

LAYOUT none given. INSP 3 12/17/07  
INSP 1 12/17/07 INSP 4  
INSP 2 12/19/07 INSP 5

ISSUE DATE: \_\_\_\_\_

APPROVAL DATE: 12/19/07 <sup>(K9)</sup>

# PERMIT

P 527942

A 527249 520082-A

TAX ID # 05447704

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

K & K Excavating IS PERMITTED TO INSTALL  ALTER

ADDRESS: 15882 Frederick Road, Lisbon PHONE NUMBER: 410-442-1336

SUBDIVISION: Prince Property LOT NUMBER: 2

ADDRESS: 8215 Hunterbrooke Lane PROPERTY OWNER: James Xanthos

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: \_\_\_\_\_

LINEAR FEET OF TRENCH REQUIRED: 155

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Install (2) approximately 80 ft. trenches on contour in the uppermost portion of the septic easement.
NOTES:	

PLANS APPROVED: Gabriel Creighton DATE: 10/1/07

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

NOT TO SCALE

\* See separate  
As-Built

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	4?
NUMBER OF TRENCHES		2
TOTAL LENGTH		157'
ABSORPTION AREA		471 + SW
DISTRIBUTION BOX LEVEL		Levelless
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		NO

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	1-2'
BAFFLES	Yes
BAFFLE FILTER	NO
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	—
SEPTIC TANK 2 LEVEL	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	

mayer,  
Bos.  
2 comp.  
slitted.

ROAD

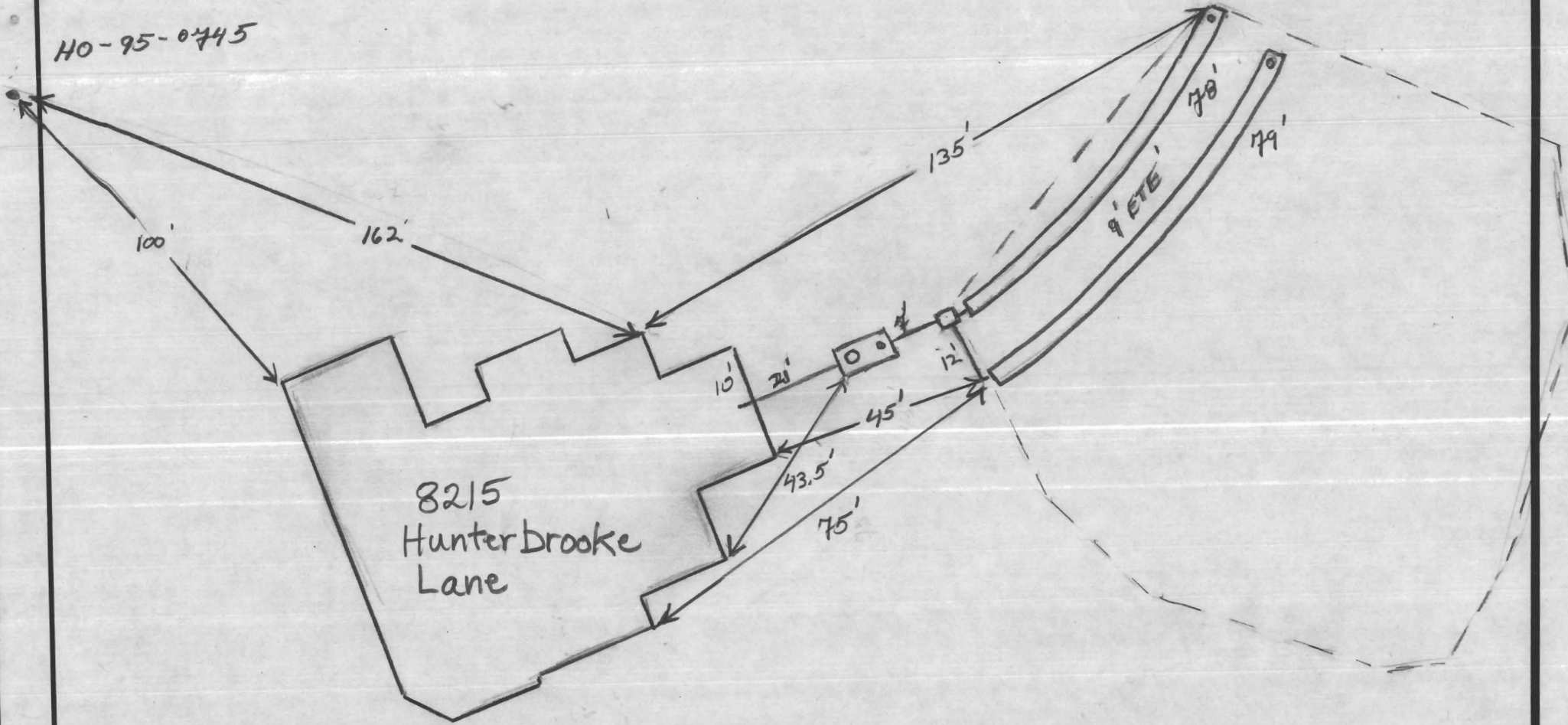
PRE-CONSTRUCTION 12/17/07 Arrived a little late contractor not there. (KW)

