

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 512711

A 58028 X

DISTRICT _____

DATE 9-17-1999

DATE SYSTEM APPROVED 9/23/99

INSPECTOR B.B.

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

~~XXXX-XXXX~~ 410-313-2640

325458
INDEXED

SK Backhoe & Septic Service

IS PERMITTED TO INSTALL X ALTER _____

ADDRESS 1220 FKS Highway, Keymar, Maryland 21757 PHONE 301-898-0955

SUBDIVISION Benson Branch Overlook LOT 4 ROAD 3600 Burgess Estates Way

PROPERTY OWNER Hamilton Reed Paul Ridge

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place the distribution box 20 feet off the 236.80' lot line and 140 feet off the 133.34' lot line as seen from Burgess Estates Way. Run trenches along contour towards the 201.77' lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 7/12/99 DS

PLANS APPROVED BY Donna K. Soe

DATE 6-29-1999

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

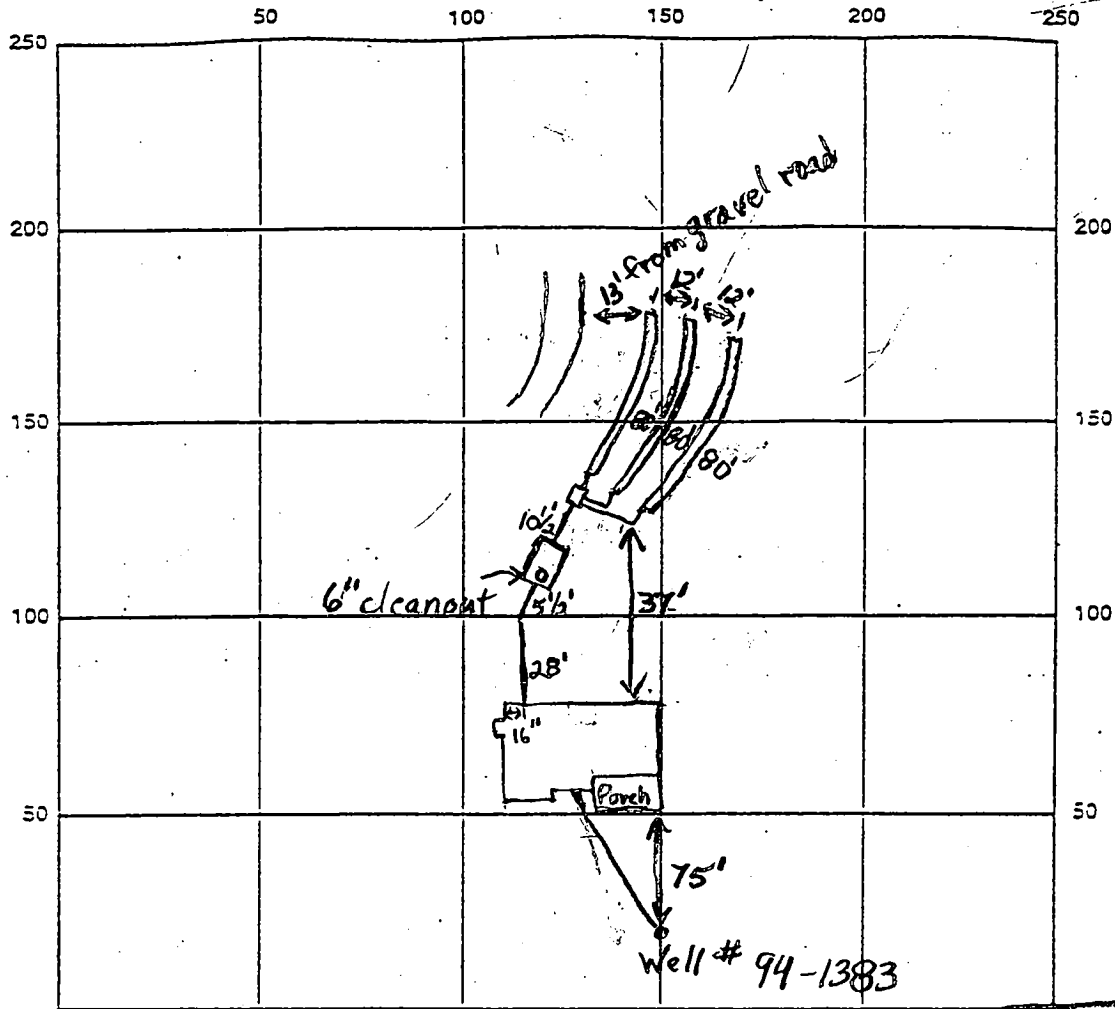
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

BLOG. PERMITS
AND REVISIONS 8/16/01
B00132018
deck w/ steps
& finished basement

A 58028 X



INDICATE NORTH NAME ADJOINING ROADWAY AS BASE LINE

Burgess Estates Drive

SEPTIC TANK LEVEL 1-1250 gal. tank CLEANOUTS 1-6" cleanout
 DISTRIBUTION BOX LEVEL O.K.
 DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.
 EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 80x3 FT. 240ft. total
 NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.
 DRYWALL INSIDE DIAMETER 1 FT. EFFECTIVE DEPTH BELOW INLET 1 FT.
 ABSORBENT AREA 1 SQ. FT.

REMARKS: 9/23/99 House connection made. O.K. to cover system. (BB)

DATE SYSTEM APPROVED 9/23/99 INSPECTOR B. Baker

3/11/97 thru 4/1/97

APPLICATION

PERCOLATION TESTING

A 58028

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

3/12/97
Preview OK
ALM

DISTRICT _____

DATE 3/17/97

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER ~~3500 Shuttle~~ C/O ~~LOD~~ Hamilton REED

ADDRESS 4805 Hickory Ridge Dr Suite 215 Col. MD 21044
PHONE 740-2100-2

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Burgess Benson Ranch Overlook LOT NO. 4

ROAD AND DESCRIPTION Tridelphia
(3600 Burgess Estates Way)

TAX MAP 22 PARCEL # 10

SIZE OF LOT 1 acre TYPE BLDG. Single - 4 Bed
(SINGLE FAMILY DWELLING OR COMMERCIAL)

