

LAYOUT 9/15/10 INSP 4 9/20/10
 INSP 2 9/16/10 INSP 5 _____
 INSP 3 9/17/10 INSP 6 _____

ISSUE DATE: 8/19/10 **PERMIT** P 533983

APPROVAL DATE: 9/20/10 Tax ID # 05445558 A _____

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

Van Sant, Inc. (Fogler) IS PERMITTED TO INSTALL ALTER

ADDRESS: _____ PHONE NUMBER: 301.829.0444

SUBDIVISION: Fulton Ridge LOT NUMBER: 14

ADDRESS: 12110 Fulton Ridge Drive PROPERTY OWNER: Leslie and Michael Krainak

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

PUMP CHAMBER CAPACITY (GALLONS): _____ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4 APPLICATION RATE: 0.6

SQUARE FOOTAGE OF HOUSE: Unkwn * Future Repair Keep

LINEAR FEET OF TRENCH REQUIRED: 330' Shallow *

TRENCHES:	Trenches to be 2.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 7.0 feet below grade. Effective area begins at 5.5 feet below original grade with 4.0 feet of stone below distribution pipe.
LOCATION:	Set septic tank per layout inspection. Set distribution box per layout inspection. Install 1x50' trench, 1x60' trench, and 3x75' trenches on contour at top of easement. Begin w/ 50' trench as shown on plan.
NOTES:	Do not order the septic tank until after layout inspection and Sanitarian approval. Stake septic easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet.

PLANS APPROVED: Heidi Scott DATE: 2/17/10

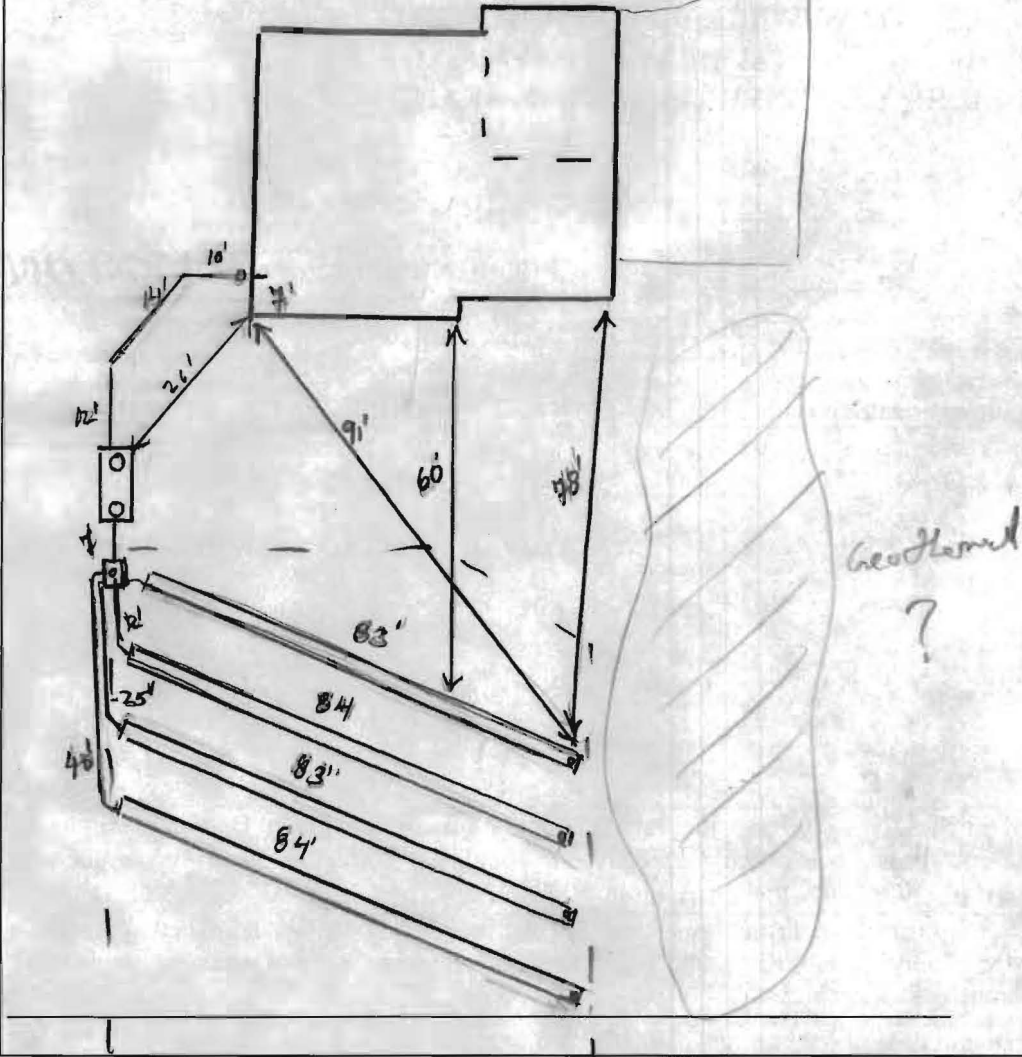
- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND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

