 COP 4.1

GEO #1 UNIT CAPACITY 71,600 BTUH PACKAGE UNIT (6 TONS)
CARRIER GT-PX 50YDV072 EER 21.4 COP 3.9
WITH, HOT WATER GENERATOR FOR DOMESTIC WATER HEATING

WELL DRILLING DONE BY OTHERS

CONNECTION OF GROUND LOOP PIPING TO GEO UNITS DONE BY OTHERS

* GEO #2 UNIT HAS VARIABLE SPEED FAN COIL LOCATED IN 2ND FLOOR ATTIC.

WELL DRILLING DONE BY: Allied Well Drillers
MILLERSVILLE MD 410 789 2711

