

LAYOUT 10/8/02 2:15 Ham INSP 4 12/10/02 1:30pm  
 INSP 2 10/15/02 2-3 INSP 5 \_\_\_\_\_  
 INSP 3 10/28/02 11:00 INSP 6 \_\_\_\_\_

ISSUE DATE: 10/11/2002  
 APPROVAL DATE: 12/10/02

P 517939  
 A 517411-A

**PERMIT**  
**INDEXED**

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

03-338002

Walter W King Plumbing & Heating IS PERMITTED TO INSTALL  ALTER

ADDRESS: 5305 Kings Court, Frederick PHONE NUMBER: 301-831-4070  
81 was 77

SUBDIVISION: Gaither Hunt LOT NUMBER: 81 (was 77)

ADDRESS: 11026 Dorsch Farm Rd PROPERTY OWNER: Ryan Homes

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED   
1250

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: NA

LINEAR FEET OF TRENCH REQUIRED: NA

TRENCHES:	<del>Trench to be _____ feet wide. Inlet _____ feet below original grade. Bottom maximum depth _____ feet below original grade. Effective area begins at _____ feet below original grade. _____ feet of stone below distribution pipe.</del>
LOCATION:	To be determined at pre-construction meeting at the site. Entire septic disposal easement to be fenced during house construction phase.
NOTES:	FOR SAND MOUND SYSTEM ONLY. See specific design plans by <del>Fisher, Collins &amp; Carter, Inc.</del> and approved 8/5/2002. <u>S/E Engineering, Inc. &amp; Overall BP site plan by FCC Approved 8/5/02</u>

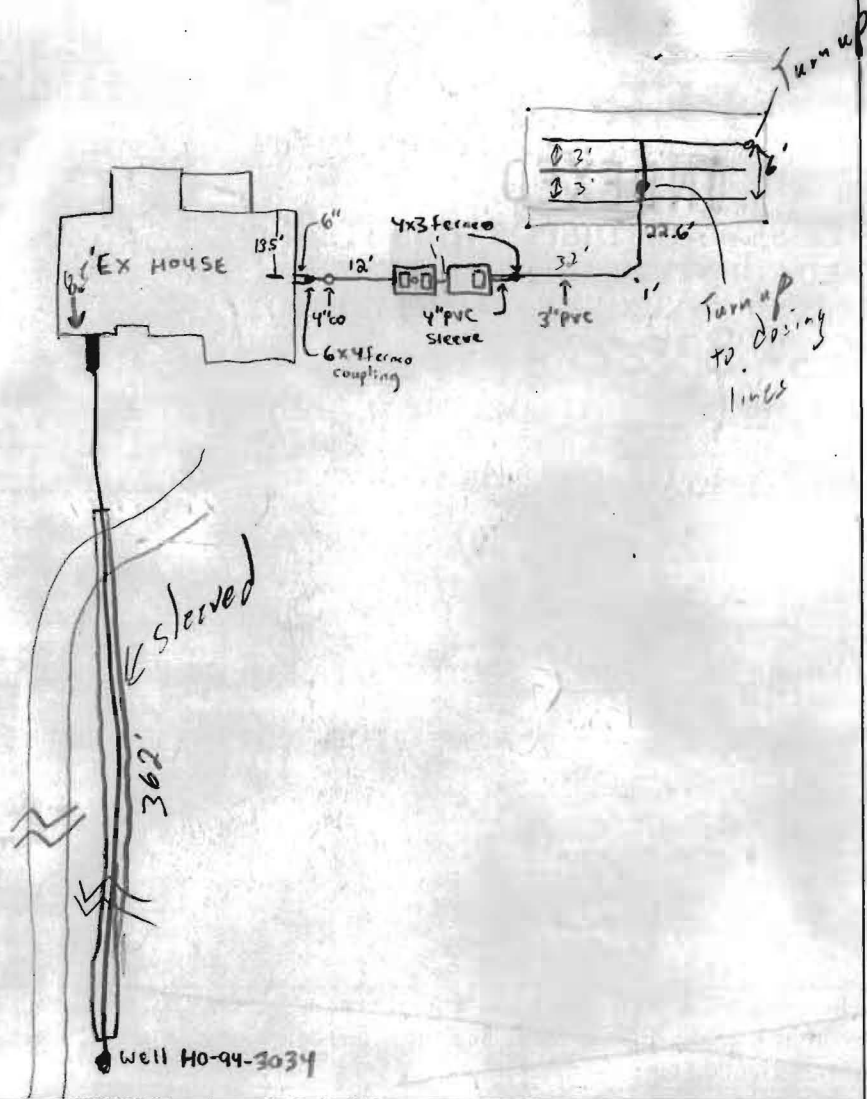
PLANS APPROVED: Ronald Pinkley OK SRK 10/1/02 DATE: 8/5/2002