NEITHER THE HOWARD COUNTY COUNCIL OR 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

1" = 30'

HO-95.
0548



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	3'	7'
NUMBER OF TRENCHES		4
TOTAL LENGTH		334'
ABSORPTION AREA		668 + SW
DISTRIBUTION BOX LEVEL		4 inches
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	1-2'
BAFFLES	Yes
BAFFLE FILTER	---
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	---
SLOTTED	Yes 6/8/10
PUMP/SEPTIC TANK LEVEL	N/A
MANUFACTURER	---
CAPACITY	---
SEAM LOC	---
TANK LID DEPTH	---
BAFFLES	---
BAFFLE FILTER	---
MANHOLE LOC	---
6" PORT LOC	---
WATERTIGHT TEST	---
SLOTTED	---

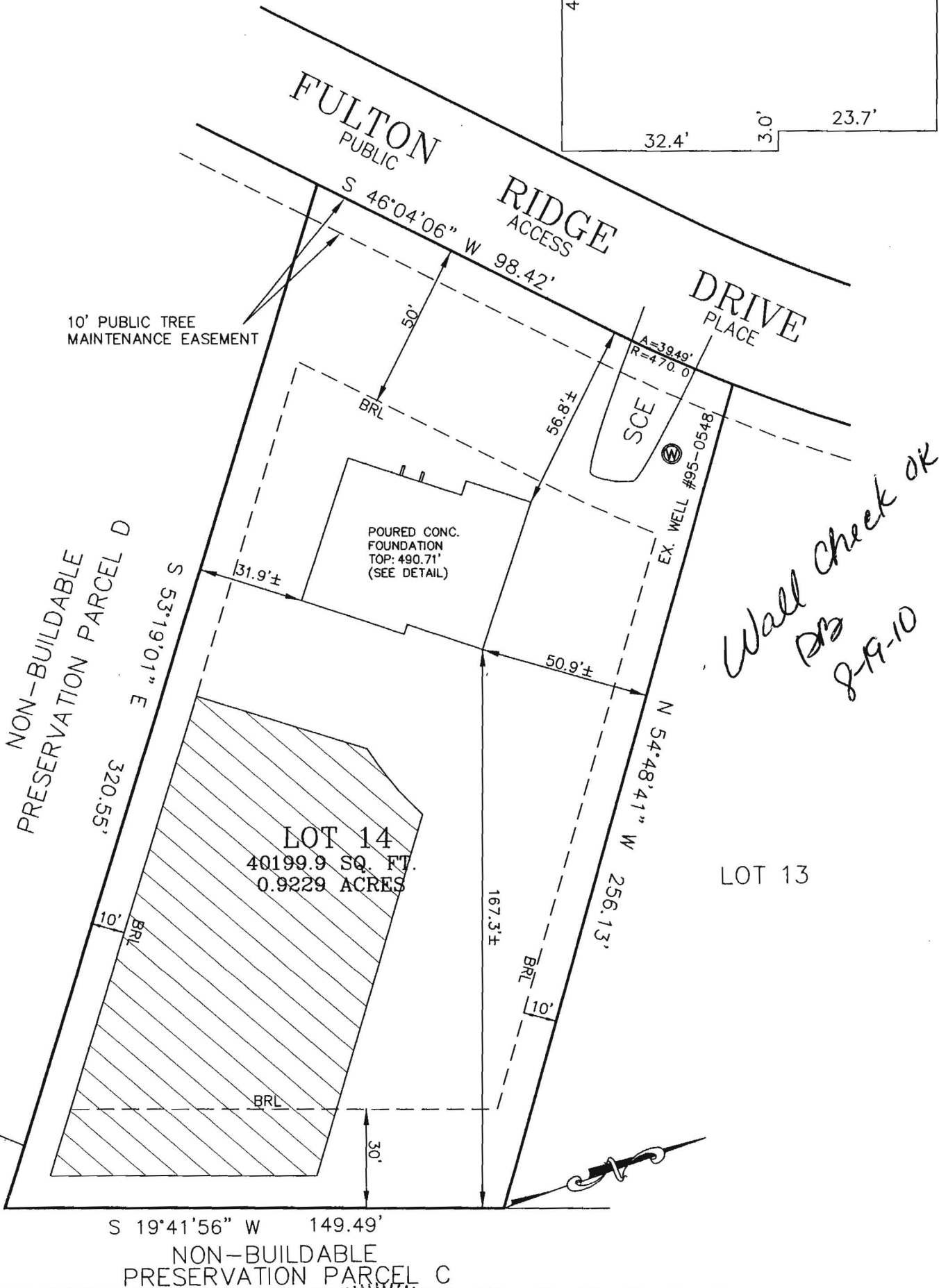
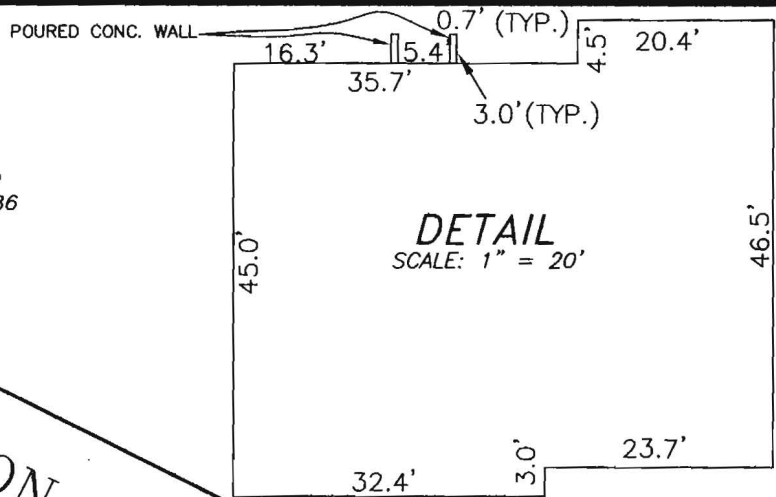
PRE-CONSTRUCTION
 9/15/10 S.T. tank 20' from house. Install 4 x 82' trenches on contour running across slope area on a slight

angle. Trenches pointed in field. Possible horizontal geotextured layer as shown @ 9/16/10 - Tank hole dug - looks good - No other INSTALLATION. Work done. Stone inspected onsite - excessive clay - told contractor need to acquire cleaner stone. Told contractor he can use the stone mix in w/ cleaner stone toward end of trenches. (M/Y) 9/17/10 S.T. set. House work made. Top trench complete. New stone from madford 9/20/10 Trenches complete. System finished. OK to backfill. (M)

FINAL INSPECTOR R. [Signature] DATE OF APPROVAL 9/20/10

NOTES:

1. ACCURACY OF BUILDING MEASUREMENTS: 0.1'
2. ACCURACY OF SETBACK DIMENSIONS: 0.1'
3. ACCURACY OF BUILDING ELEVATIONS: 0.1'
4. THE PROPERTY SHOWN HEREON LIES IN ZONE "C" AS SHOWN ON FLOOD INSURANCE RATE MAP NO: 240044 0038 B DATED: DECEMBER 4, 1986



THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER FINANCING OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS. IT DOES NOT PROVIDE ACCURATE IDENTIFICATION OF PROPERTY LINES; SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR TITLE TRANSFER, FINANCING, OR REFINANCING. IT WAS PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH SEC. 16.13.06.06 OF THE ANNOTATED CODE OF MD.

