

LAYOUT 1/8/10 *KW* INSP 4 1/13/10 *KW*  
 INSP 2 1/11/10 *RB* INSP 5 \_\_\_\_\_  
 INSP 3 1/12/10 *KW* INSP 6 \_\_\_\_\_

ISSUE DATE: 9/27/09

# PERMIT

P 531904

APPROVAL DATE: 3/5/2010

A 514619 - 14

Tax ID # 03-342530

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

*In Pat Trac*

Trinity Quality Homes IS PERMITTED TO INSTALL  ALTER

ADDRESS: 3675 Park Ave. #301, Ellicott City MD PHONE NUMBER: 410-750-9002

SUBDIVISION: Preserve at Waverly Glen LOT NUMBER: 14

ADDRESS: 1857 Mt. Denali Drive PROPERTY OWNER: Trinity Quality Homes

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

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 5 APPLICATION RATE: 1.2

SQUARE FOOTAGE OF HOUSE: Unkn

LINEAR FEET OF TRENCH REQUIRED: 180

TRENCHES:	Trenches to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below grade. Effective area begins at 4.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	<ol style="list-style-type: none"> <li>1. Set septic tank per layout inspection.</li> <li>2. Set distribution box at the highest point in the center at the top of the easement per layout inspection.</li> <li>3. Install 180 feet of trench on contour (3) three 60' trenches per layout inspection.</li> </ol>
NOTES:	<ol style="list-style-type: none"> <li>1. Stake septic easement corners.</li> <li>2. Call for layout inspection.</li> <li>3. Mark utilities</li> <li>4. Gravel tickets must be available for Environmental Sanitarians.</li> <li>5. Stone must meet Howard County specs. Subject to approval.</li> </ol>

PLANS APPROVED: Dana Bernard DATE: 9/02/09

- 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

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		187'
ABSORPTION AREA		561' x SW
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		no (45°)
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	3.5'
BAFFLES	Yes
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	—
SLOTTED	Yes
DATE ON LID	? (covered)
<b>PUMP</b> SEPTIC TANK LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	Front
BAFFLE FILTER	—
MANHOLE LOC	Rear
6" PORT LOC	None
WATERTIGHT TEST	—
SLOTTED	no
DATE ON LID	? covered

\* See Seperate Sheet  
for As-Built

ROAD NAME

PRE-CONSTRUCTION:

11/8/10 Initial layout for trenches given. Told contractor not to install trenches until given the OK from Health Dept. Sewer-out not shown per approved BP plan. Tried to position tanks outside garage area keeping 20' from dwelling. (KB) 11/11/2010 No one on site. Tanks covered with frozen dirt. (BB)

INSTALLATION: 1/12/09 Force main installed. Top 2 trenches running towards dwelling installed. OK to cover. Need last trench (KB)  
1/13/09 last trench completed. Everything looks good. OK to cover all works. Must maintain grades over tanks as shown. Need p/A test for final approval of system (KB)  
3/5/2010 Pump and alarm working. (BB)