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

**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**

A517411-A

NOT TO SCALE



DORSCH FARM

ROAD

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA		
SEPTIC TANK 1 LEVEL <input checked="" type="checkbox"/>		
Comp. chamber	CAPACITY	1500 GAL
	SEAM LOC	Topseam
	TANK LID DEPTH	2'±
	BAFFLES	Inlet, Between chambers, Outlet
	BAFFLE FILTER	Outlet
	MANHOLE LOC	Front & Rear
	6" PORT LOC	center
	WATERTIGHT TEST	NA
SEPTIC TANK 2 LEVEL <input checked="" type="checkbox"/>		
Single chamber	CAPACITY	1500 GAL
	SEAM LOC	Top
	TANK LID DEPTH	2'±
	BAFFLES	Inlet
	BAFFLE FILTER	NA
	MANHOLE LOC	Rear
	6" PORT LOC	NA
	WATERTIGHT TEST	NA

PRE-CONSTRUCTION 10/8/02 - SDA STAKED, SAND MOUND AREA PLOWED OK TO CONSTRUCT MOUND OF SAND, CONTRACTOR HAS INSTALLED SAND MOUNDS BEFORE (SRK)

INSTALLATION 10/15/02 Sand, gravel, all piping in place. Call for inspect. of clay cap (SO) 10/28/02 Clay cap & geo textile fabric installed. Completed pump test w/ generator for power. Adjusted flow to proper level. Need alarm test when power is ran to house (SO) 12/10/02 Alarm test OK (SO)

FINAL INSPECTOR [Signature] DATE OF APPROVAL 12/10/02

**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: *Earl D. Collins* DATE: 5-5-01

**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: *Michael Shearer* DATE: 5-5-01

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

Signature: *Jim Myers* DATE: 05-30-01

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

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

Signature: *Kristin M. Hill* DATE: 05-30-01

HOWARD SOIL CONSERVATION DISTRICT

**SEQUENCE OF CONSTRUCTION**

1. Obtain grading permit.
2. Install sediment controls as shown on plan and site.
3. Perform necessary grading and establish the site. (2 days)
4. Construct dwelling on site. (90 days)
5. After the site is established and permission is granted from the sediment control inspector, remove sediment controls and establish any remaining disturbed areas.

**TEMPORARY SEEDING NOTES**

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

**SEEDING PREPARATION**

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

**SOIL AMENDMENTS**

Apply 600 lbs. per acre 10-20-20 fertilizer (04 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 bushels per acre (3.2 lbs./1,000 sq. ft.) for the period May 1 thru August 31. Seed with 3 lbs./acre of vernalis leavedges (07 lbs./1,000 sq. ft.). For the period November 15 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 seed.

**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 (34 gal./1,000 sq. ft.) for anchoring.

**PERMANENT SEEDING NOTES**

All disturbed areas shall be established as follows:

**SEEDING PREPARATION**

Loosen upper three inches of soil by raking, discing 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 (04 lbs./1,000 sq. ft.) before seeding. Apply 2 lbs. per acre 0-20-20 fertilizer (02 lbs./1,000 sq. ft.) of vernalis leavedges (07 lbs./1,000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 340 gallons per acre (34 gal./1,000 sq. ft.) for anchoring.

**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 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 (34 gal./1,000 sq. ft.) for anchoring.