INSTALLATION 12/19/07 As I arrived to the site, the contractor had installed tank, D box, plumbing from house to D box, and finished top trench. After a huge argument for 1/2 hour, revised depth on top trench and its loc., told contractor to finish up w/ bottom trench and backfill, but next time to wait for layout or trenches will be dug up!! (KW) 12/19/07 Bottom trench completed. OK to cover (KW)

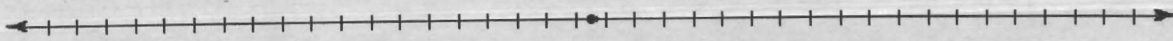
FINAL INSPECTOR Jr. Wolf DATE OF APPROVAL 12/19/07

NOT TO SCALE

HO-95-0445



8215  
Hunter Brooke  
Lane



Lot 2

ROAD



### 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, discing or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (82 lbs/1000 s.f.) and 600 lbs. / acre (15 lbs./1000 s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. of soil.

**SEEDING:** Apply a mixture of Turf Type Tall Fescue (80%) and Hard Fescue (20%) in accordance with seeding rates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding within proper seeding dates.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 wood cellulose fiber at a rate of 750 lbs./acre mixed at a ratio of 50 lbs. Of wood fiber/100 gal. of water. Synthetic liquid binders such as Terra Tex II, Acrylic DLR (Agra-Tack), DCA-70, Petrosol and other approved agents may be used at rates recommended by the manufacturers.)

Seed Mixture (Hardiness Zone 6a and 7a)	Application Rate (lbs/acre)	Seeding Dates	Depth (in.)	Fertilizer Rates (10-20-20)	Lime Rate
10 Tall Fescue (80%) Hard Fescue (20%)	120	3/15-5/15 9/15-11/15	0.5 in.	90/50/0 (100/50/0)	20/0/0 (100/0/0)

### TEMPORARY SEEDING NOTES

**SEEDBED PREPARATION:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

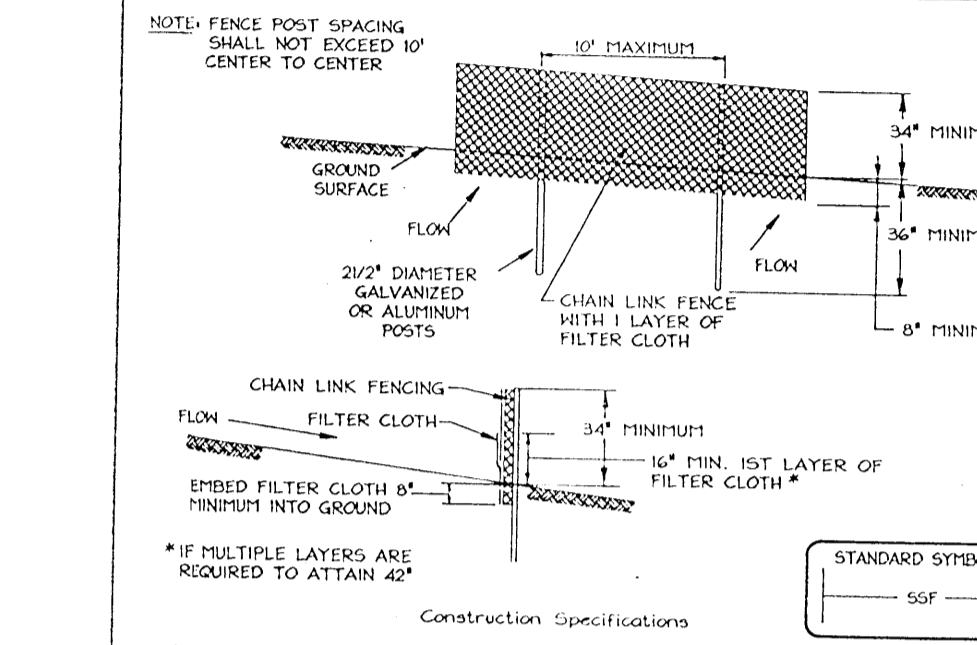
**SOIL AMENDMENTS:** In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (82 lbs/1000 s.f.) and 600 lbs. / acre (15 lbs./1000 s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. of soil.