FINAL INSPECTOR

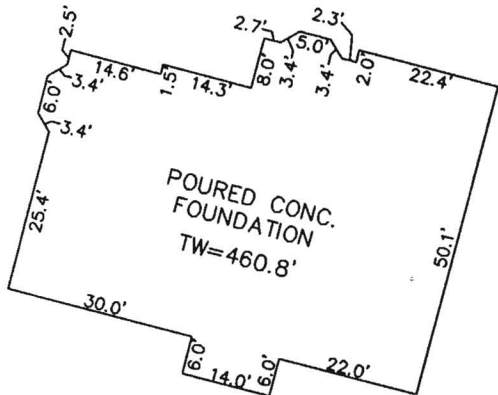
B. Babur

DATE OF APPROVAL

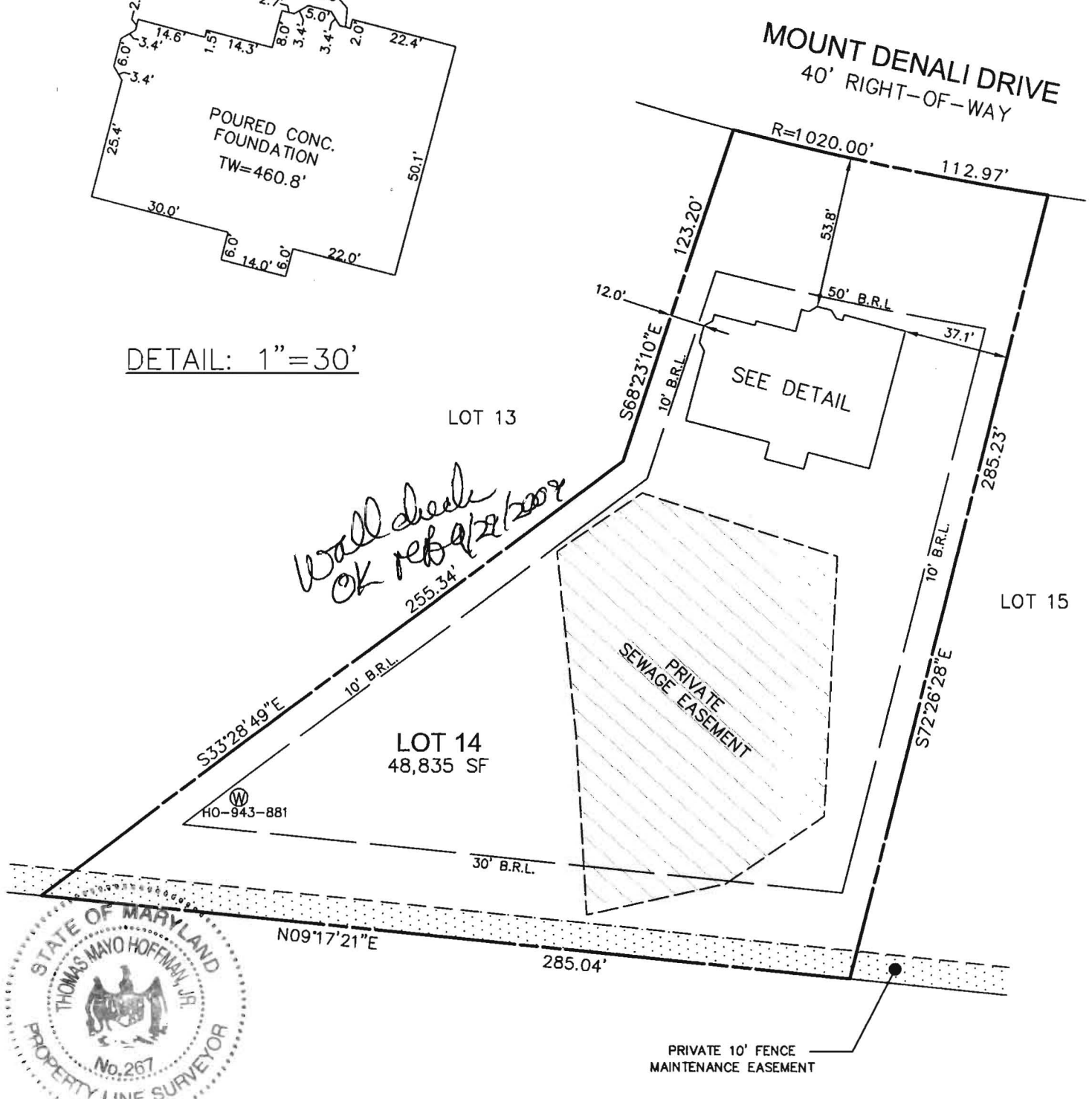
3/5/2010



MARYLAND STATE GRID MERIDIAN (NAD83/91)



DETAIL: 1"=30'