**MAINTENANCE**

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

For public ponds a Certified Chemist or a Maryland State Laboratory and Kentucky 31 Tall Fescue at 40 lbs./acre as a seedling requirement. Optimum seeding date for this mixture is March 1 to April 30.

**TOPSOIL SPECIFICATIONS**

Topsoil shall be a loam, sandy loam, clay loam, silty loam, silty clay loam, or silty clay. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil shall not be a mixture of contrasting textures and shall contain less than 2% by volume of sticks, stones, log colors, 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 Bermuda Grass, *Quercus*, Johnson grass, Nutgrass, Poison Ivy, Thistle, or others as specified.

Where the topsoil is either highly acidic or composed of heavy clay, ground limestone shall be spread at the rate of 4-5 tons/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 of required and apply soil amendments as specified in 250 vegetative stabilization Section 1 - Vegetative Stabilization Methods and Materials.

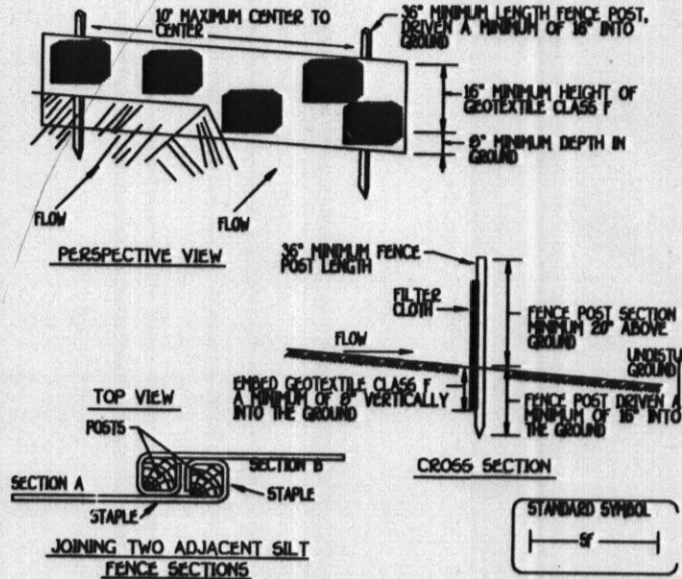
**ALTERNATIVE FOR PERMANENT SEEDING**

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:

- a) Composted sludge shall be applied 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 26.04.05.
- b) 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.
- c) 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.



Construction Specifications

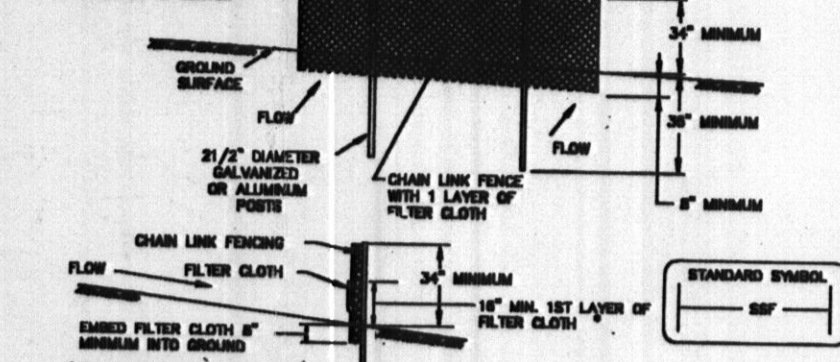
1. Fence posts shall be a minimum of 36" long driven 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut), or 1 3/4" diameter (minimum round) and shall be of sound quality hardwood. Steel posts will be standard 1" or U section weighing not less than 100 pound per linear 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 1:

Tensile Strength	50 lb./in (min.)	Test: MSH 509
Tensile Modulus	20 lb./in (min.)	Test: MSH 509
Flow Rate	0.5 gal./ft. (min.)	Test: MSH 322
Filtering Efficiency	75% (min.)	Test: MSH 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 bluffs occur or when sediment accumulation reduces 50% of the fabric height.