Shanabarger & Lane
SHANABARGER & LANE
 8726 TOWN AND COUNTRY BLVD., SUITE 201
 ELLICOTT CITY, MD. 21043
 (410)461-9563 FAX: (410)461-9693

Professional Seal: No. 10849, State of Maryland, Professional Land Surveyor

FOUNDATION LOCATION DRAWING
 KRAINAK PROPERTY
 12110 FULTON RIDGE DR.
 FULTON, MD 20759
 FULTON RIDGE, LOT 14 PLAT #18906
 DEED REFERENCE: 11915/243
 TAX MAP 41 GRID 13 PARCEL 506
 5TH ELECTION DISTRICT HOWARD COUNTY, MD
 SCALE: 1"=40' DATE: APRIL 16, 2010
 DATE OF LATEST FIELD WORK: 4/14/10

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

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

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
 1. Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.).
 2. Acceptable -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

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

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 345 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

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

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

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

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

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

Mulching: Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 345 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

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

STANDARD 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 (313-1855).

2. 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 thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization structures shall be completed within: a) 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.

4. 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.

5. 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. 51), 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.

6. 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.

7. Site Analysis:
 Total Area of Site 40199 SQ. FT.
 Area Disturbed 17123 SQ. FT.
 Area to be roofed or paved 4281 SQ. FT.
 Area to be vegetatively stabilized 12342 SQ. FT.
 Total Cut 351 Cu. Yds.
 Total Fill 405 Cu. Yds.
 Offsite waste/borrow area location: NONE