COPIES RETURNED SIGNED
DATE RETURNED 6-29-99
Serial # B70118642

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.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE 2634
2632 2633

no distinct
clay
layer
bright
red to
pink
SiSalm
15-20%
very
decayed
Shale

12.0

2635

bright
orange
yellow
SiClm
lgt red
SiIm
micaceous
10%
shale

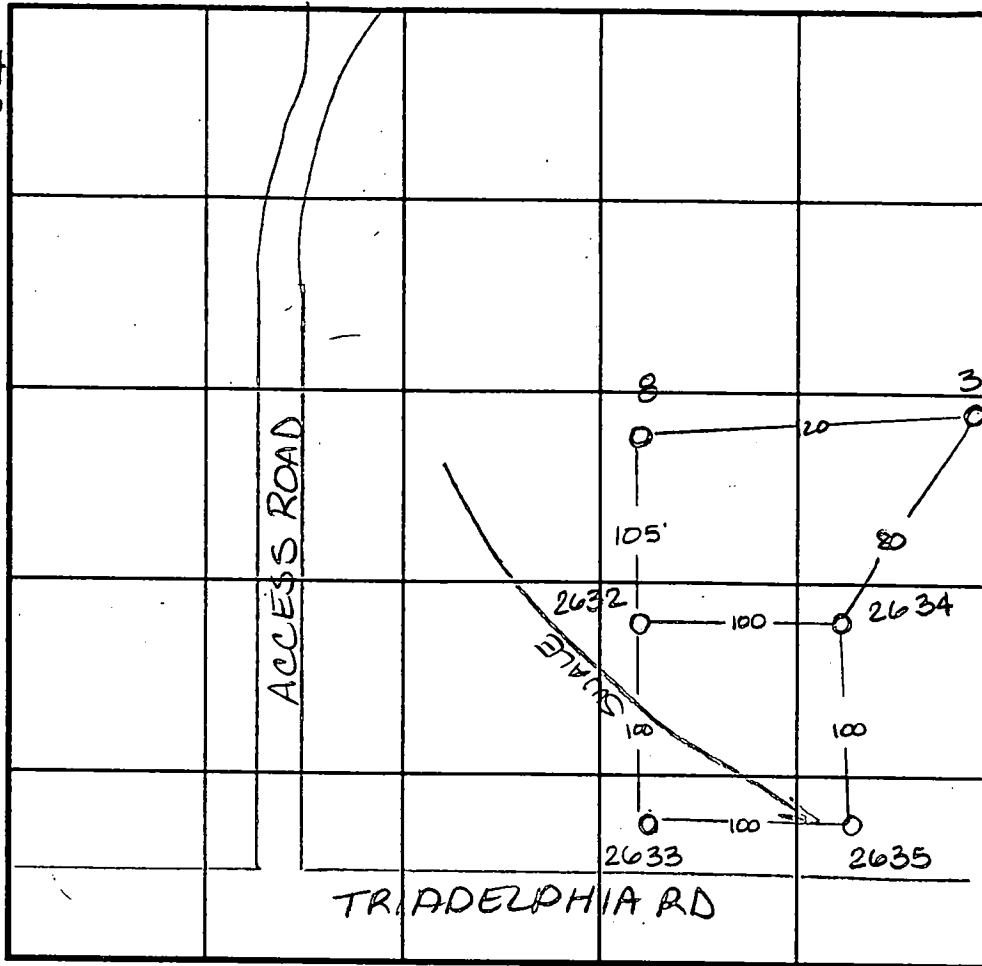
3.5

10.0

8

bright
red
SiClm
yellow
and
red
mottled
SiIm
not H₂O
related

12.0



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE 3

dark
red
SiClm
micaceous
lgt red
w orange
SiSalm
10%
R_x
micaceous

3.0

12.0

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4-15-97	2632	4.0 / V12.0	10:26 ³⁰	10:28 ³⁰	10:28 ³⁰	10:32 ³⁰	4min
		8.0 / V12.0	10:28 ³⁰	10:29 ³⁰	10:29 ³⁰	11:01 ³⁰	1 1/2 min
	2633	3.5 / V11.5	10:29 ³⁰	10:31 ³⁰	10:31 ³⁰	10:34 ³⁰	3min
	2634	4.0 / V13.0	10:34 ³⁰	10:37 ³⁰	10:37 ³⁰	10:41 ³⁰	4 1/2 min
	2635	4.0 / V10.0	10:32 ³⁰	10:34 ³⁰	10:34 ³⁰	10:39 ³⁰	5 1/2 min
	8	Visual	to 12.0 - see profile -				OK
	3	4.0 / V12.0	10:51 ³⁰	10:54 ³⁰	10:54 ³⁰	11:00 ³⁰	5 1/2 min
		8.0 / V12.0	10:51 ³⁰	10:52 ³⁰	10:52 ³⁰	10:54 ³⁰	1 1/2 min