**SEEDING:** Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Fava Millet in accordance with seeding rates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 wood cellulose fiber at a rate of 750 lbs./acre mixed at a ratio of 50 lbs. Of wood fiber/100 gal. of water. Synthetic liquid binders such as Terra Tex II, Acrylic DLR (Agra-Tack), DCA-70, Petrosol and other approved agents may be used at rates recommended by the manufacturers.)

Seed Mixture (Hardiness Zone 6a and 7a)	Application Rate (lbs/acre)	Seeding Dates	Depth (in.)	Fertilizer Rates (10-10-10)	Lime Rate
2 Barley or Rye plus Fava Millet	50 lbs. (3.5 lbs./1000sqft)	2/1-1/30 3/15-10/31	1/2 in.	600 lb/acre (15lb/1000sqft)	2 tons/acre (100lb/1000sqft)

### DETAIL 33 - SUPER SILT FENCE



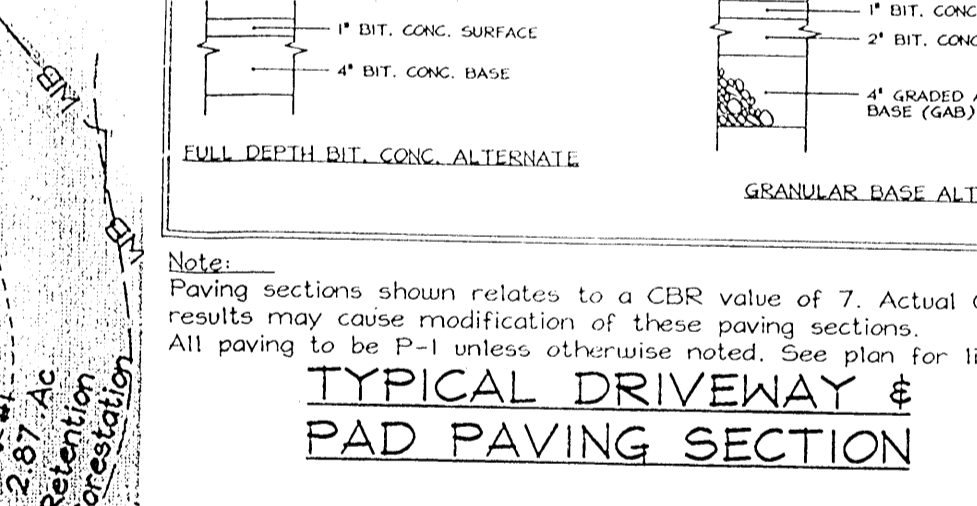
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
  - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and cross rods, drive anchors and post caps are not required except on the ends of the fence.
  - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
  - Filter cloth shall be embedded a minimum of 8" into the ground.
  - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
  - Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
  - 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 F:
- |                   |  |                |
|-------------------|--|----------------|
| Tensile Strength  | 50 lbs/ft (min.)                       | Test: MSPT 504 |
| Tensile Modulus   | 20 lbs/ft (min.)                       | Test: MSPT 504 |
| Flow Rate         | 0.3 gal/ft <sup>2</sup> /minute (max.) | Test: MSPT 322 |
| Filter Efficiency | 75% (min.)                             | Test: MSPT 322 |