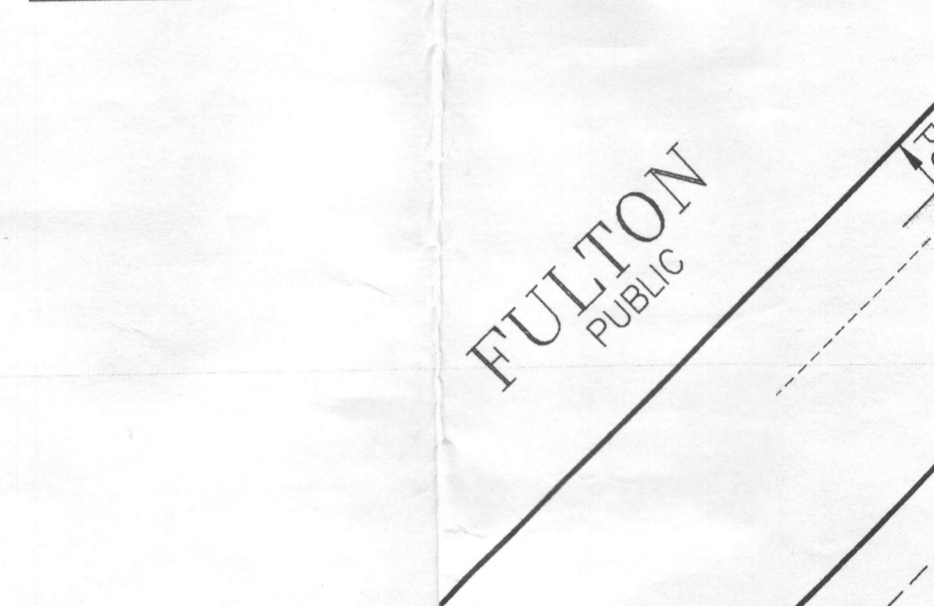
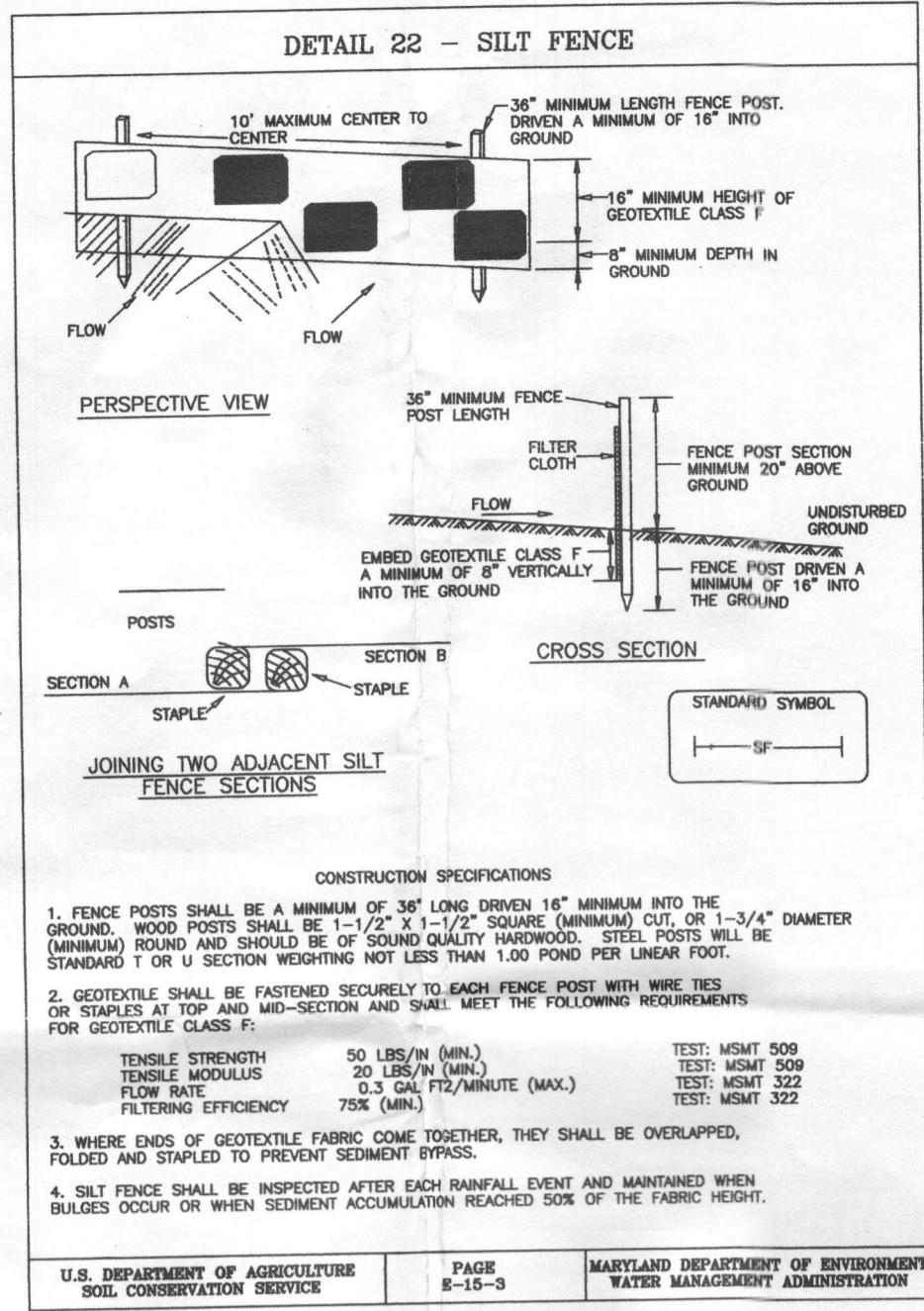
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

10. 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.

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.

12. The Total Amount of Silt Fence = 368 LF
 The Total Amount of Super Silt Fence = 0 LF



SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT. (3 weeks)
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE (2 days)
- EXCAVATE FOR FOUNDATION, ROUGH GRADE AND TEMPORARILY STABILIZE. (3 weeks)
- CONSTRUCT HOUSE, UTILITY CONNECTIONS, SIDEWALK, AND DRIVEWAY. (20 weeks)
- FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STANDARDS & SPECIFICATIONS. (1 week)
- UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE. (1 week)