REMARKS Do not use 2633 & 35 due to location of swale

TYPE OF SOIL

TESTED BY Amy McMillen

ALSO PRESENT Milbe Johnson

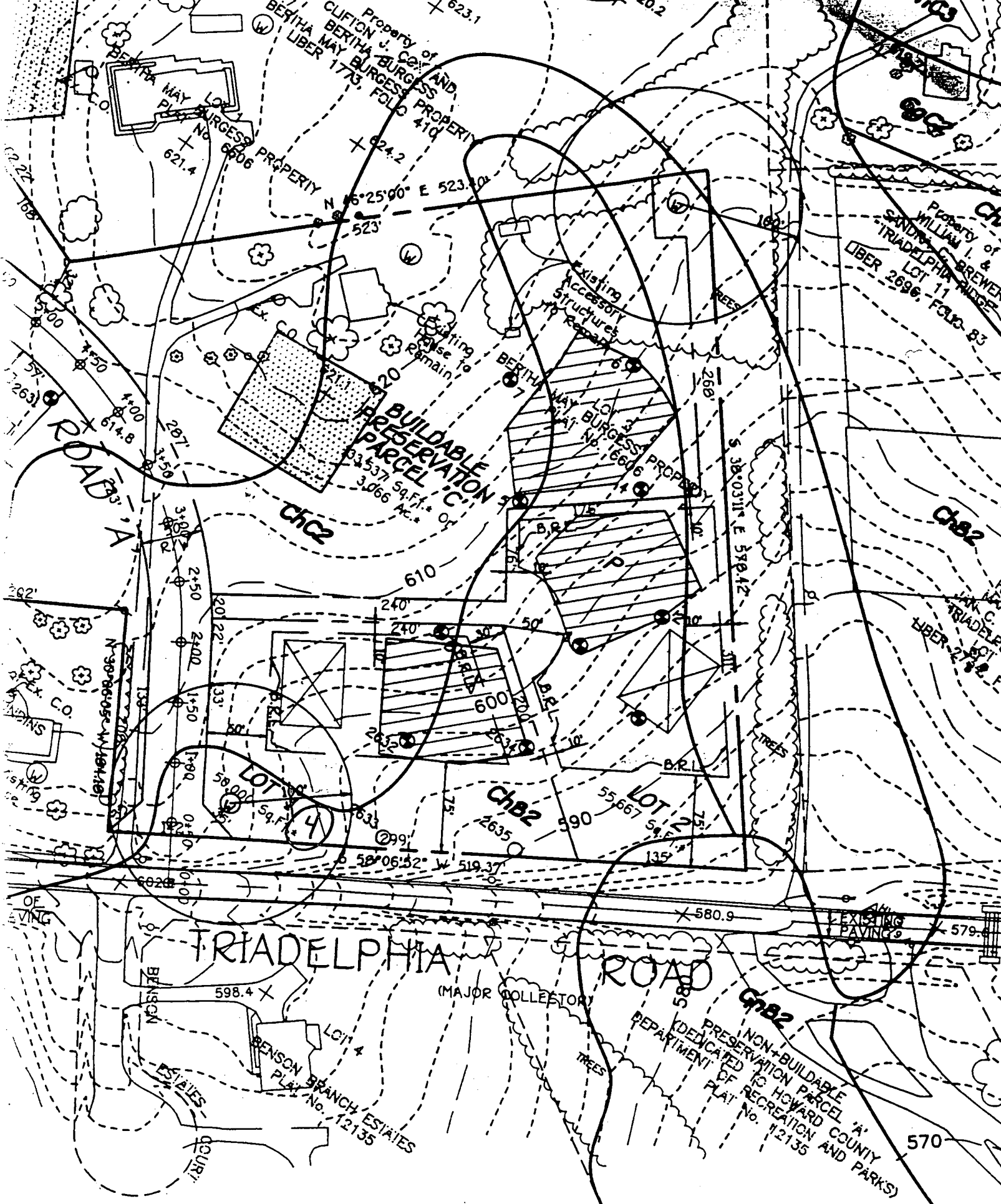
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

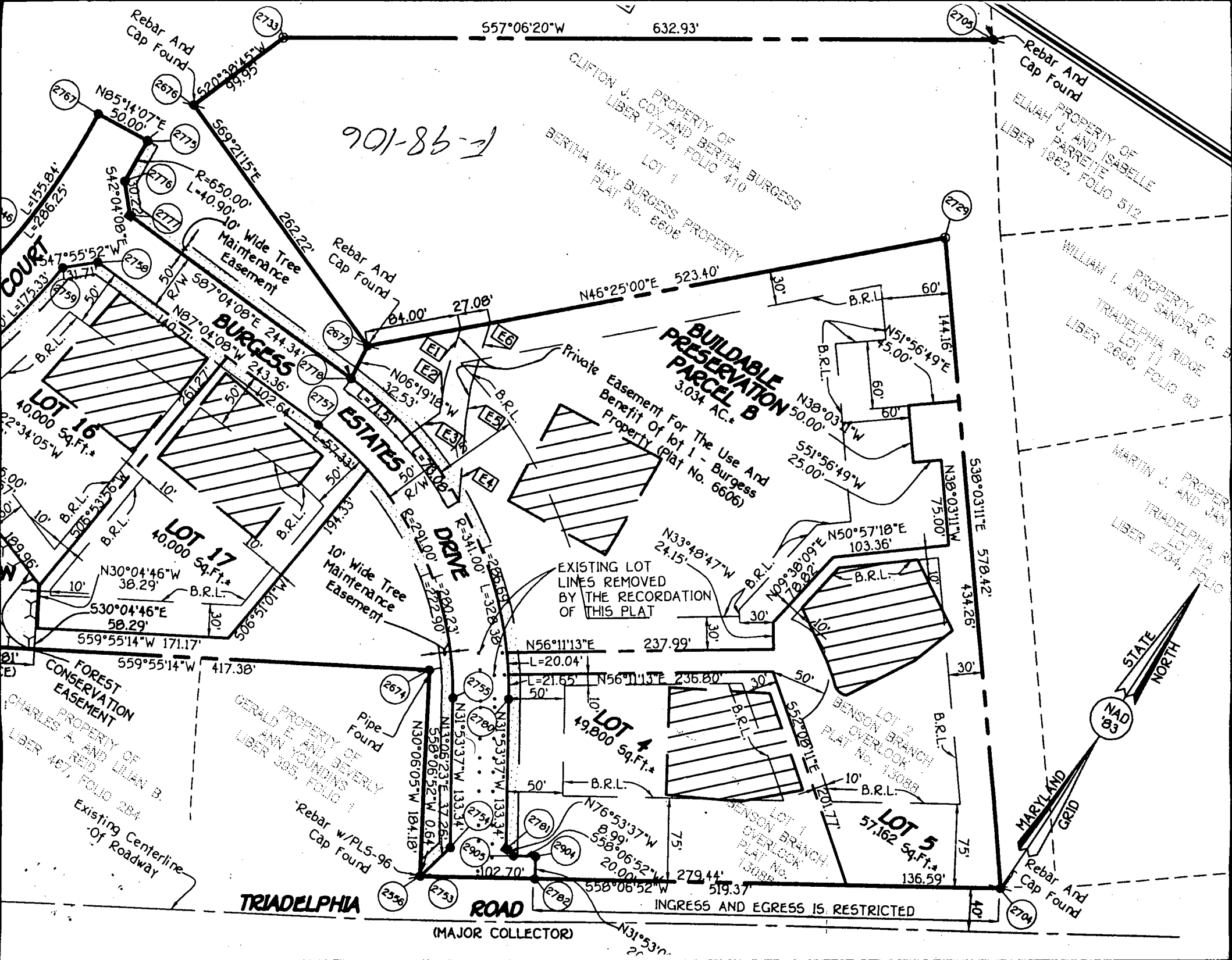


BUILDABLE PRESERVATION PARCEL C
 3,537 Sq. Ft. ±
 3,066 AC ±

TRIADELPHIA ROAD
 (MAJOR COLLECTOR)