**SILT FENCE**  
NOT TO SCALE

**SUPER SILT FENCE**



Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 4" fence shall be used, substituting 42" fabric and 4" length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brass and brass rods, drive anchors and post caps are not required except on the ends of the fence.
3. Filter cloth shall be fastened securely to the chain link fence with the spread every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum of 6" into the ground.
5. When two sections of filter cloth abut each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and all bluffs removed when "bluffs" develop in the silt fence, or when all reaches 50% of fence height.
7. Filter cloth 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 1:

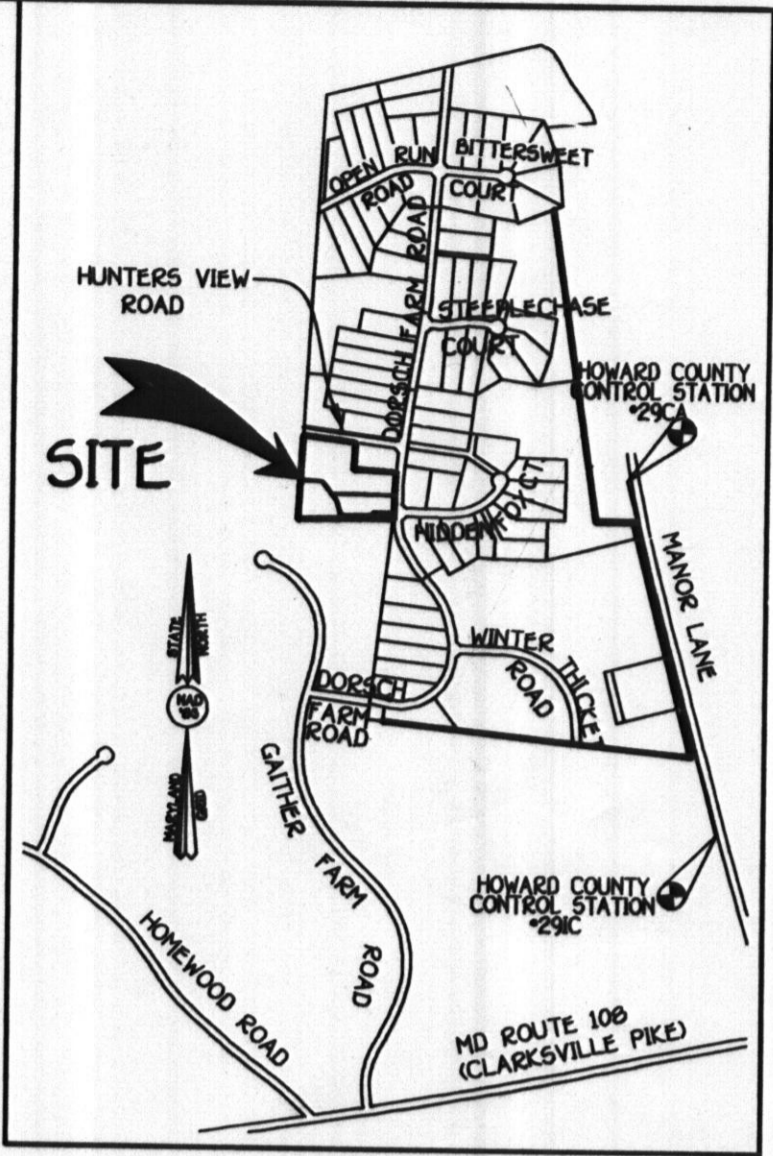
Tensile Strength	50 lb./in (min.)	Test: MSH 509
Tensile Modulus	20 lb./in (min.)	Test: MSH 509
Flow Rate	0.5 gal./ft. (min.)	Test: MSH 322
Filtering Efficiency	75% (min.)	Test: MSH 322

Design Criteria

Slope	Slope Steepness	Structure Length (minimum)	Silt Fence Length (minimum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

**LEGEND**

Symbol	Description
---	Existing Control # Interval
- - - -	Proposed Control # Interval
+	Spot Elevation
—	Silt Fence
- - -	Tree Protection
---	Setback Tree Line
LOA	Limit of Disturbance