### SEDIMENT CONTROL NOTES

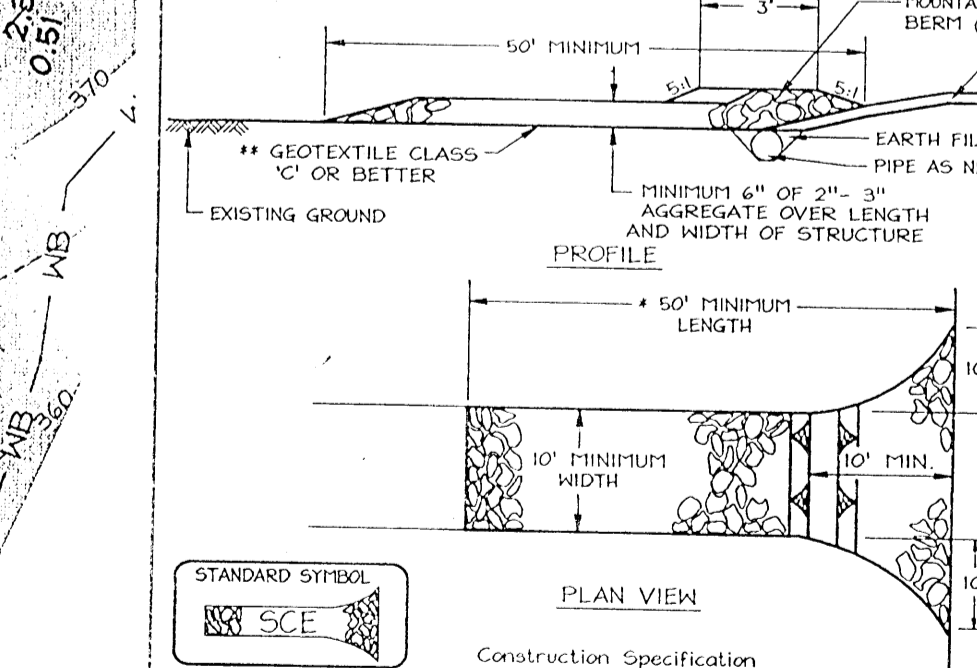
- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (400-313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater 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 7, 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, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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	3,924 Acres
Area Disturbed	1,608 Acres
Area to be reseeded or paved	0,396 Acres
Area to be vegetatively stabilizing	1,470 Acres
Total Cut	1,988 CY
Total Fill	1,908 CY
Offsite waste/borrow area location	4,600 CY
- 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 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.
- Earthwork quantities are solely for the purpose of calculating fees.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

### TYPICAL DRIVEWAY & PAD PAVING SECTION

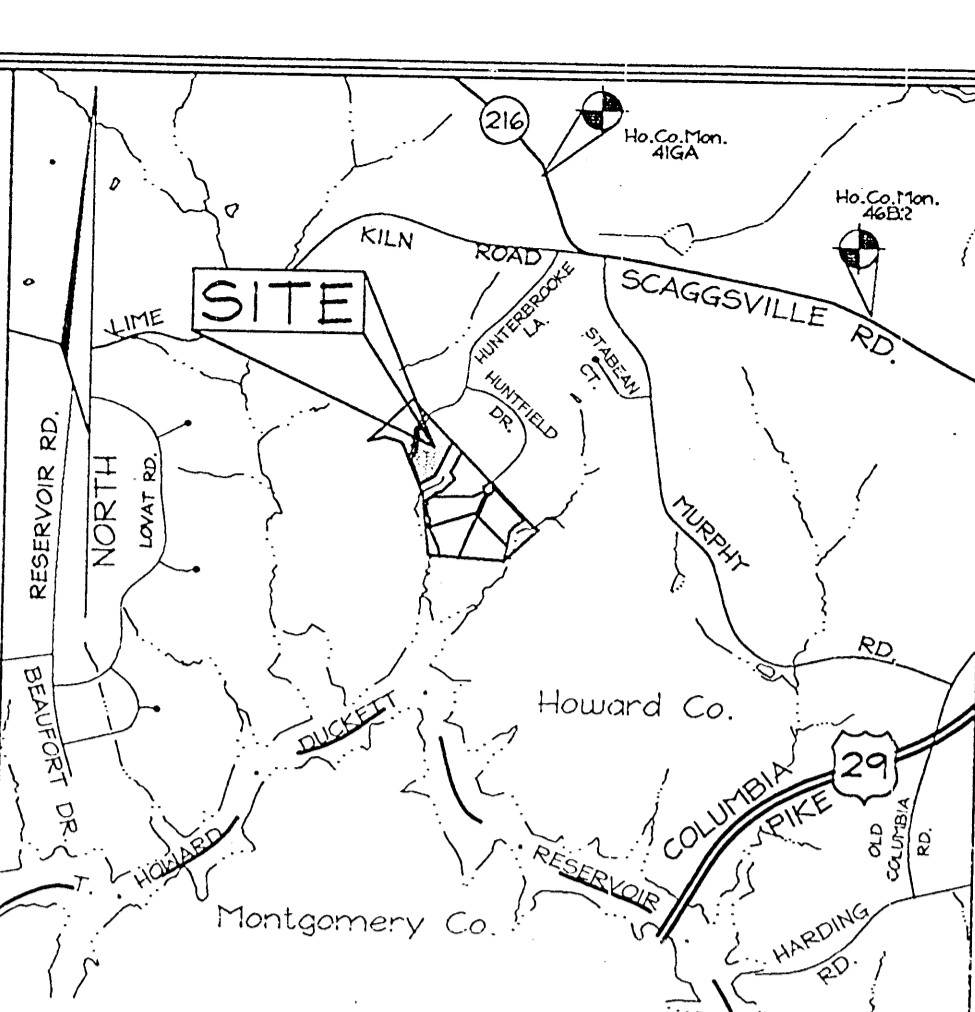
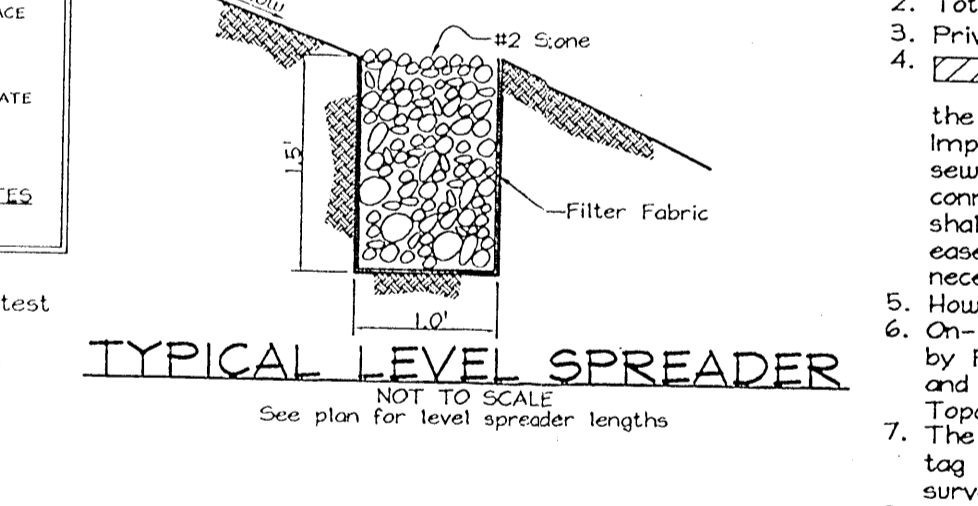


### DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 50' (+ 30' for a 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 pass through the entrance, maintaining positive drainage. Pipes installed through the stabilized construction entrance shall be protected with a mountable barrier 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 S.C.E. 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.
- 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.

### TYPICAL LEVEL SPREADER



### VICINITY MAP

SCALE: 1"=2000'  
HOWARD COUNTY, ADC MAP 18 G6

### LEGEND

- Existing Contour
- Proposed Contour
- Existing Spot Elevation
- Proposed Spot Elevation
- Direction of Flow
- Existing Trees to Remain
- 75' Rooftop Runoff Disconnects
- Existing Percolation Test (Passed)
- Existing Percolation Test (Failed)
- Proposed Percolation Test

### GENERAL NOTES

- This property is zoned RR-DEP per the 02/07/04 Comprehensive Zoning Plan and the Comp Lite Zoning Regulations Amendments effective 07/28/06.
- Total area of property = 3,924 ac ±
- Private water and sewer will be used within this site.
- This area designates a private sewage easement, of at least 10,000 SF as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Topographic Surveys with five-foot contours. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five-foot contours.
- The existing well shown on this plan (identified with the attached well tag #1048744) has been field located by C. B. Miller professional surveyor and is accurately shown.
- Spot Elevation of Septic Trench Excavation shall be placed uphill of trench.
- If necessary, at the direction of the Sediment Control Inspector, a double row of "Super" Silt Fence is to be installed.

### SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 24 hours before starting any work.
- Install Stabilized Construction Entrance.
- After receiving permission from the sediment control inspector, rough grade site and begin building construction.
- Construct driveway and finish building construction.
- Fine grade site.
- Upon stabilization of all disturbed areas and with the permission of the sediment control inspector, remove all sediment control measures and stabilize any remaining disturbed area.