NON-BUILDABLE PRESERVATION PARCEL 'A'
 DEDICATED TO HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS
 PLAY No. 12135

SIGNED
 PERC CERT



557°06'20"W 632.93'

901-86-1

PROPERTY OF
CLIFTON J. COX AND BERNA BURGESS
LIBER 1773, FOLD 410
LOT 1
BERNA MAY BURGESS PROPERTY
PLAT No. 6608

PROPERTY OF
ELIAH J. AND ISABELLE
PARRETE
LIBER 1862, FOLD 512

PROPERTY OF
WILLIAM I. AND SANDRA C.
TRIADELPHIA RIDGE
LOT 1
LIBER 2806, FOLD 80

PROPERTY OF
MARTIN J. AND JAY
TRIADELPHIA RIDGE
LOT 1A
LIBER 2734, FOLD

BUILDABLE PRESERVATION PARCEL B
3.03+ AC.*

Private Easement For The Use And Benefit Of lot 1 - Burgess Property (Plat No. 6606)

EXISTING LOT LINES REMOVED BY THE RECORDATION OF THIS PLAT

LOT 2
BENSON BRANCH OVERLOOK
PLAT No. 1088

LOT 4
BENSON BRANCH OVERLOOK
PLAT No. 1088

LOT 5
BENSON BRANCH OVERLOOK
PLAT No. 1088

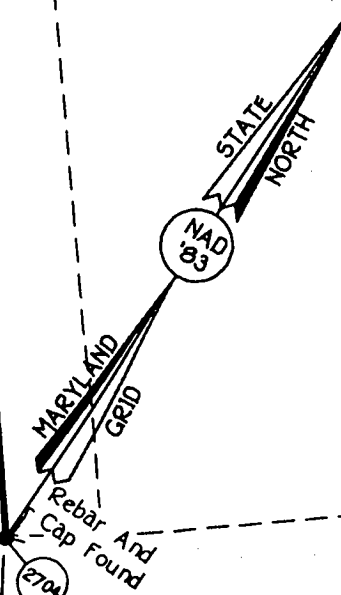
Rebar And Cap Found
N85°14'07"E 50.00'
L=155.84'
L=286.25'
S42°04'08"E
L=172.33'
S47°55'52"W
L=140.71'
N87°04'08"E 24.34'
N06°19'18"W 32.53'
N30°04'46"W 38.29'
N30°06'05"W 184.18'

LOT 16
40,000 Sq.Ft.*
LOT 17
40,000 Sq.Ft.*
LOT 1
49,800 Sq.Ft.*
LOT 5
57,162 Sq.Ft.*
N51°56'49"E 15.00'
N38°03'11"W 50.00'
N38°03'11"W 75.00'
N50°57'18"E 103.36'
N09°38'09"E 78.82'
N56°11'13"E 237.99'
N56°11'13"E 236.80'
N76°53'37"W 8.99'
S58°06'52"W 20.00'
S58°06'52"W 279.44'
S58°06'52"W 519.37'
N31°53'37"W 133.34'
N31°53'37"W 133.34'
N31°53'37"W 133.34'
N31°53'37"W 133.34'
N31°53'37"W 133.34'

FOREST CONSERVATION EASEMENT
PROPERTY OF
CHARLES A. AND LILIAN B.
LIBER 457, FOLD 284
Existing Centerline Of Roadway
GERALD E. AND BEVERLY
HARRINGTON
LIBER 385, FOLD 1
Rebar w/PLS-96
Cap Found
N30°06'05"W 184.18'

TRIADELPHIA ROAD
(MAJOR COLLECTOR)

INGRESS AND EGRESS IS RESTRICTED



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 5-26-99
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 5-28-99
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 6/8/99
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

[Signature] 6/8/99
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (03-1995).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	1.15 ACRES
AREA DISTURBED	0.24 ACRES
AREA TO BE GRADED OR PAVED	0.24 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.10 ACRES
TOTAL CUT	200 CU.YDS.
TOTAL FILL	200 CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER SEDIMENT CONTROL AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS HAD.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Install sediment controls as shown on plan (day).
- Perform necessary grading and stabilize the site (2 days).
- Construct dwelling on site (90 days).
- After the site is stabilized and permission is granted from the sediment control inspector, remove sediment controls and stabilize any remaining disturbed areas.

TEMPORARY SEEDING NOTES

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

SEEDING PREPARATION

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

SOIL AMENDMENTS

Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1,000 Sq. Ft.)

SEEDING

For the periods March 1 through April 30, and August 15 through November 15, seed with 1-1/2 bushel per annual rye (3.2 lbs./1,000 Sq. Ft.) for the period May 1 thru August 14. Seed with 3 lbs./acre of weeping lovegrass (0.7 lbs./1,000 Sq. Ft.). For the period November 16 thru February 28, protect site by applying 2 tons per 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 per acre (70 to 90 lbs./1,000 Sq. Ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (5 gal./1,000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 340 gallons per acre (6 gal./1,000 Sq. Ft.) for anchoring.

Refer to the 1988 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

PERMANENT SEEDING NOTES

All disturbed areas shall be stabilized as follows:

SEEDING PREPARATION

Loosen upper three inches of soil by raking, dicing or other acceptable means before seeding.

SOIL AMENDMENTS

Apply two tons per acre Dolomitic Lime Stone (92 lbs./1,000 Sq. Ft.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1,000 Sq. Ft.) before seeding harrow or dicing. Into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 urea-form fertilizer (9 lbs./1,000 Sq. Ft.) and 500 lbs. per acre (11.5 lbs./1,000 Sq. Ft.) of 10-20-20 fertilizer.

SEEDING

For the periods March 1 through April 30, and August 1 through October 15, seed with 100 lbs. per acre (2.3 lbs./1,000 Sq. Ft.) of Kentucky 31 Tall Fescue, for the period May 1 through July 31, seed with 60 lbs./acre (1.4 lbs./1,000 Sq. Ft.) Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1,000 Sq. Ft.) of weeping lovegrass. During the period of October 16 through 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 500; Option (3) - seed with 100 lbs./acre Kentucky 31 Tall Fescue and mulch with two tons/acre well anchored straw. All slopes should be hydroseeded.

MULCHING

Apply 1-1/2 to 2 tons per acre (60 to 90 lbs./1,000 Sq. Ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gal./1,000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher use 340 gallons per acre (6 gal./1,000 Sq. Ft.) for anchoring.

