

2/6/01
2/7/01

RPS# 364864

PERMIT
SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

P 514694-B
A 58947-A

ISSUE DATE 12/7/2000
APPROVAL DATE 2/7/01

INDEXED

Union Paving Company, Inc. IS PERMITTED TO INSTALL X ALTER

ADDRESS 5977 Sandy Ridge Road, Elkridge, MD 21075 PHONE 410-379-6463
SUBDIVISION Windridge Farms LOT NUMBER 1 ADDRESS 14540 Dorsey Mill Road
PROPERTY OWNER Hamilton Reed PROPERTY OWNER'S ADDRESS 8000 Main Street
SEPTIC TANK CAPACITY 1250 GALLONS Ellicott City, MD 21043
PUMP CHAMBER CAPACITY N/A GALLONS
NUMBER OF BEDROOMS 4
SQUARE FEET PER BEDROOM 180
LINEAR FEET OF TRENCH REQUIRED 240

**BUILDING PERMIT SIGN
AND RETURNED**
2-19-04 B8D146290-DECK

TRENCHES: Trenches to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. 2.0 feet of stone below distribution box.
LOCATION: Begin trenches 60 feet off the front lot line (Dorsey Mill Road) and 120 feet off the left lot line as seen when facing the lot from Dorsey Mill Road. Run trenches on contour in both directions.

ON SRK 9/19/00

PLANS APPROVED Craig Williams DATE 8/1/00

PERMIT VOID AFTER 2 YEARS

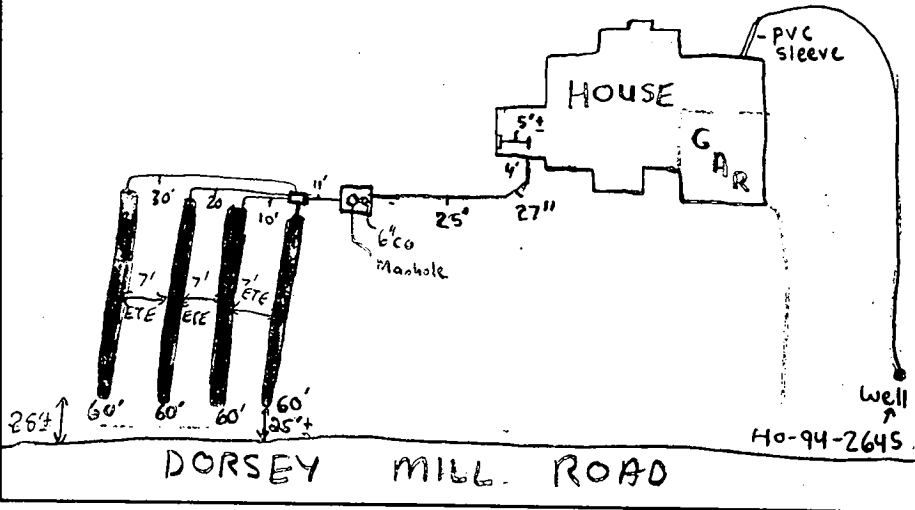
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE
- NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED
- NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED
- NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES
- NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC 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 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

P514694-B

NOT TO SCALE

NO TRENCH DIVULGID
AND RETURNED



TRENCH DATA

TRENCH WIDTH 3'
 TRENCH INLET DEPTH 3'
 TRENCH BOTTOM DEPTH 5'
 DEPTH OF STONE 2'
 NUMBER OF TRENCHES 4
 TOTAL TRENCH LENGTH 240'
 ABSORBENT AREA 720 ft²
 DISTRIBUTION BOX LEVEL
 BAFFLE IN DISTRIBUTION BOX

SEPTIC TANK DATA

SEPTIC TANK 1250 TS GALLONS
 MANHOLE RISER on center
 6 INCH INSPECTION PORT on front

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS NA
 MANHOLE RISER NA
 ALARM NA
 PUMP PERFORMANCE TEST NA

PRE-CONSTRUCTION INSPECTION: 2/6/01 - OK TO INSTALL PER PLAN - (SRK)

INSPECTION COMMENTS: 2/6/01 - OK TO COVER FROM HOUSE TO TANK AND CONTINUE - (SRK)
2/7/01 - OK TO COVER ALL WORK - (SRK)

INSPECTOR Steven R. Krieg DATE SYSTEM APPROVED 2/7/01

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 of Engineer: *[Signature]* Date: 6-19-00

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 of Developer: *[Signature]* Date: 6-19-00

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

Signature: *[Signature]* Date: 7/13/00

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

Signature: *[Signature]* Date: 7/13/00

HOWARD SOIL CONSERVATION DISTRICT

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, disking or other acceptable means before seeding. If not previously loosened.

SOIL AMENDMENTS

Apply 500 lbs. per acre 10-10-10 fertilizer (4 lbs./1000 Sq. Ft.)

SEEDING

For the periods March 1 through April 30, and August 15 through November 15, seed with 1-1/2 bushels per annual ryegrass (3.2 lbs./1000 Sq. Ft.) for the period May 1 thru August 14. Seed with 3 lbs./acre of weeping lovegrass (0.7 lbs./1000 Sq. Ft.). For the period November 16 thru February 29, 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./1000 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./1000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 340 gallons per acre (6 gal./1000 Sq. Ft.) for anchoring.

PERMANENT SEEDING NOTES

Disturbed areas shall be stabilized as follows:

SEEDING PREPARATION

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

SOIL AMENDMENTS

Apply two tons per acre Dolomitic Lime Stone (92 lbs./1000 Sq. Ft.) and 600 lbs. per acre 0-20-20 fertilizer (4 lbs./1000 Sq. Ft.) before seeding harrow or disking. Into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-30 uniform fertilizer (9 lbs./1000 Sq. Ft.) and 500 lbs. per acre (11.5 lbs./1000 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./1000 Sq. Ft.) of Kentucky 31 Tall Fescue, for the period May 1 through July 31, seed with 60 lbs./acre (1.4 lbs./1000 Sq. Ft.) Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs./1000 Sq. Ft.) of weeping lovegrass. During the period of October 16 through February 29, protect site by Option C - two 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./1000 Sq. Ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gal./1000 Sq. Ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher use 340 gallons per acre (6 gal./1000 Sq. Ft.) for anchoring.

MANTENANCE

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

TOPSOIL SPECIFICATIONS

Soil to be used as topsoil must meet the following: Topsoil shall be a loam, sandy loam, clay loam, silt loam, silty clay loam, silty sand, or other soils may be used if recommended by 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

Topsoil must be free of plants or plant parts such as Bermuda Grass, Quackgrass, Johnson grass, Nutcracker, Poison Ivy, Thistle, or others as specified.

WHERE THE TOPSOIL IS EITHER LIGHTLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE APPLIED AT THE RATE OF 1-1/2 TONS PER ACRE (40 LBS./ACRE) AS THE SEEDING REQUIREMENT.