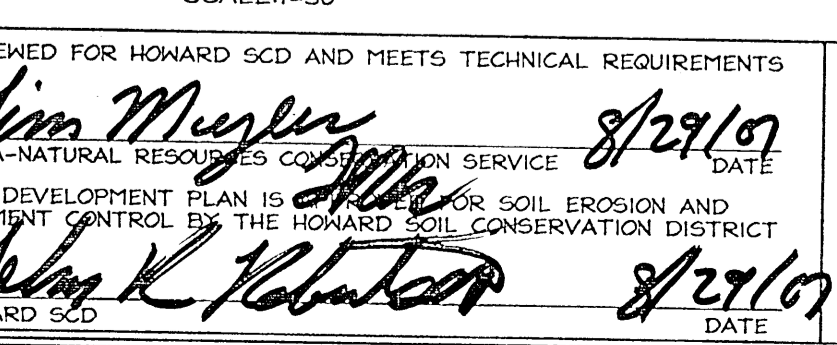
**OWNER**  
**JAMES XANTHOS**  
 10673 Glen Hannah Drive  
 Laurel, Maryland 20723-1264  
 Telephone: (301) 801-3394

**PLOT PLAN**  
**PRINCE PROPERTY**  
 LOT 2  
 8215 HUNTERBROOKE LANE, FULTON, MARYLAND 20759  
 TAX MAP 46 GRID 01  
 5TH ELECTION DISTRICT  
 PARCEL 104  
 HOWARD COUNTY, MARYLAND

**FSH Associates**  
 Engineers Planners Surveyors  
 8339 Howard Lane, Ellicott City, MD 21075  
 Tel: 410-567-5200 Fax: 410-796-1562  
 E-mail: info@fsh.com

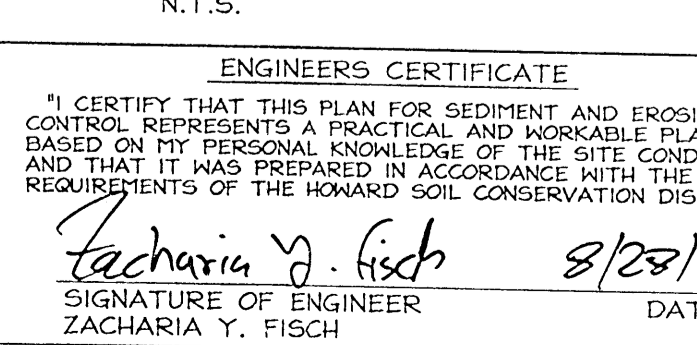
### HOUSE TEMPLATE

SCALE: 1"=30'



### SCHEMATIC HOUSE ELEVATION

N.T.S.



### ENGINEERS CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. AUTHORIZED PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Jim M. Fisher* 8/29/07  
*Zacharia Y. Fisch* 8/29/07

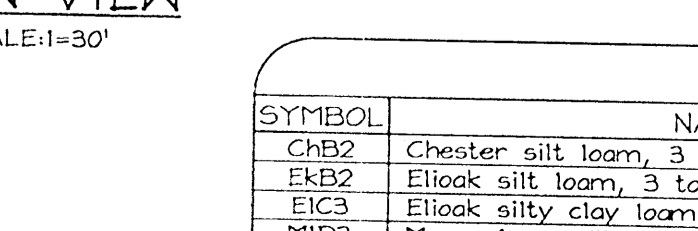
### DEVELOPER'S CERTIFICATE

"I ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL. I AM THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION 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."