MAINTENANCE

Inspect all seeded areas and make needed repairs, replacements and reseedings.

* For public ponds substitute Chemung Crownwetch at 15 lbs./acre and Kentucky 31 Tall Fescue at 40 lbs./acre as the seeding requirement. Optimum seeding date for this mixture is March 1 to April 30.

TOPSOIL SPECIFICATIONS

Soil to be used as topsoil must meet the following: Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoil and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots trash, or other materials larger than 1-1/2" in diameter.

Topsoil must be free of plants or plant parts such as *Barringtonia*, *Crataegus*, *Johnson grass*, *Nutsedge*, *Poison Ivy*, *Thistle*, or others as specified.

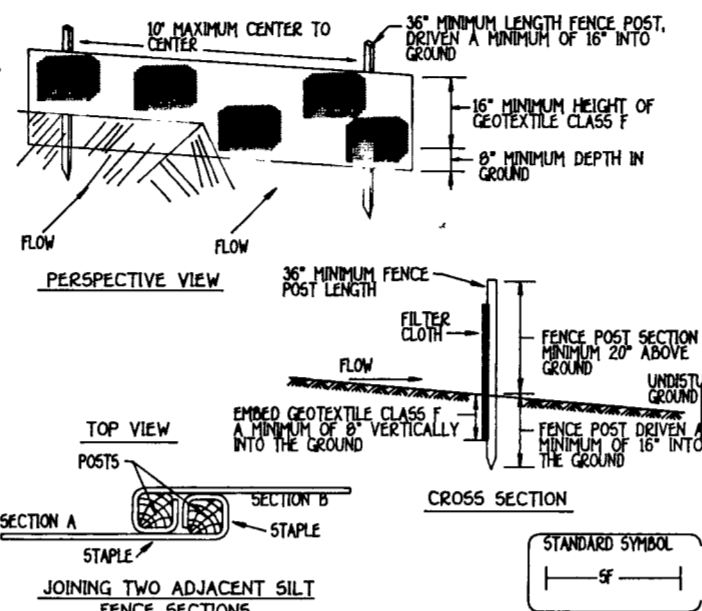
Where the topsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4 lbs./acre (200-400 pounds/1,000 Sq. Ft.) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

For sites having disturbed areas under 5 acres: Place topsoil (if required) and apply soil amendments as specified in 20.0 vegetative stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

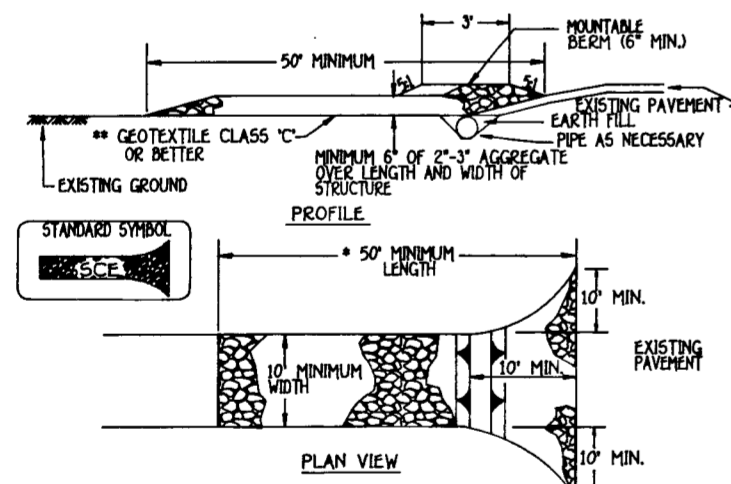
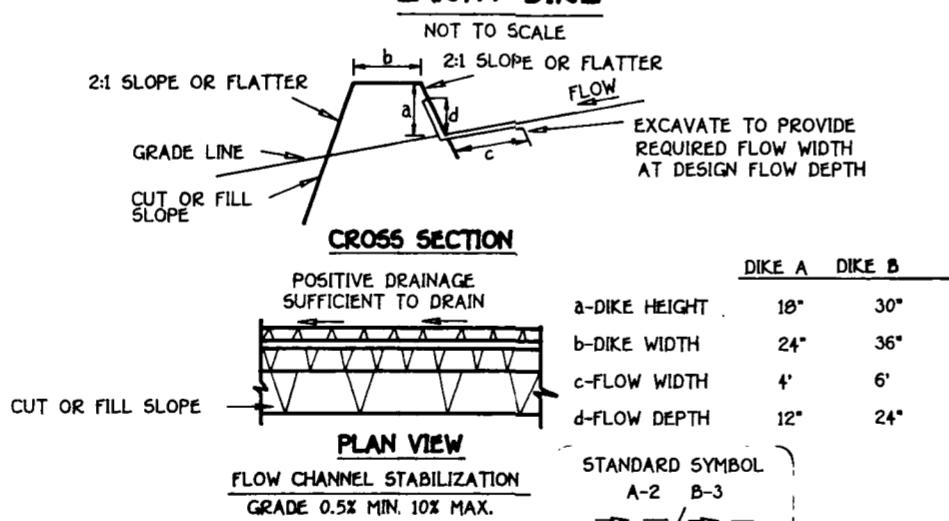
ALTERNATIVE FOR PERMANENT SEEDING - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

Composted sludge material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

- Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under Comar 26.04.06.
 - Composted sludge shall contain at least 1 percent Nitrogen, 1.5 percent Phosphorus, and 0.2 percent Potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, The appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 Sq. Ft.
- Composted sludge shall be amended with a Potassium Fertilizer applied at the rate of 4 lbs./1,000 Sq. Ft. and 1/3 the normal lime application rate.