Optimum seeding date for this mixture is March 1 to April 30.

For sites having disturbed areas under 5 acres:

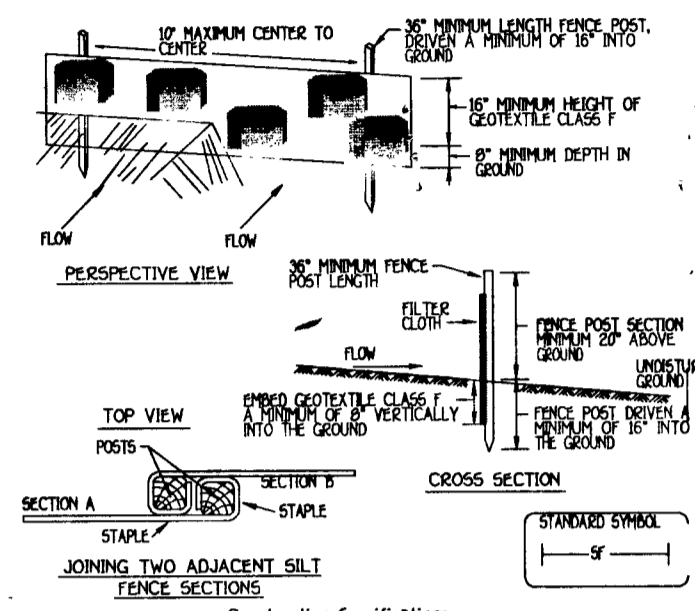
Place topsoil if required and apply soil amendments as specified in 20.0 vegetative stabilization-Section 1 - Vegetative Stabilization Methods and Materials.

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, 15 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.

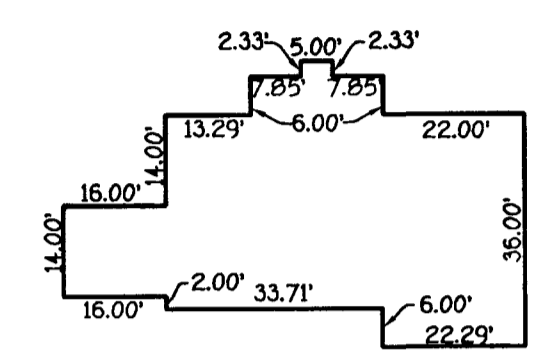
Composted sludge shall be amended with a Potassium Fertilizer applied at the rate of 4 lb./1,000 Sq. Ft., and 1/3 the normal lime application rate.



- Fence posts shall be a minimum of 3/4" long driven 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
- 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
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

SILT FENCE
NOT TO SCALE



DETAIL
SCALE: 1" = 30'

Approved Septic System Plan
Howard County Health Department
B00125493 SFD - 4BR
[Signature] 8/1/00

BUILDABLE PRESERVATION PARCEL 'A'

total linear feet of trench required **2400** Feet
Width of trench(es) **3** feet
Depth of trench(es) **5** feet
Depth of stone required below distribution pipe **2** FT

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 (313-1055).
- 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 30 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER 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), 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 PERMISION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	1.15	ACRES
AREA DISTURBED	0.27	ACRES
AREA TO BE ROOFED OR PAVED	0.03	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.85	ACRES
TOTAL CUT	211	CYLOS.
TOTAL FILL	211	CYLOS.

ANY SEDIMENT CONTROL STRUCTURE AREA LOCATION:

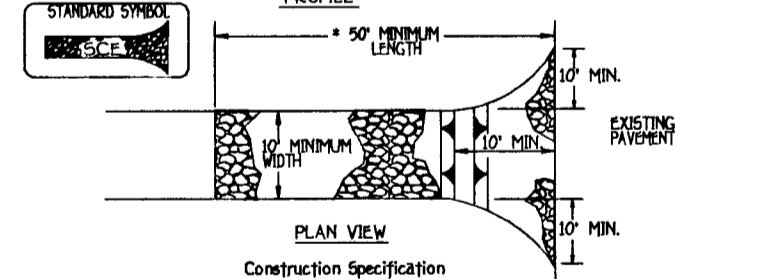
ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

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 PERIMETER EROSION 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 MADE.

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.



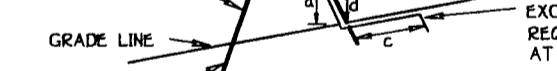
STABILIZED CONSTRUCTION ENTRANCE - 2

- 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 and protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe shall be sized according to the drainage. When the stone is located at a high spot and has to discharge to cover a pipe which is not to be covered, pipe shall 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.

NOT TO SCALE

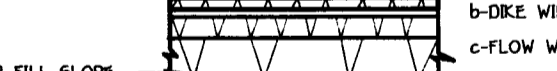
EARTH DIKE
NOT TO SCALE

2:1 SLOPE OR FLATTER



CROSS SECTION

POSITIVE DRAINAGE SUFFICIENT TO DRAIN



PLAN VIEW

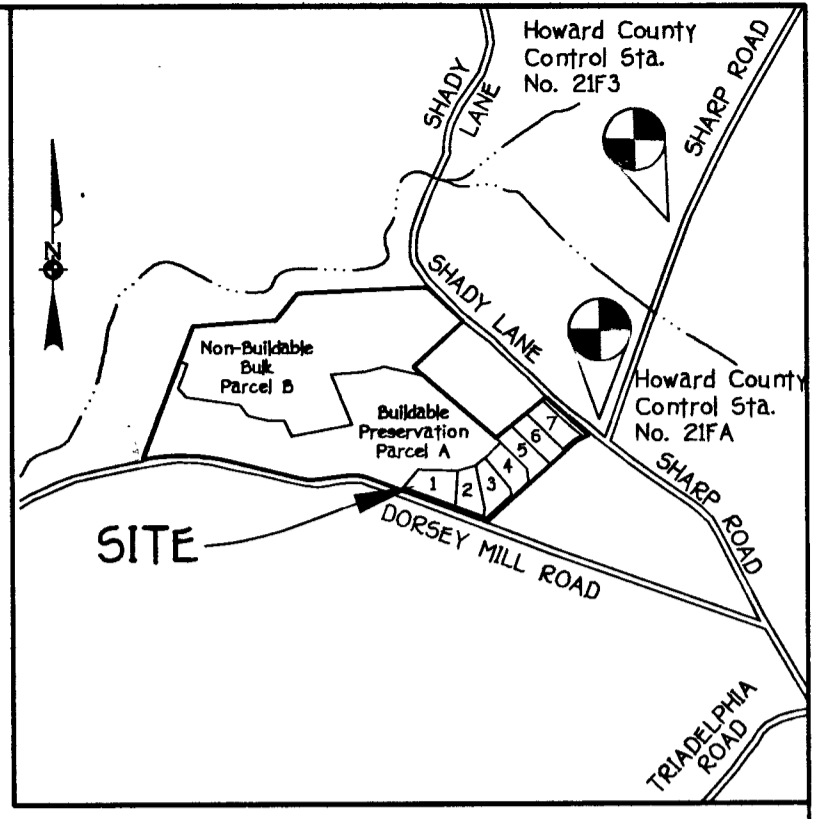
FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.

- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or line with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.

Construction Specifications

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2955



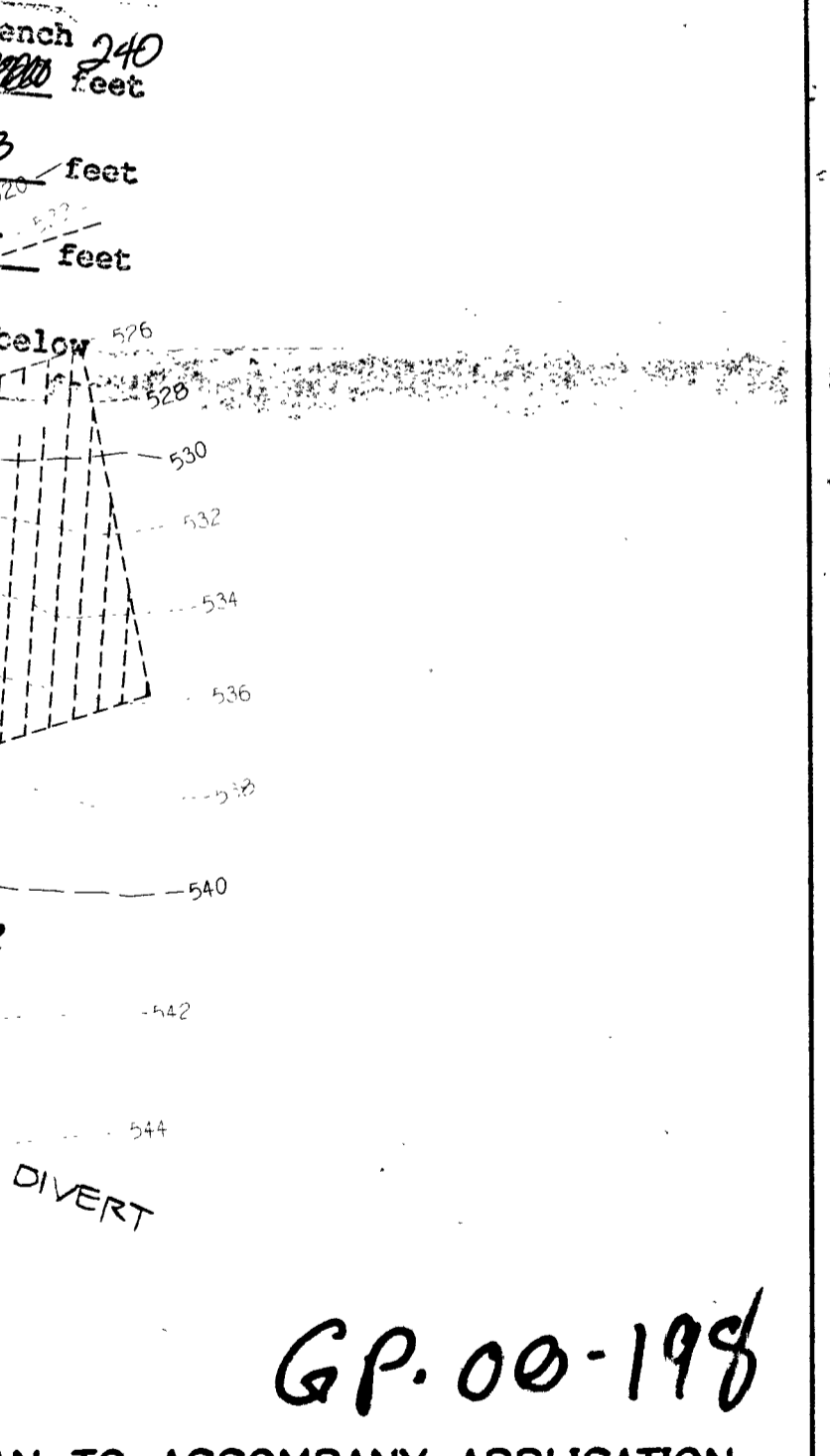
VICINITY MAP
SCALE: 1" = 1200'

GENERAL NOTES

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
- PROPOSED 1500 GALLON SEPTIC TANK.

A. FIRST FLOOR ELEVATION	535.50
B. BASEMENT ELEVATION	520.50
C. INVERT OF SEPTIC SYSTEM AT HOUSE	520.30
D. INVERT IN AT SEPTIC TANK	520.60
E. INVERT OUT AT SEPTIC TANK	520.30
F. PROPOSED GRADE OVER SEPTIC TANK	522.00
G. INVERT AT DISTRIBUTION BOX	520.00
H. EXISTING GROUND OVER DISTRIBUTION BOX	523.00
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.

NOTE: THERE IS NO SEWER SERVICE TO SEPTIC SYSTEM.



GP.00-198
PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT
WINDRIDGE FARMS
SECTION 2, AREA 1
LOT 1

TAX MAP 21
FOURTH ELECTION DISTRICT
SCALE: 1" = 50'
PARCEL 31
HOWARD COUNTY, MARYLAND
DATE: MAY, 2000

313-2648

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: CLARKE PTH Inc Telephone #: 410-489-4029
Address: 3510 Ridge Rd
Westminster, MD 21157

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:

Name (Print): Ken Clarke License# 3808

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Hampton Road Telephone #: 410-480-9196
Subdivision: Windsor Farms Lot #: 1 Well Tag #: HO-94-2645
Site Address: 14540 Dorsey Mill Rd

Submersible Pump Data

Make: Jacuzzi
Model #: _____
Pump Capacity 7 GPM
Well Yield: 15 GPM

Pitless Adapter

Make: Howard
Model#: P-7-800
Depth: 42 (36" min)
NSF approved: _____

Well Cap and Electric Conduit

Two piece watertight cap:
Screened, vented well cap: _____
Cap secured to casing: _____
Conduit min 18" B.G.:
Conduit secured to well cap:

Depth of well encountered at time of pump installation: _____ (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt _____

Piping to house

Type: Plastic
PSI: 1 (160 psi min)
Depth of supply line: 1 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration:
Approximate length of sleeve: 15'
Sleeve caulked and sealed properly:

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Ken Clarke date: NOV-9-00

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 2/7/01 Date Insp. Approved: 2/13/01
Inspection Data: Pitless adapter and water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope installed inside of well casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

SRK/BB
RB

C1 07730 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED. OK CW COUNTY NUMBER 13 SRN

ST/CO-USE ONLY DATE RECEIVED MM DD YY 04 28 00

DATE WELL COMPLETED MM DD YY 04 28 00 DEPTH OF WELL 22 165 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2645

OWNER MLD ATTORNEY DEV BAS DEV, STREET OR RFD DONSEY MILL RD. TOWN GLENELB SUBDIVISION WINDRIDGE FARM SECTION 1 LOT 1

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandy, Sand Stone, MICKA, and Sand Stone MICKA.