*James Xanthos* 29 AUG 07

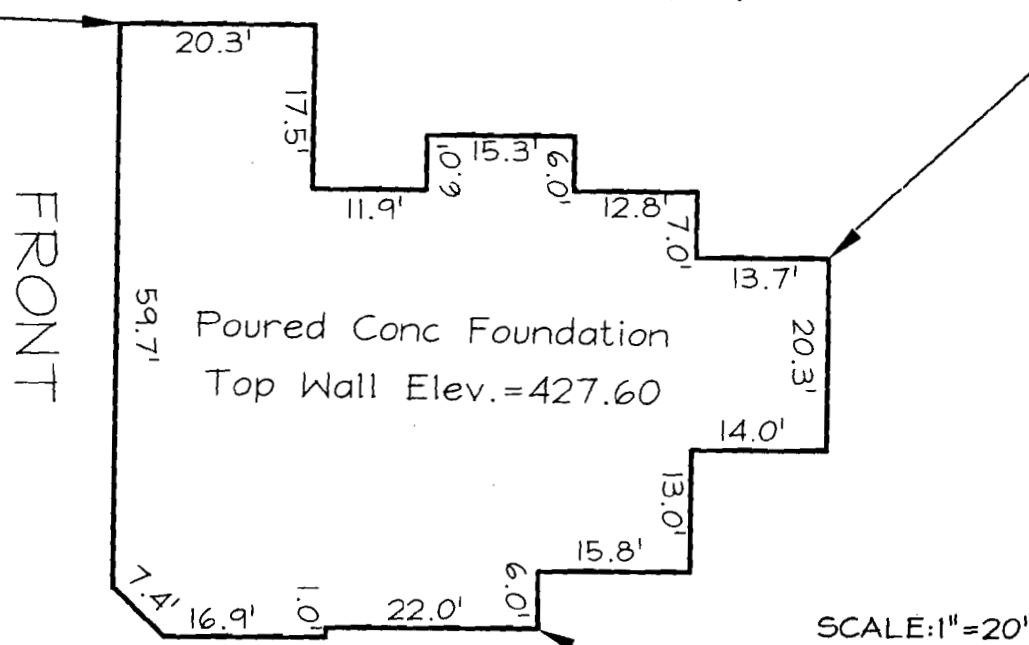
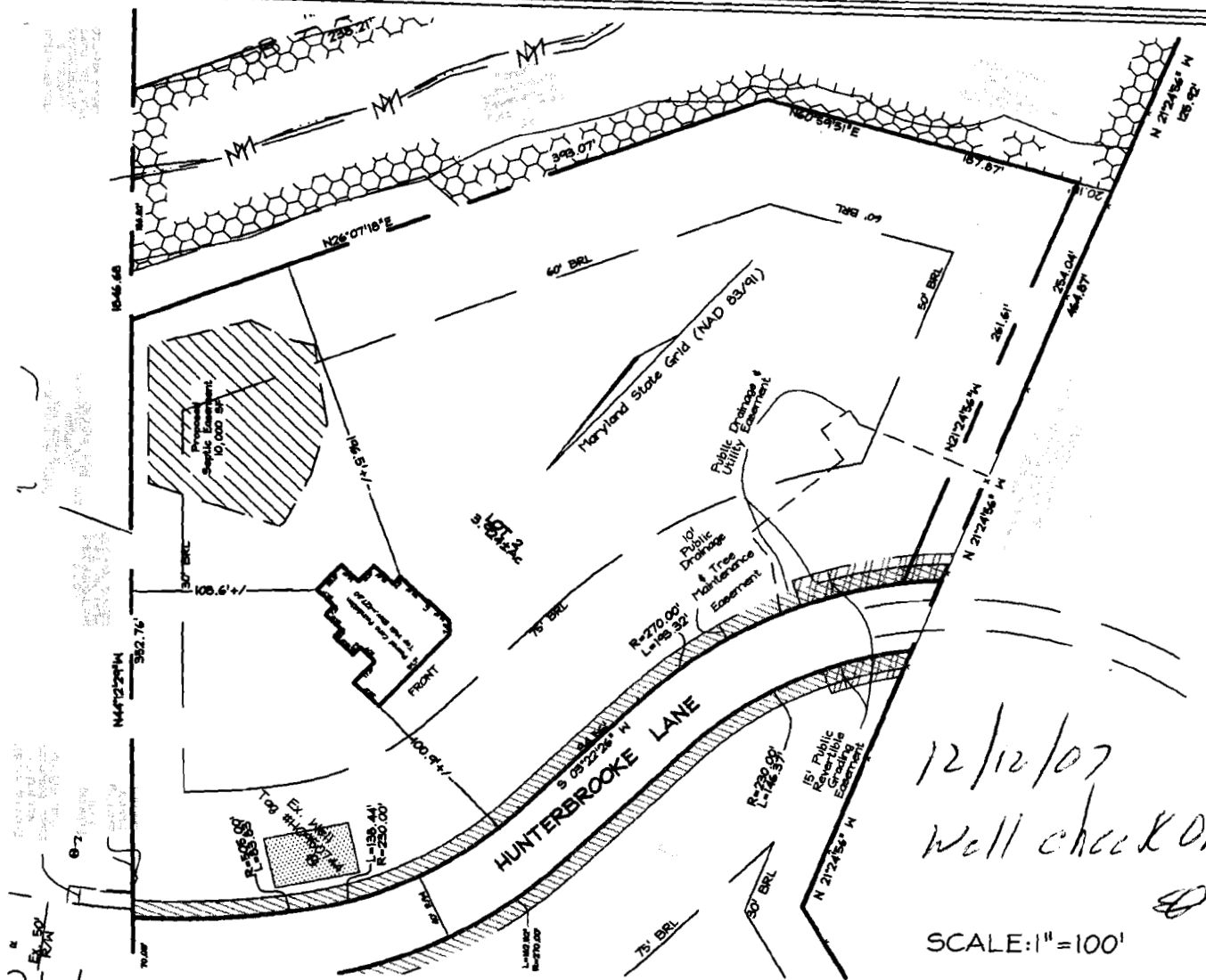
### PLAN VIEW

SCALE: 1"=30'



### SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
EKb2	Elkton silt loam, 3 to 8 percent slopes, moderately eroded	B
EIC3	Elkton silty clay loam, 8 to 15 percent slopes, severely eroded	B
MID3	Manor loam, 15 to 25 percent slopes, severely eroded	B



- F/P = FIREPLACE
- B/W = BAY WINDOW
- D/W = DRIVEWAY
- CONC = CONCRETE
- O/H = OVERHANG
- H/P = HEAT PUMP
- G/M = GAS METER
- E/M = ELECTRIC METER

DIMENSIONS FROM FOUN. WALL TO PROPERTY LINE ARE +/-0.1'  
 ADDRESS No.: 8215 HUNTERBROOKE LANE  
 TOP OF WALL ELEV. = 427.60  
 THIS LOCATION DRAWING IS OF BENEFIT TO THE 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.  
 THIS LOCATION DRAWING IS NOT TO BE RELIED UPON FOR THE ES-  
 TABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR  
 OTHER EXISTING OR FUTURE IMPROVEMENTS.  
 THIS LOCATION DRAWING 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 FINANCING OR REFINANCING.

# FSH Associates

Engineers Planners Surveyors  
 6339 Howard Lane, Elkridge, MD 21075  
 Tel: 410-567-5200 Fax: 410-796-1562  
 E-mail: FSHERI.COM

WALL CHECK	
FOUNDATION	Date: 11/09/07
FINAL	Date:
DRAWN BY:	RJS
SCALE:	AS SHOWN
W.O. No.:	3439

*MAR*  
11/13/07

LOT 2  
 PRINCE PROPERTY  
 8215 HUNTERBROOKE LANE  
 PLAT #19203  
 TAX MAP 46 GRID 1 PARCEL 104  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**FSH Associates**  
Engineers Planners Surveyors

August 14, 2007

**Mr. Gabe Creighton, Sanitarian**  
**Howard County Health Department**  
7178 Columbia Gateway Drive  
Columbia, Maryland 21046

Re: Prince Property, Lot 2  
(Xanthos)  
F-07-025/A527249

Dear Ms. Trump:

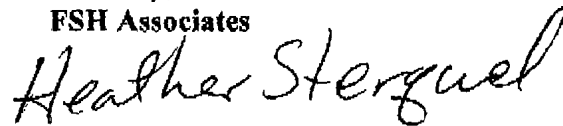
Enclosed please find a copy of the revised plans and plats and a response to your comments dated August 8, 2007.

1. The appropriate identification to the property has been added to the plan.
2. The owner/developer is Jim Xanthos as identified on the plan.
3. The plan reflects the information requested.
4. The Health Department signature block has been placed on the plans.
5. Existing and proposed property lines have been shown on the plan.
6. All existing percolation test holes have already been approved by the proper authority and identified by the original Percolation Certification Plan under PC520082.
7. The actual surveyed elevations of each test hole have been used.
8. All test holes have passed and are shown as such in the legend.
9. The legend has been adjusted to distinguish the existing test holes that have either passed or failed.
10. The SDA now reflects the changes requested from the faxed sketch and is the required 10,000 square feet.
11. A general note has been to the plan.
12. A general note has been added to state that there are no existing structures, wells, septic systems and sewage easements in use located on lot 2.
13. The well on lot 2 has already been dug with a Howard County Tag No. HO950744.
14. A Ground Water Appropriations Permit will not be applicable for this site.
15. The well has already been drilled.
16. Identification of streams, ponds, floodplains, 25% and greater slopes, soil types and soil type boundaries has been shown.
17. There has already been a house type dedicated for this lot.

18. A statement has been added to the general note to say all reasonable efforts have been made to locate existing wells, septic systems and sewage disposal easements within 100 feet of the property boundaries.
19. There are no existing or proposed wells that are located within 200 feet down-gradient of an existing or proposed septic easement of lot 2.
20. A Professional Seal and statement has been shown on the plans.
21. The following statement "Any changes to a private sewage easement shall require a Revised Percolation Certification Plan" has been added to the general notes.
22. Statement 'A' the "MDE SEWAGE EASEMENT STATEMENT FOR LOTS CREATED AFTER MARCH 1972" has been added to the general notes.
23. The minimum ownership area and lot width requirements statement has been added to the general notes.

Should you have any questions or comments regarding this matter, please do not hesitate to contact this office.

Sincerely,  
FSH Associates



Heather Sterquel

ZYF:hs  
CC: File 3486

S:\WORD Documents\FSH Associates\Job Letters\Prince Property 3486\CREIGHTON-response.doc