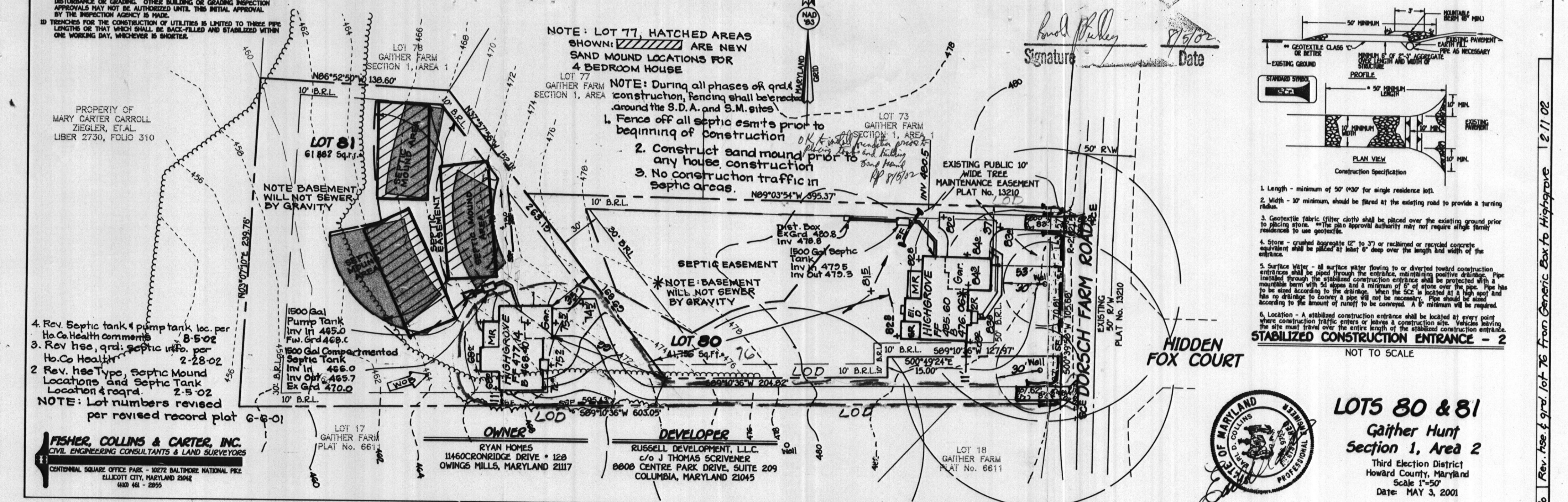
**VICINITY MAP**  
SCALE: 1" = 1200'

**GENERAL NOTES**

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
2. PROPOSED 1500 GALLON SEPTIC TANK.
3. A. FIRST FLOOR ELEVATION  
B. BASEMENT ELEVATION  
C. INVERT OF SEPTIC SYSTEM AT HOUSE  
D. INVERT IN AT SEPTIC TANK  
E. INVERT CUT AT SEPTIC TANK  
F. PROPOSED GRADE OVER SEPTIC TANK  
G. INVERT AT DISTRIBUTION BOX  
H. EXISTING GROUND OVER DISTRIBUTION BOX
4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING
6. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.
7. LOT 75 WILL HAVE A MOUND SYSTEM.

Approved Septic System Plan  
Howard County Health Department

Signature: *David P. Kelly* DATE: 8/9/02



**REVISIONS**

1. Rev. Septic tank & pump tank loc. per Ho. Co. Health comments 8-5-02
2. Rev. hse. qrd. septic info. per Ho. Co. Health 2-28-02
3. Rev. hse. Type, Septic Mound Locations and Septic Tank Location & road. 2-5-02

NOTE: Lot numbers revised per revised record plat 6-6-01

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 481 - 2995

**LOTS 80 & 81**  
Gaiter Hunt  
Section 1, Area 2  
Third Election District  
Howard County, Maryland  
Scale 1"=50'  
Date: MAY 3, 2001

G.P. 01-188

No. Rev. hse. & qrd. lot 76 from Generic Box to Highway 2/11/02