GROUTING RECORD form with fields for WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for casing types insert appropriate code below, MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used) form with fields for diameter, depth (feet).

SCREEN RECORD form with fields for screen type or open hole, insert appropriate code below, DEPTH (nearest ft.).

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, IF DRILLER INSTALLS PUMP, TYPE OF PUMP INSTALLED, PLACE, CAPACITY, GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED: YES (Y) NO (N)

- CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

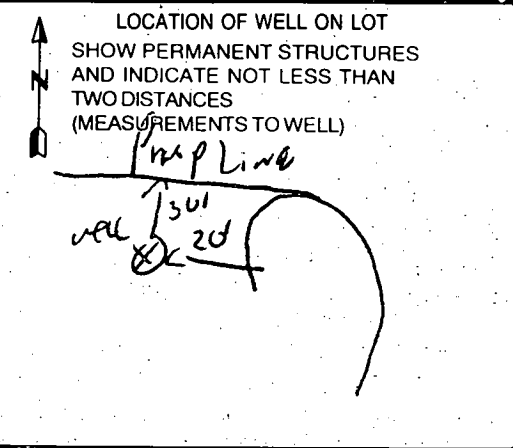
DRILLERS LIC. NO. 1 M SD 116 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 MS D 112

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

DEPTH (nearest ft.) table with rows for casing sections and slot size/diameter of screen.

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



B 1 04781

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

H0-94-2645 fill in this form completely

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

Date Received (APA)

Grid for Date Received

OWNER INFORMATION

Owner information grid: BR5 DEVEL, RALPH MAYNE, 8805 CENTER PARK DR, COLUMBIA, MD 21045

DRILLER INFORMATION

Driller information: RALPH MAYNE, RALPH MAYNE WELL DRILLING, 7120 SHOWN CHURCH RD NW, WASHINGTON DC, 4-26-00

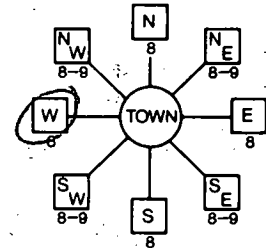
B 3

LOCATION OF WELL

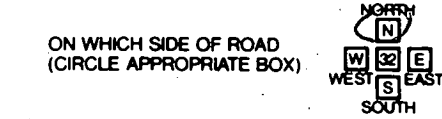
Location of well grid: HOWARD, WINDRIDGE FARMS, SECTION 44, LOT I, SLEWELG, 1 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Donsey Mill Rd NEAR WHAT ROAD



50 DISTANCE FROM ROAD ENTER FT or MI 1/4

B 2

WELL INFORMATION

Well information: APPROX. PUMPING RATE 5 GAL PER MIN, AVERAGE DAILY QUANTITY NEEDED 500 GAL PER DAY

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)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Approval section: HOWARD, COUNTY NAME, DATE ISSUED 042600, CO SIGNATURE C. Will, EXP. DATE 4/25/01, NORTH GRID 523000, EAST GRID 0793000

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

Method of drilling: BORED (or Augered), JETTED, Jetted & DRIVEN, AIR-ROTARY, AIR-PERCussion, ROTARY (Hydraulic Rotary), CABLE, REVerse-ROTary, Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

Replacement or deepened wells: 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, D THIS WELL WILL DEEPEM AN EXISTING WELL

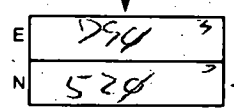
Not to be filled in by driller (OEP USE ONLY)

Approp. permit number GAP, FORCE 2, PERMIT No. H0-94-2645

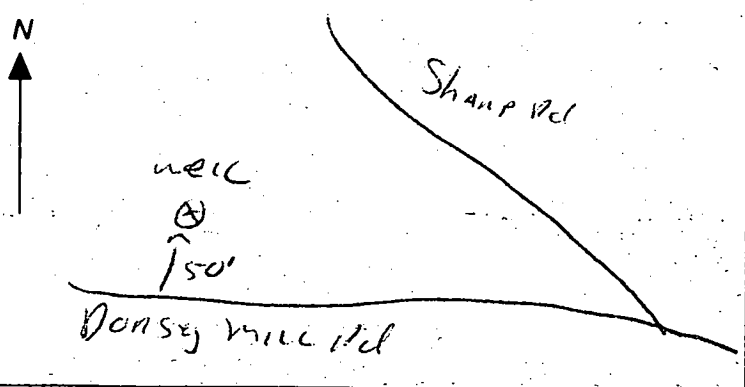
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1 well