EARTH DIKE

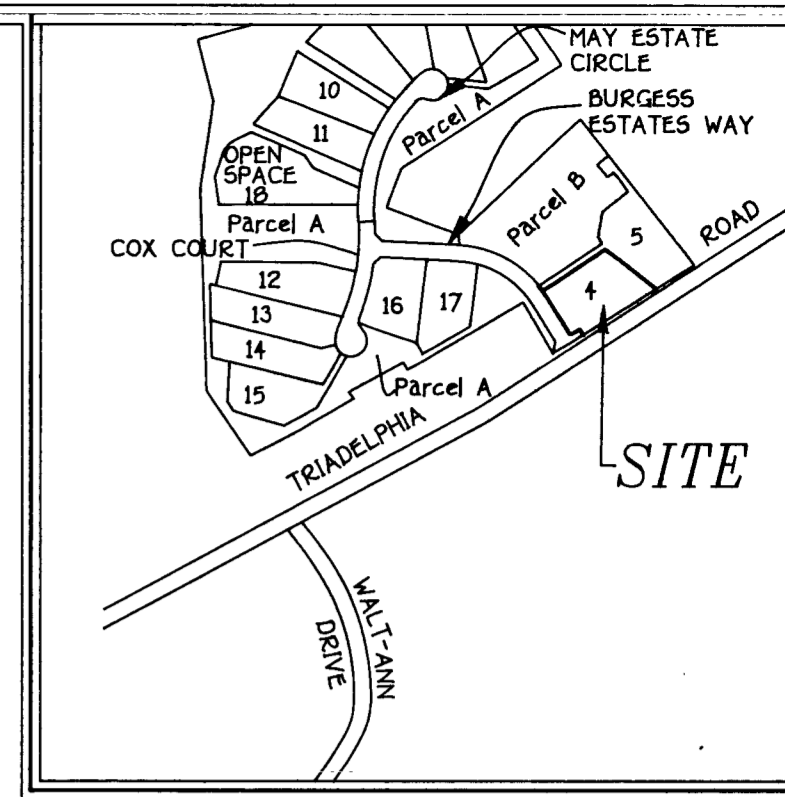


- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- 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.
- 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 the pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- 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.

STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE

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

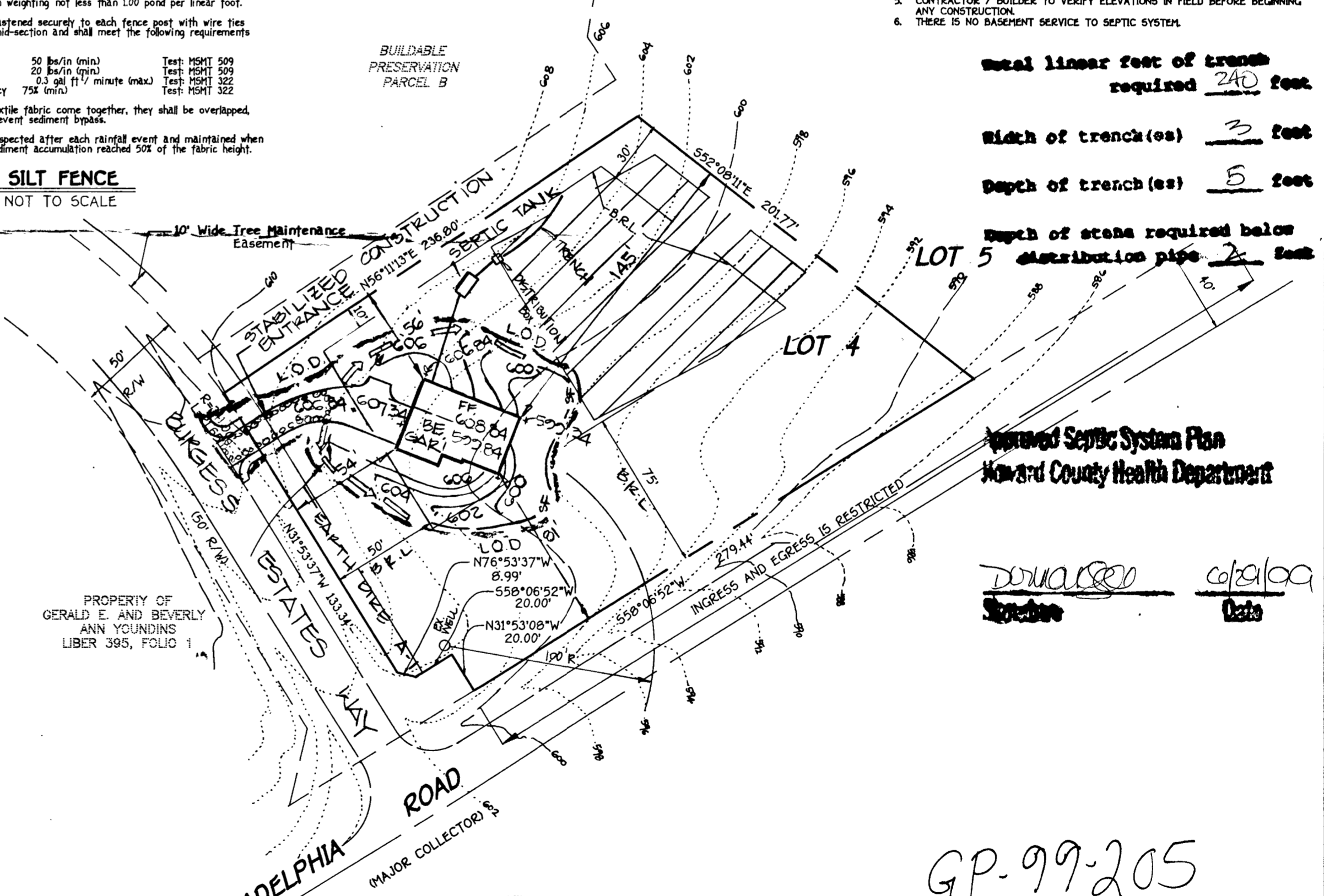
F.C.C. 61182



GENERAL NOTES

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
- PROPOSED 1500 GALLON SEPTIC TANK
- A. FIRST FLOOR ELEVATION: 604.70
 B. BASEMENT ELEVATION: 600.70
 C. INVERT OF SEPTIC SYSTEM AT HOUSE: 604.34
 D. INVERT IN AT SEPTIC TANK: 603.50
 E. INVERT OUT AT SEPTIC TANK: 603.70
 F. PROPOSED GRADE OVER SEPTIC TANK: 605.70
 G. INVERT AT DISTRIBUTION BOX: 605.00
 H. EXISTING GROUND OVER DISTRIBUTION BOX: 606.00
 I. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
 J. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
 K. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.

total linear feet of trench required 240 feet
 width of trench(es) 3 feet
 depth of trench(es) 5 feet
 depth of stone required below distribution pipe 2 feet



Howard Septic System Plan
 Howard County Health Department

[Signature] 6/29/99
 Date

GP-99-205
 PLAN TO ACCOMPANY APPLICATION
 FOR BUILDING PERMIT
 BENSON BRANCH OVERLOOK
 LOT 4

TAX MAP 22
 THIRD ELECTION DISTRICT
 SCALE: 1" = 50'

PARCEL 10
 HOWARD COUNTY, MARYLAND
 DATE: MAY 25, 1999

REVISED 6.8.99 HOUSE LOCATION

C1 05131 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER A 58028

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLUMNS 3-6 ON ALL CARDS)

ST/COUSE ONLY DATE RECEIVED 2/19/98

DATE WELL COMPLETED 02 04 98

Depth of Well 22 305 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1383

OWNER Hamilton Reed last name first name STREET OR RFD Philadelphia Road TOWN Glenelg SUBDIVISION Benson Branch Okrob SECTION LOT (4)

WELL LOG Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandstone, Mica, etc.