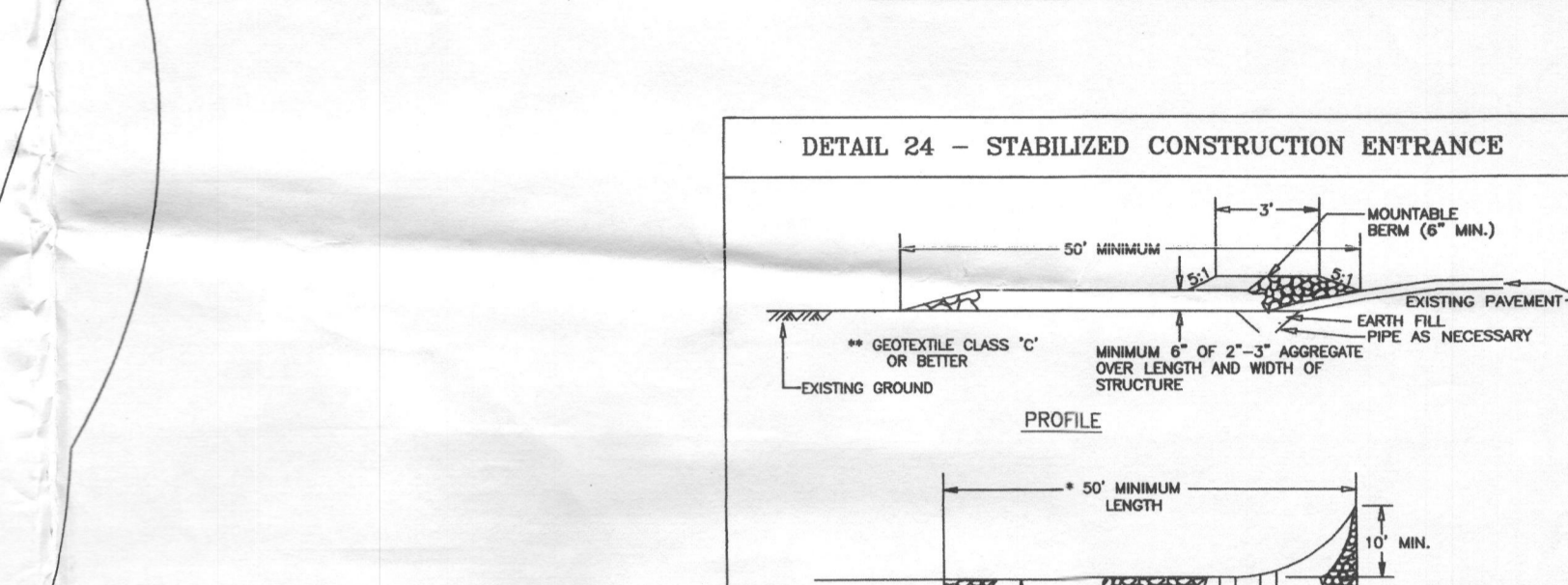
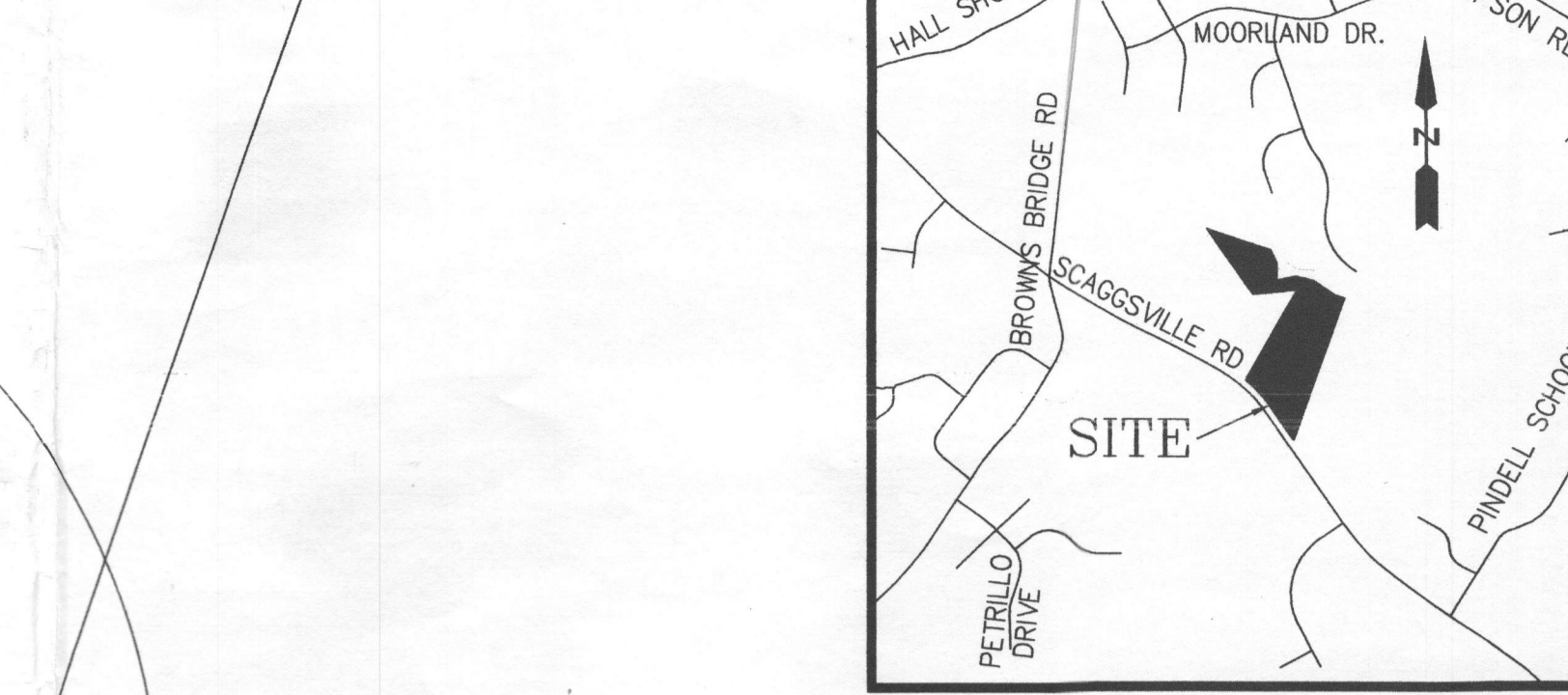