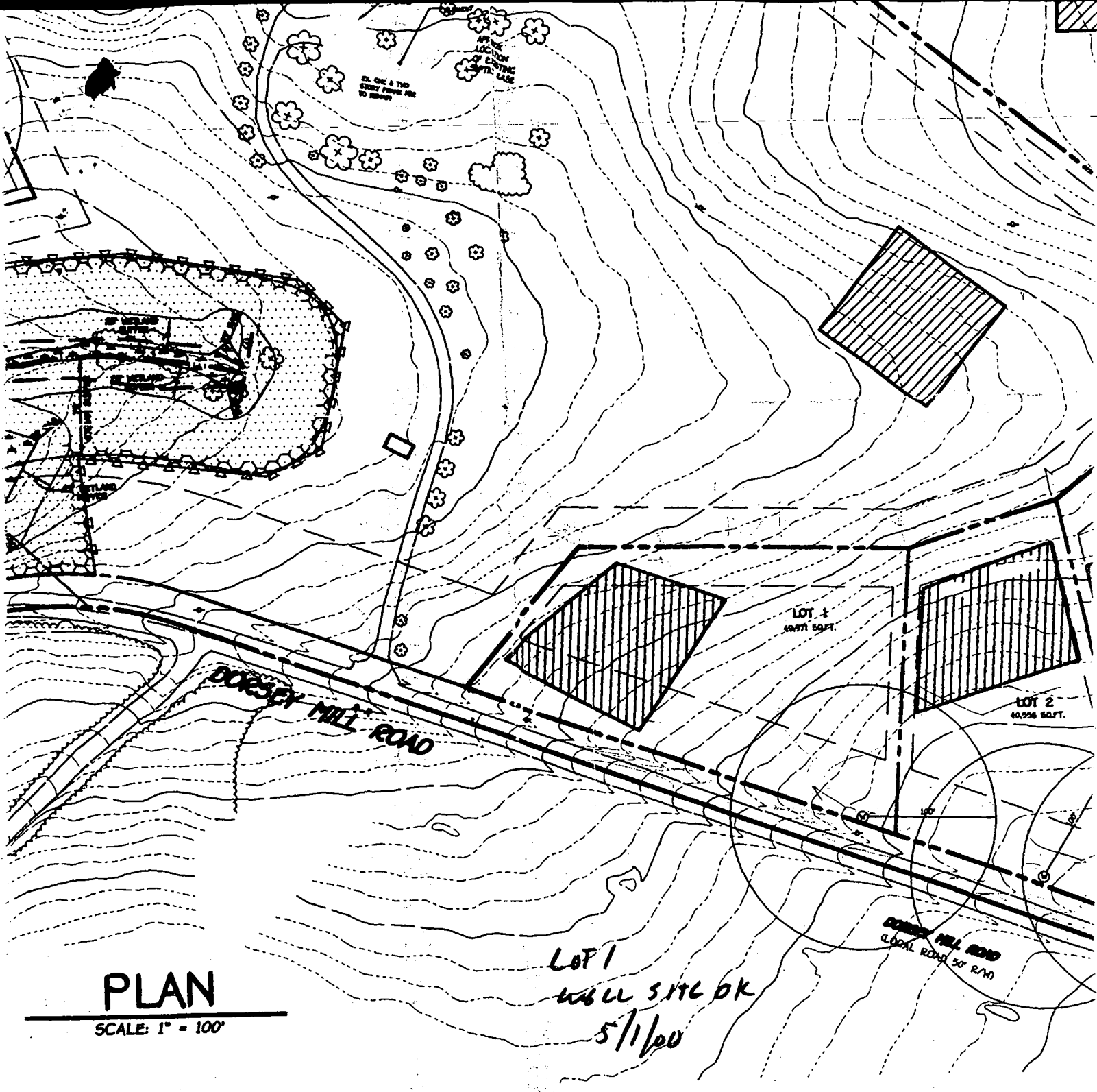
WRITE THE BOX NUMBER FROM THE MAP HERE



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



SPECIAL CONDITIONS

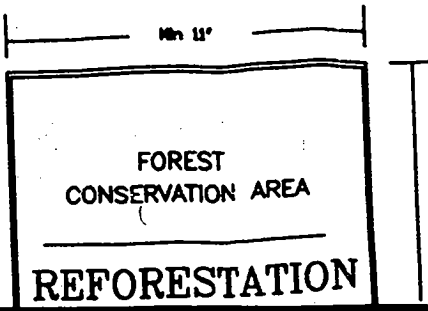


PLAN

SCALE: 1" = 100'

LOT 1
WELL SITE OK
5/1/00

MIN. O.C. PACING	SIZE & REMARKS
11'	CONT/BROOT 3'-5' HEIGHT
11'	CONT/BROOT 3'-5' HEIGHT
11'	CONT/BROOT 3'-5' HEIGHT
11'	CONT/BROOT 3'-5' HEIGHT
11'	CONT/BROOT 3'-5' HEIGHT
11'	CONT/BROOT 3'-5' HEIGHT



BACKFILL WITH NATIVE SOIL

APPLICATION

PERCOLATION TESTING

A 58947V

P _____

DISTRICT 04

DATE _____

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

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 Ray & Jane Cabbage

ADDRESS 14504 Dorsey Mill Rd Glenelg MD PHONE 410-489-7017

AGENT OR PROSPECTIVE BUYER Susquehanna LAND Holding Co.

ADDRESS 1814 Hyman LN Crofton MD PHONE 410-451-3910
21114

PROPERTY LOCATION:

SUBDIVISION Cabbage Sub LOT NO. 22 (18)

ROAD AND DESCRIPTION _____

TAX MAP 21 PARCEL # 31

SIZE OF LOT 1 ± Ac. 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. _____
(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

58947V
COUNTY #

SOIL PROFILE

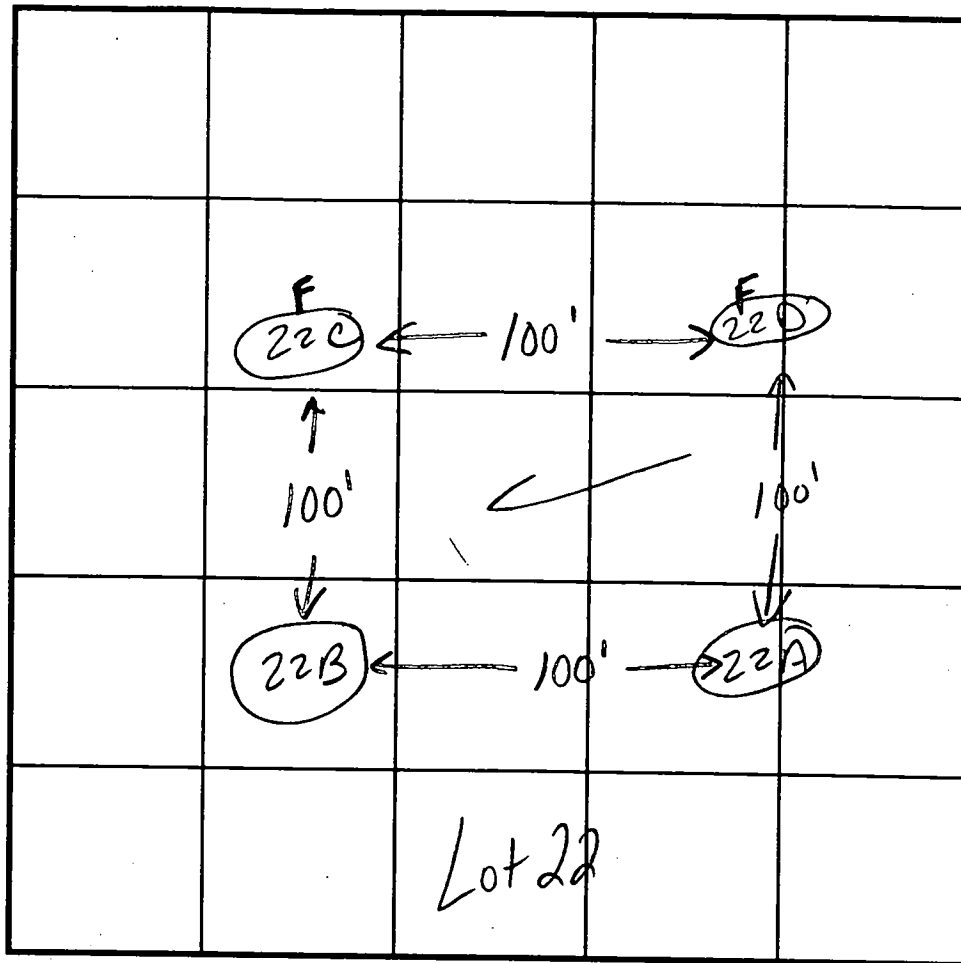
0' 22A
or/br
Clay
loam
20'
1/4 tan/
orange
Silty
sand
loam
15%
shale
frags
12.0'