GROUTING RECORD Form: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), NO. OF BAGS (15), NO. OF POUNDS (2500), GALLONS OF WATER (90), DEPTH OF GROUT SEAL (0 to 305).

CASING RECORD Form: MAIN CASING TYPE (PL), Nominal diameter (6), Total depth of main casing (95).

OTHER CASING (if used) Form: diameter, depth (feet).

SCREEN RECORD Form: screen type or open hole (HO), insert appropriate code below.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) CIRCLE APPROPRIATE LETTER (A, E, P)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 MSD 116 DRILLERS SIGNATURE Kelly Maysor LIC. NO. MSD 116 Kelly E. Maysor

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

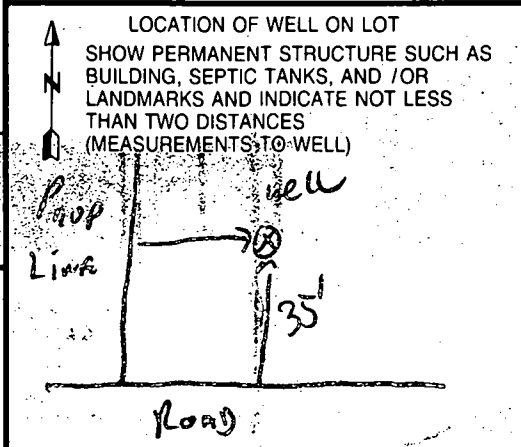
DEPTH (nearest ft.) Table with columns 1-21 and rows A-N. Includes handwritten values: 40, 93, 305.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST Form: HOURS PUMPED (3), PUMPING RATE (4), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (46), BEFORE PUMPING (17), WHEN PUMPING (22), TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED Form: DRILLER WILL INSTALL PUMP (NO), TYPE OF PUMP INSTALLED (S), CAPACITY: GALLONS PER MINUTE (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (+) above LAND SURFACE (2).



B 1 8753 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type.

STATE PERMIT NUMBER **HO-94-1383**
fill in this form completely

Date Received (APA) 011698

OWNER INFORMATION

HAMELTON E Reed
15 Last Name Owner First Name 34

10805 HICKORY RIDGE
36 Street or RFD 56

COLUMBIA MO 21049
57 Town 70 State 72 Zip 78

DRILLER INFORMATION CIRCLE: MSD/MSD/MWD

Ralph MAYNE 77 License No. 80 **176**

Driller's Name **Ralph Mayne (well drilling)**

Firm Name **9120 Brown Church Rd. Mt Airy**

Address **Ralph Mayne 1-12-98**

Signature Date

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **590**

USE FOR WATER (CIRCLE APPROPRIATE BOX)

D HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)

T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL **150** FEET

APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) **JETTED** **Jetted & DRIVEN**

AIR-ROTARY **AIR-PERCussion** **ROTARY (Hydraulic Rotary)**

CABLE **REverse-ROTary** **DRive-POINT**

other _____

REPLACEMENT OR DEEPEINED 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

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 DEEPEIN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) _____

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

APPROP. PERMIT NUMBER _____

FORCE **AM** WRITE INITIALS IN BOX PERMIT No. **HO-94-1383**

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

B 3 LOCATION OF WELL

HOWARD COUNTY

Benson BRANCH OVERCROOK 23 SUBDIVISION 42

SECTION _____ LOT **4**

FLENZELG 52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) **1** M **1**

B 4

Tridelpia Rd. 11 NEAR WHAT ROAD 30

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

DISTANCE FROM ROAD **35** ENTER FT OR MI FT

TAX MAP: _____ BLK: _____ PARCEL _____

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard Co COUNTY NAME **A58028** COUNTY NO.

STATE SIGNATURE _____ DATE ISSUED **012298** **A M Milken** **1/22/99**

43 NORTH GRID **525000** 48 CO-SIGNATURE _____ 55 EAST GRID **0810000** 57 EXP. DATE _____ 63

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

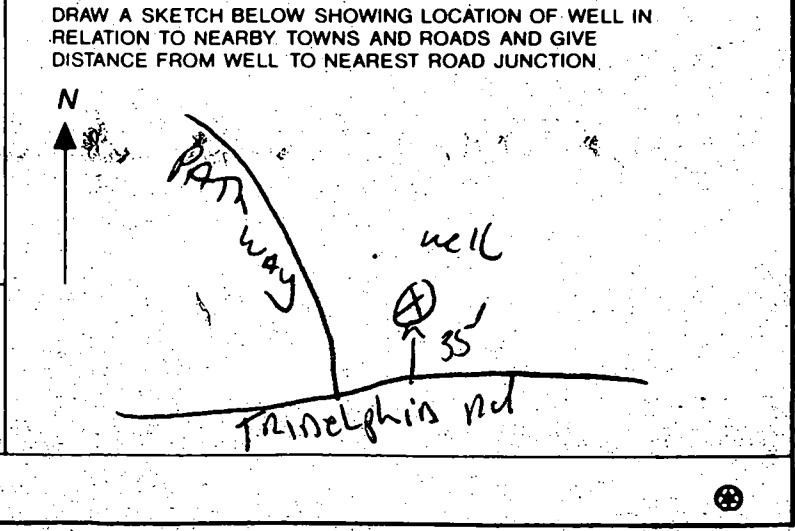
SOURCES OF DRILLING WATER

- well**
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

890

58025



9/23/99
A.M.
410-313-2648

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-B Ellicott Mills Drive
Ellicott City, MD 21043
410-313-2640