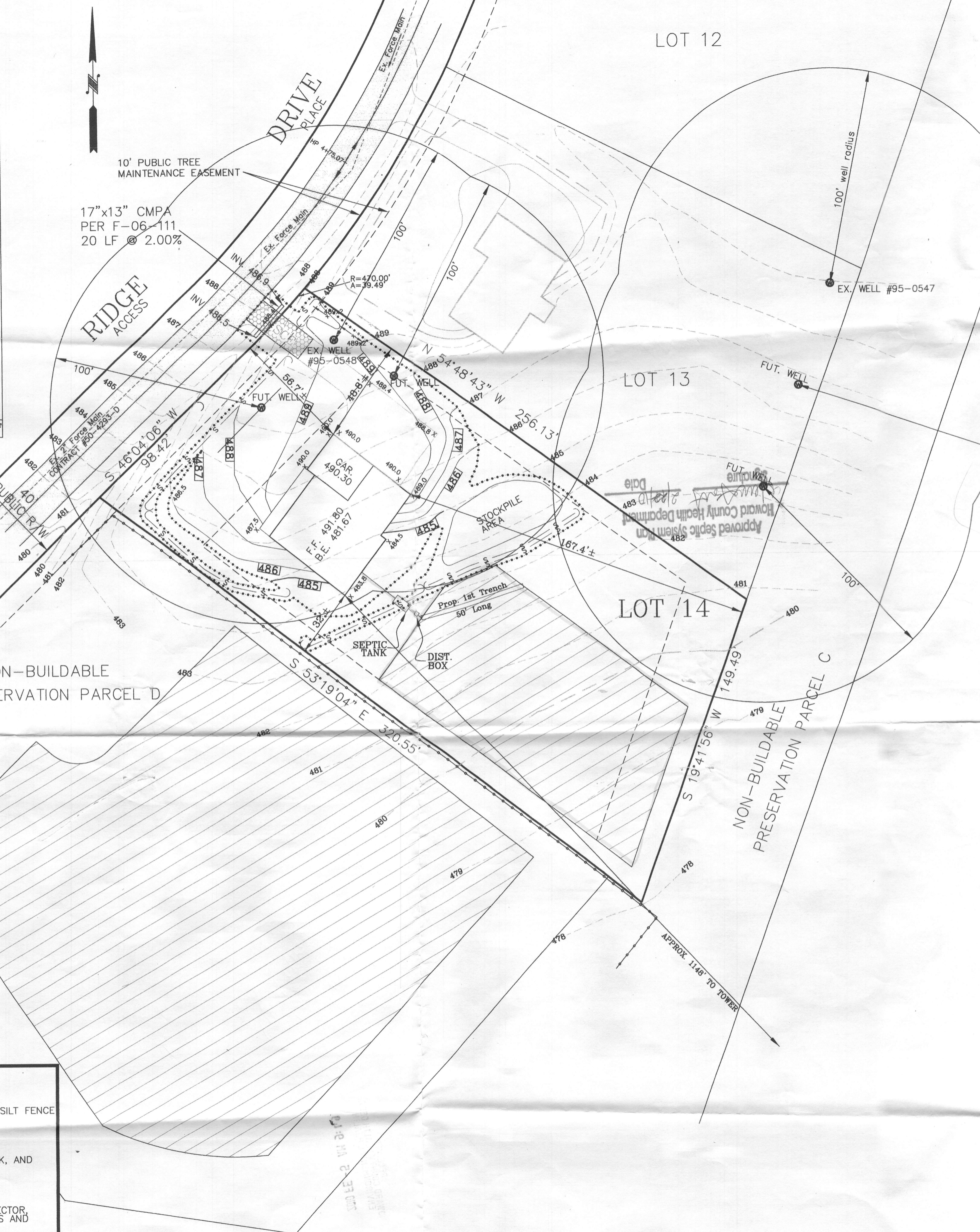
DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION.