22B

0' or/br
Clay
loam
2.0'
1/4 tan
Silty
sand
loam
10% shale
frags
9.0'
Mottles
Poss. wet?
11.5'

22C

Same
as
test
hole
#220



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 22D
or/br
Clay
lm
30'
br/grey
Silty
loam
(moist)
10.0'
WATER

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10-6-97	22A	3.0'S	11:54 ₃₀	11:56 ₃₀	11:56 ₃₀	11:58	130
		12.0' D					
	22B	2.0'S	12:24 ₂₀	12:25	12:25	12:26	1min
		11.5' D					
	22C	WATER AT 8.5'					F
	22D	3.0'S	12:14	12:14 ₃₀	12:14 ₃₀	12:16	130
		WATER AT 10.0'					F

REMARKS test holes staked

TYPE OF SOIL

TESTED BY

Kim Maiste / Amy McMillen ALSO PRESENT Hugo + Jeff

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

2-3 minutes

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

180

APPLICATION

PERCOLATION TESTING

A _____

P _____

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

DISTRICT _____

DATE _____

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 _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 18

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(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.

(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

58947V

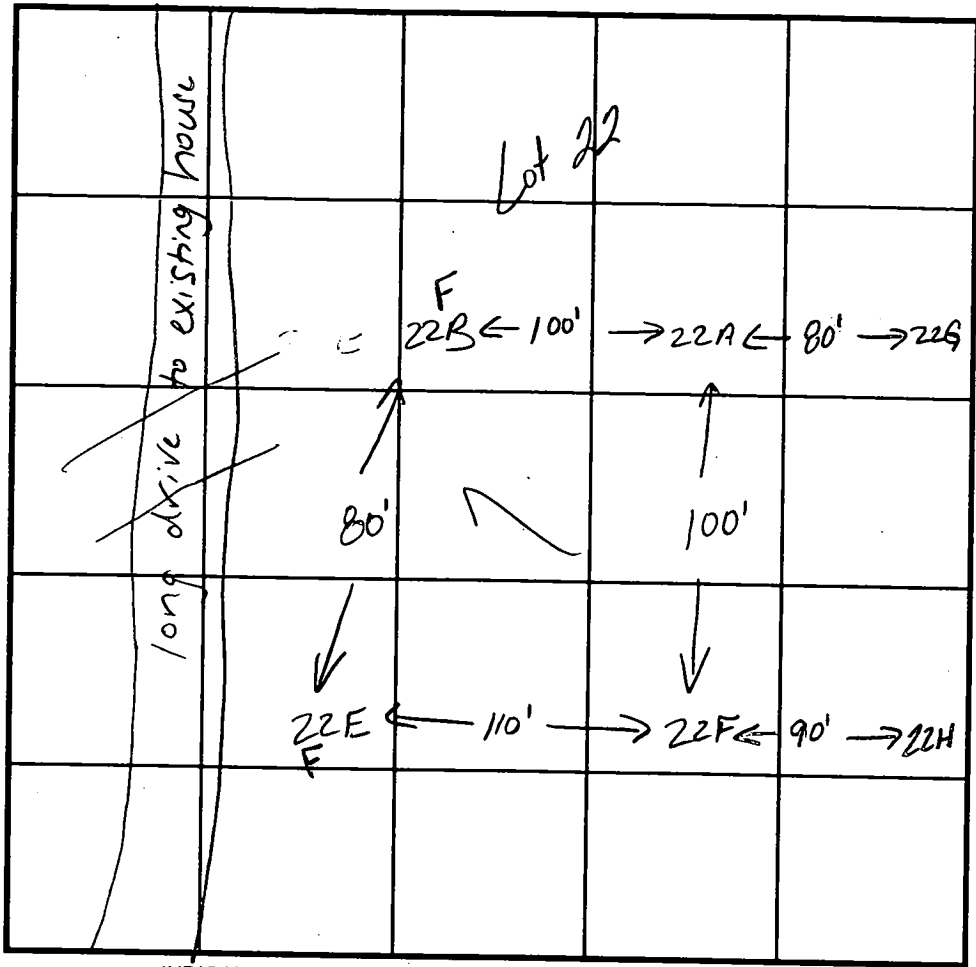
COUNTY #

SOIL PROFILE

0' **22B**
 or/br
 cl/m
 2.0' br/red
 cl/sil/m
 redox
 features
 15% shale
 frags
 ↓
 11.0'
 12.0' WATER

22E
 or/br
 cl/m
 1.5' 14 tan
 sil/m
 5.0' rx outcrop
 ↓
 10.0' 20-25%
 rx
 frags

22F
 or/br
 cl/m
 1.5' 14 tan
 sil/m
 10-15%
 shale
 frags
 ↓
 12.0'



SOIL PROFILE

0' **22G**
 Same
 as
 hole
 #
 22F

22H
 Same
 as
 hole
 22F

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Dorsey Mill Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4.28.98	22B	visual	only - see profile				F
	(redug)						
	22E	visual	only - see profile				F
	22F	visual	only - see profile				
	22G	visual	only - see profile				
	22H	visual	only - see profile				

REMARKS _____
 TYPE OF SOIL _____
 TESTED BY Kim Maiste ALSO PRESENT Chuck Zepp
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2-3 min TRENCH WIDTH 3
 INLET DEPTH 2.5 MAXIMUM BOTTOM DEPTH 4.5 SQ. FT./BEDROOM 180