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
Replacement _____

Receipt # _____
Date _____

Name of Installer CLARKE P & H INC

Telephone 489-4029

License Number 3808

Certified Well Pump Installer _____ Well Driller _____ Registered Plumber 3808

Name of Property Owner HAMILTON REED

Telephone 480-9105

Subdivision Benson Branch overlook Lot # 4

Well Tag # _____

Site Address 3600 Burgess Estates Dr

Pump

- 1. Type
 - a. Deep well jet _____
 - b. Shallow well jet _____
 - c. Submersible

Motor

- 1. Horsepower _____
- 2. RPM _____
- 3. Voltage _____
 - a. 110 _____
 - b. 220

Pitless Adapter

- 1. Make P-T-300
- 2. Model # _____
- 3. Depth 42"

2. Make _____

3. Model # _____

4. Capacity _____ GPM

5. Pump exceeds well capacity Yes _____ No _____

6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____

7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors _____ Cable guards _____ Other _____

Tank

- 1. Capacity 42
- 2. Pressure relief valve? 75/6

Piping

- 1. Type PLASTIC
- 2. Size 1"
- 3. NSF and/or BQCA Code approved _____
- 4. Depth of supply line 42"

Well data

- 1. Depth _____ ft.
- 2. Yield _____ GPM
- 3. Static water level _____ ft.
- 4. Will water supply be disinfected by installer? NO

2-piece cap. # 94-1383. Casing 21" above grade, Pitless 4' below grade. Grout o.k. House connection o.k. (BB)

9/23/99

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: Kenneth C. Clarke

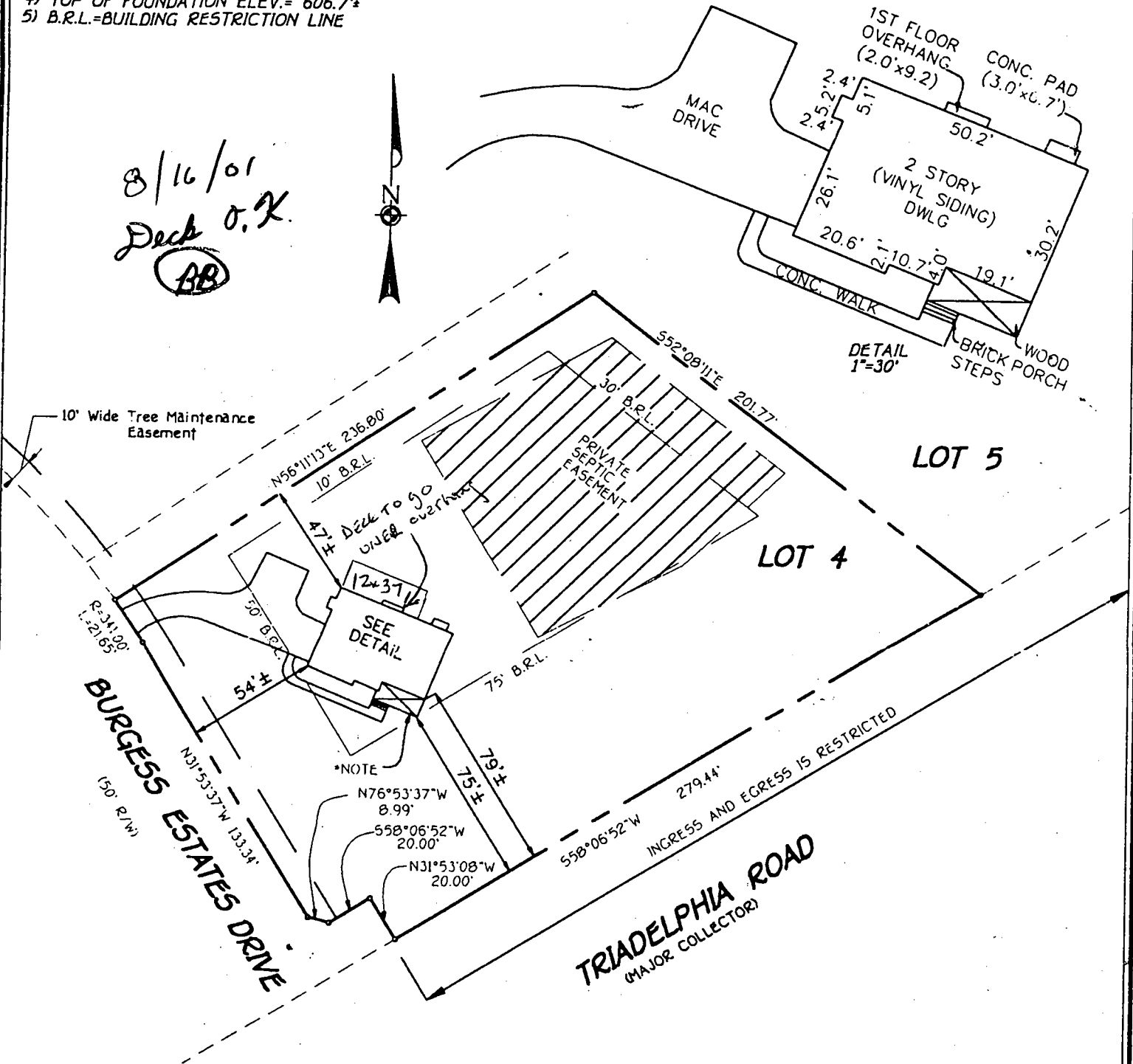
Date: 9-23-99

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

GENERAL NOTES:

- 1) THIS PLAT 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 RE-FINANCING. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS PLAT 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 PLAT DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINE, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR 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. 240044 0021 B EFFECTIVE DATE: DEC. 4, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF 1' PLUS OR MINUS (+).
- 4) TOP OF FOUNDATION ELEV.= 606.7'
- 5) B.R.L.=BUILDING RESTRICTION LINE

8/16/01
Deck O.K.
AB



***NOTE**
SECTION 12B OF THE ZONING DISTRICT REGULATIONS UNDER IC. ALLOWS OPEN ENCLOSED PORCHES TO PROJECT NOT MORE THAN 10 FEET INTO A FRONT SETBACK AREA

LOT 4
BENSON BRANCH OVERLOOK
LOTS 4 THRU 18 AND PARCELS A AND B
HOWARD COUNTY, MARYLAND
THIRD ELECTION DISTRICT
PLAT REF. 3376