John R. Robertson 2/1/10
 NAME AND TITLE DATE

CONSULTANT'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION.

G. Scott Shanaberger 1/22/10
 NAME AND TITLE DATE

SHANABERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 201
 ELLICOTT CITY, MD. 21043
 PHONE: 410-461-9563
 FAX: 410-461-9693



NOTES:

- TOPOGRAPHY SHOWN HEREON WAS FIELD-RUN BY SHANABERGER & LANE IN DECEMBER, 2009.
- PRIVATE SEWAGE EASEMENT.
- THE EXISTING WELL SHOWN ON THIS PLAN WAS FIELD-LOCATED IN DECEMBER, 2009.
- THERE ARE NO STEEP SLOPES OF 25% OR GREATER ON THIS LOT.
- BEARINGS AND DISTANCES SHOWN HEREON ARE FROM PLAT #18906.
- LEGEND:
 DESIGNATES LIMIT OF DISTURBANCE
 - s s s - DESIGNATES PROPOSED SILT FENCE
 485 - - - DESIGNATES EXISTING CONTOUR
 488x3 - - - DESIGNATES PROPOSED CONTOUR
 489x3 - - - DESIGNATES PROPOSED SPOT ELEVATION
 - - - - - DESIGNATES BUILDING RESTRICTION LINE

SEPTIC SYSTEM DATA

HOUSE INV. AT HOUSE	479.67
SEPTIC TANK EX. GRADE	483.2
FIN. GRADE	483.2
INV. IN	479.27
INV. OUT	478.97
DISTRIBUTION BOX EX. GRADE	482.8
FIN. GRADE	482.8
INV. IN	478.90
INV. OUT	478.60

TRENCH INVERTS, NUMBER, & LENGTH TO BE DETERMINED BY BUREAU OF ENVIRONMENTAL HEALTH
 GRAVITY SEWER SERVICE IS AVAILABLE TO BASEMENT LEVEL.

GP-10-47
 GRADING, SEDIMENT & EROSION CONTROL PLAN
 LOT 14 FULTON RIDGE
 SHEET 1 OF 1
 PLAT #18906 ZONING: RR-DEO
 TAX MAP 41 GRID 13 PARCEL 2
 5TH ELECTION DIST. HOWARD COUNTY, MD.
 SCALE: 1"=30' DECEMBER 19, 2009
 REV. DECEMBER 21, 2009, JANUARY 28, 2010

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION.

John R. Robertson 2/1/10
 NAME AND TITLE DATE

DEVELOPER'S CERTIFICATE
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G. Scott Shanaberger 1/22/10
 NAME AND TITLE DATE

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 ELLICOTT CITY, MD. 21043
 PHONE: 410-461-9563
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DEVELOPER
 VIKING DEVELOPMENT
 816 WINDRIVER DR.
 SYKESVILLE, MD 21784
 (410) 977-2188