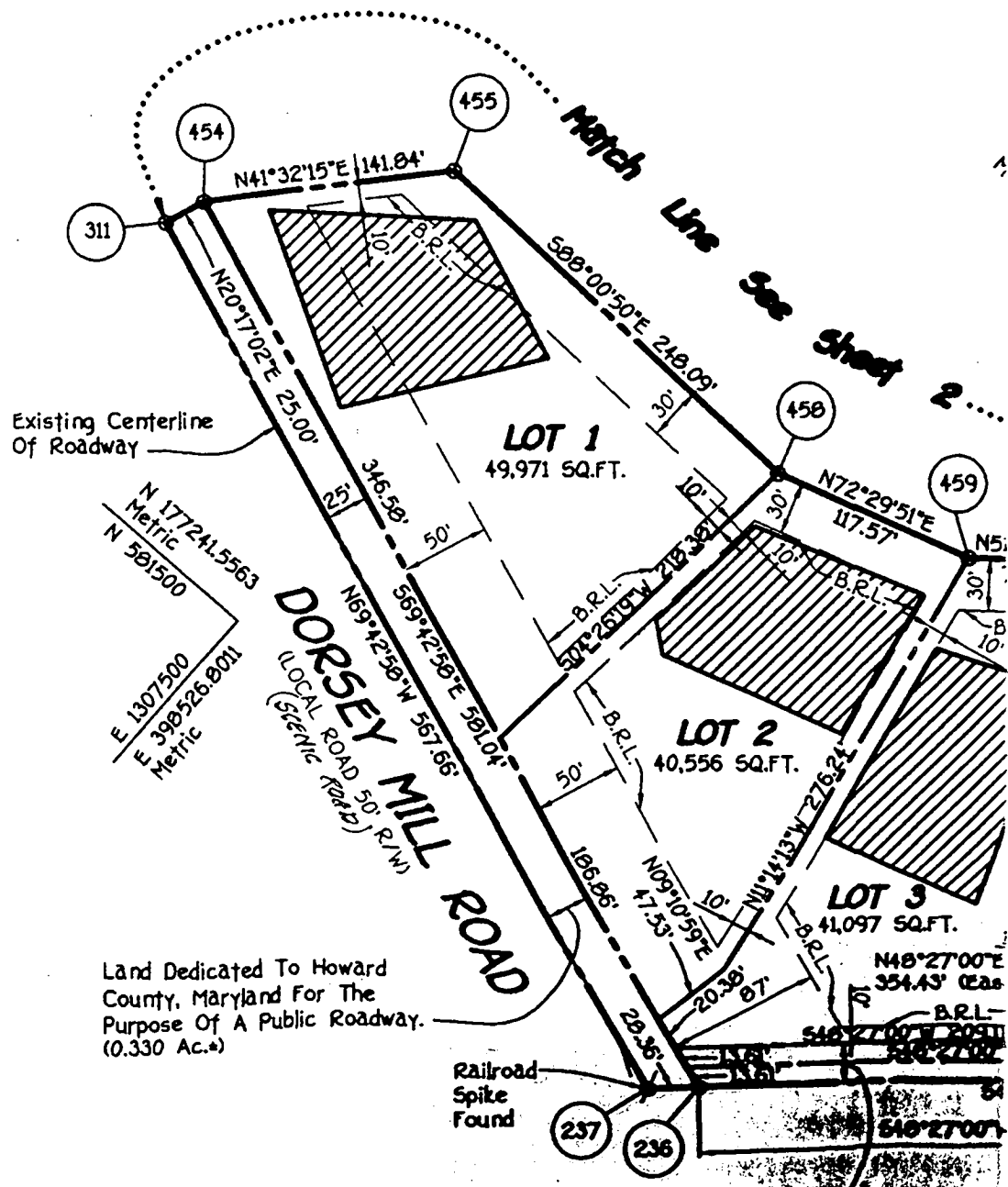
The Requirements §3-108, The Real Property Of Maryland, 1988 Replacement Volume, (As They Relate To The Making Of This Plat) Have Been Complied With

Terrell A. Fisher

Terrell A. Fisher, L.S. #10692
(Registered Land Surveyor)

J. Thomas Scrivener
Cabbage LLC
By: J. Thomas Scrivener

F.00.110



Land Dedicated To Howard County, Maryland For The Purpose Of A Public Roadway. (0.330 Ac.±)

24' Private Use-In-Common Access Easement For The Use And Benefit Of Lot 3, 4 and 5. Maintenance Agreement Recorded

LOTS 1 thru 8 WINDRIDGE PERC HOLES

Lot 1 - 22A, 22B, 22F, 22G, 22H

Lot 2 - 24A, 24B, 24D/25C, 24E,

Lot 3 - 24D/25C, 25A, 25D/26B, 25E, 26C

Lot 4 - 26A/27B, 26D/27C, 26E, 26F

Lot 5 - 26A/27B, 26D/27C, 27A, 27D

Lot 6 - 27A, 27D, 28/1, 28/3

Lot 7 - 28/4, 28/5, 28/6

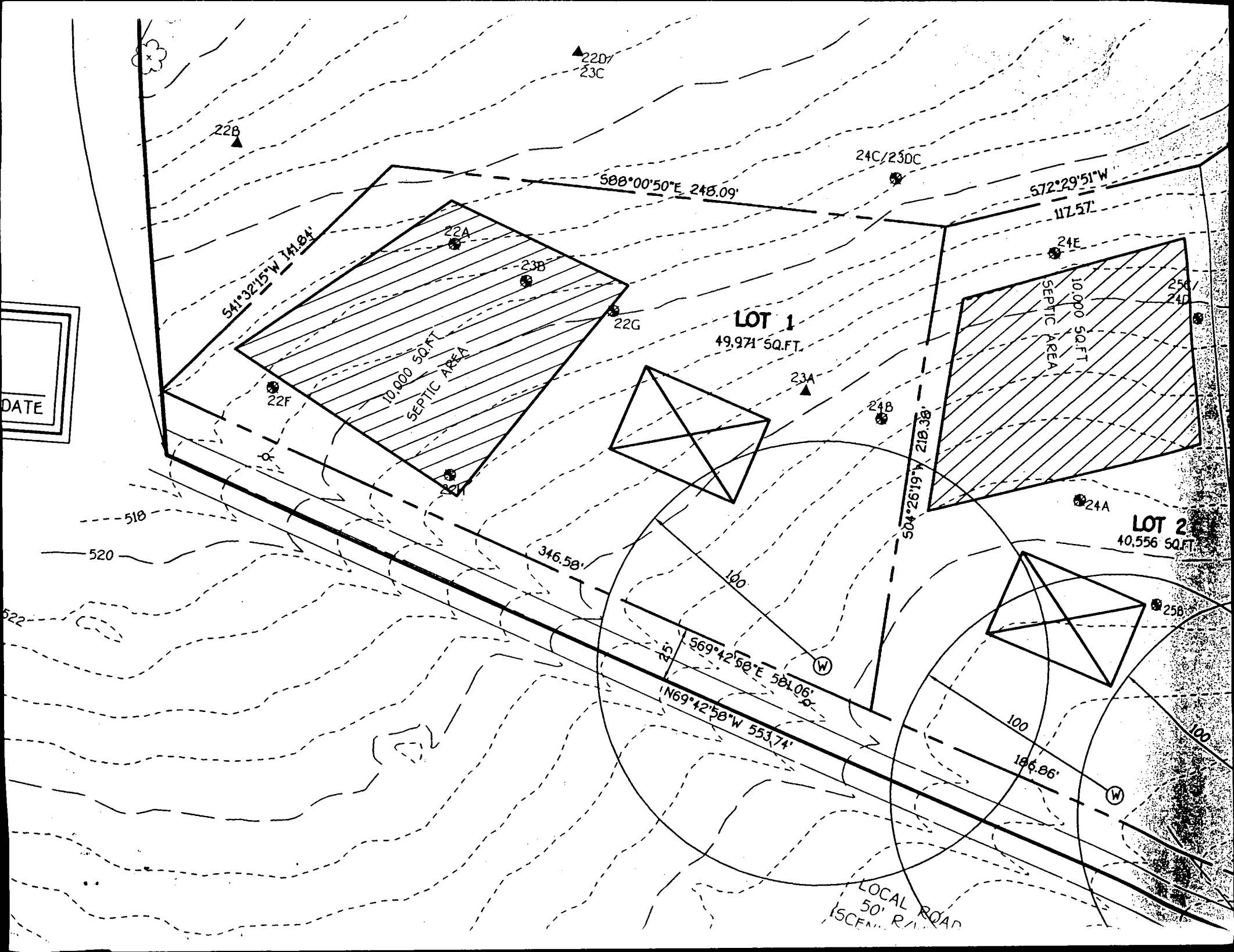
Lot 8 - OPEN SPACE

Buildable Preservation Parcel A -

Alternate area - P1, P2, P3, P4

Existing House - Ex. Hs. A, Ex. Hs. B

DATE

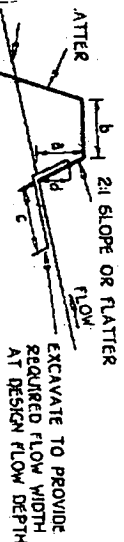


or plant parts such as Pennsylvanian, Ordovician, Devonian, etc. or others as specified.

It shall be the responsibility of the contractor to provide for the placement of topsoil (200-400 pounds/1,000 sq. ft.) prior to the placement of vegetation. The contractor shall be responsible for the operations as described in the following procedures:

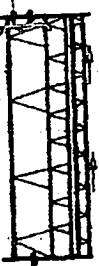
EARTH DIKE

NOT TO SCALE



CROSS SECTION

POSITIVE DRAINAGE SUFFICIENT TO DRAIN



PLAN VIEW

LOW CHANNEL STABILIZATION GRADE 0.5% MAX 10% MAX

DIKE A	DIKE B
a-DIKE HEIGHT	18"
b-DIKE WIDTH	24"
c-FLOW WIDTH	4'
d-FLOW DEPTH	12"

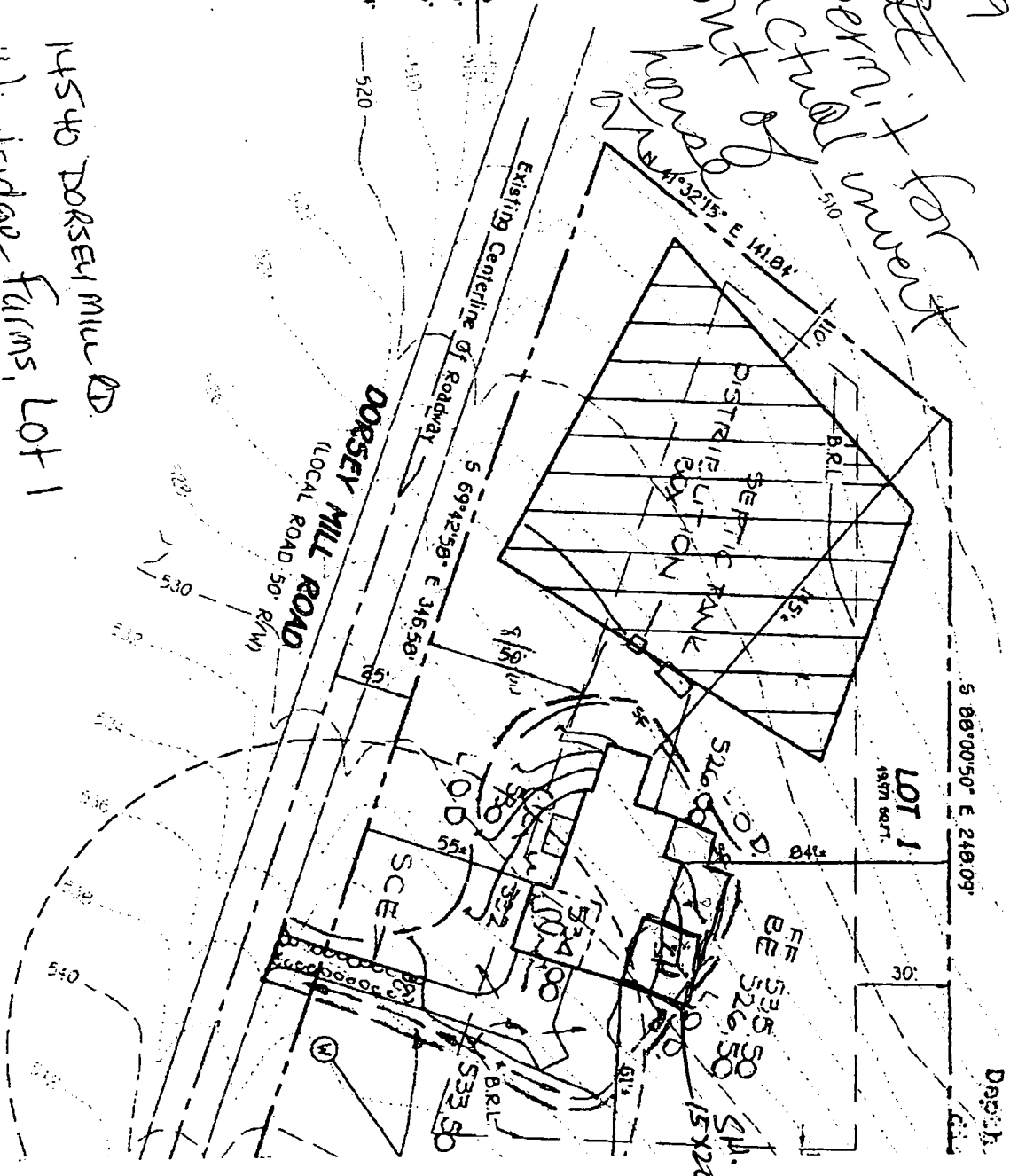
- h straw mulch.
- h Erosion Control Matting or lime with sod.
- h recycled concrete equivalent precast into

Construction Specifications

Dikeys shall have uninterrupted positive grade to elevations may be necessary for grades less than 1% from a disturbed area shall be converted to a 9 device from an undisturbed area shall outlet directly into stabilized area at a non-erosive velocity. stumps, obstructions, and other objectionable functioning of the dike. excavated or shaped to line, grade and cross red to meet the criteria specified herein and be operations or other irregularities which will impede packed by earth moving equipment. ed and not needed for construction shall be placed not interfere with the functioning of the dike. maintenance must be provided periodically and after

2/19/04 proposed deck
loc. OK NO
septic or well
ISSUES (KIN)

14540 DORSEY MILL RD.
Winbridge Farms, LOT 1
BOONWARD



Dorsey