*Wall check OK re BQ 12/2009*



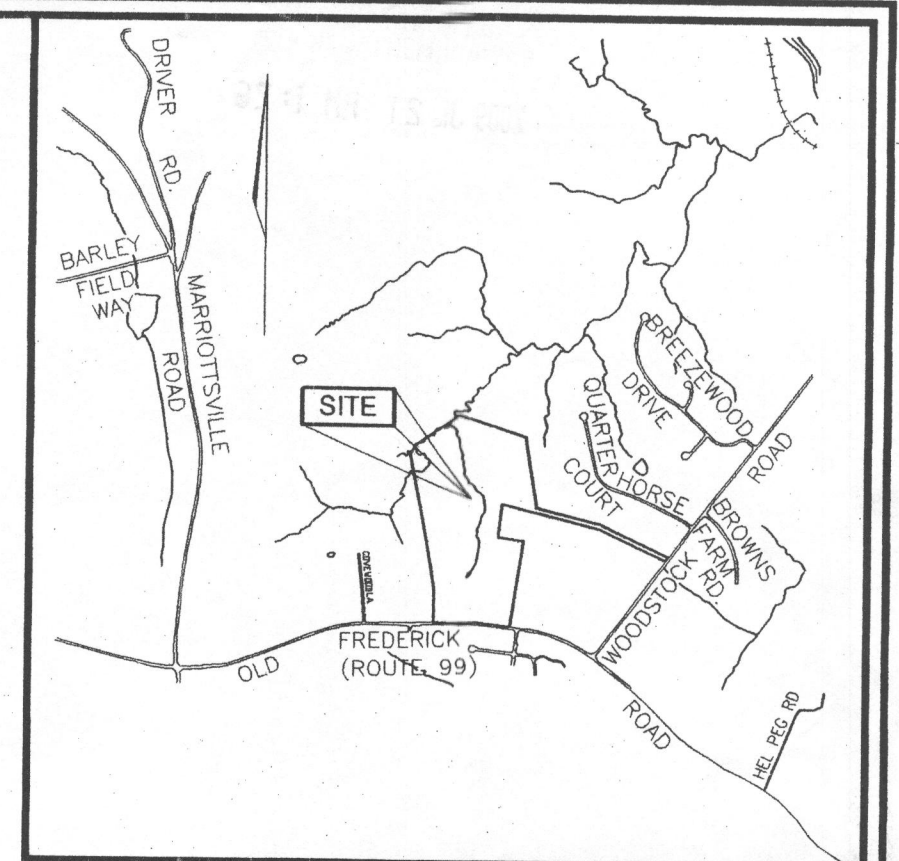
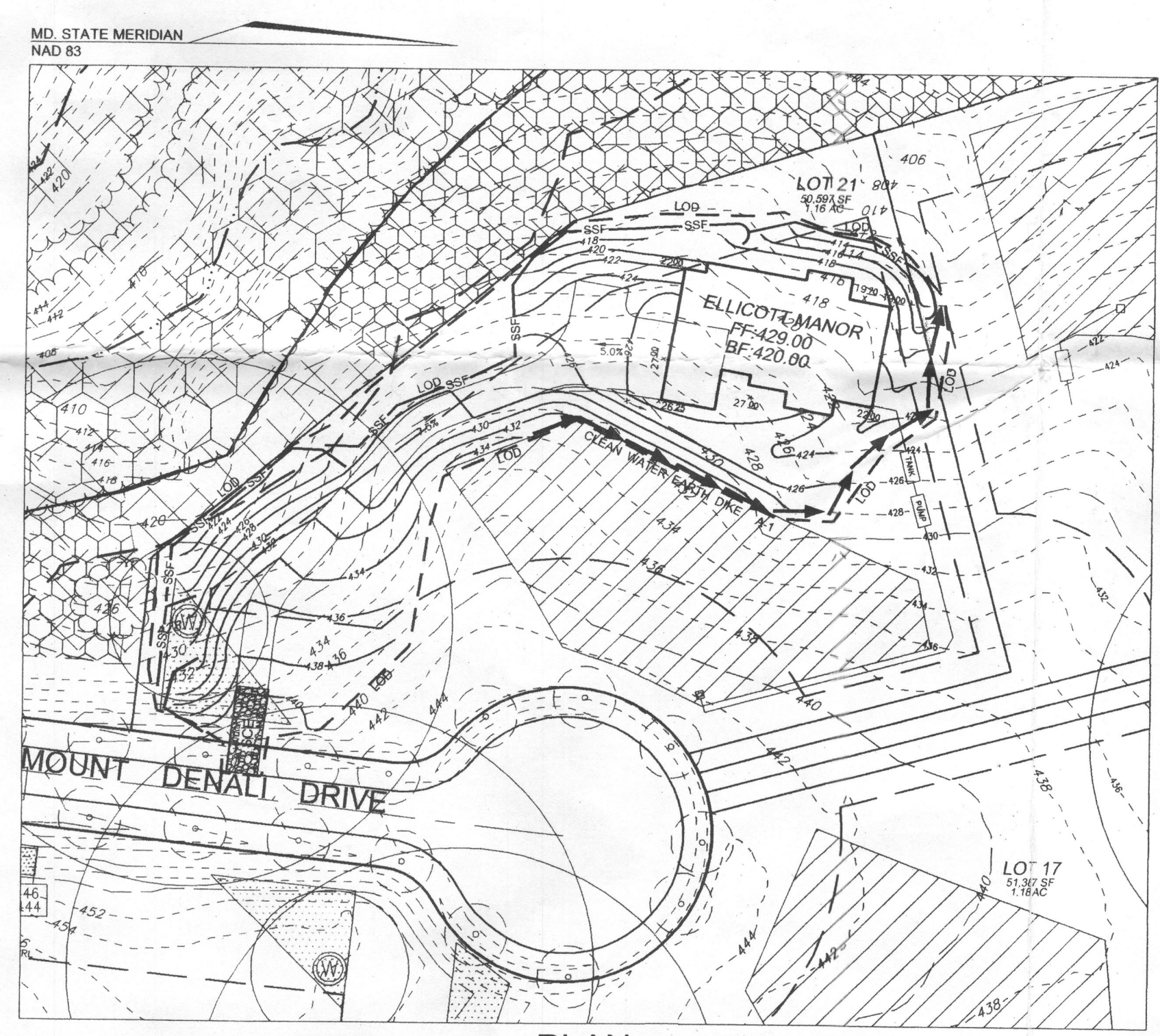
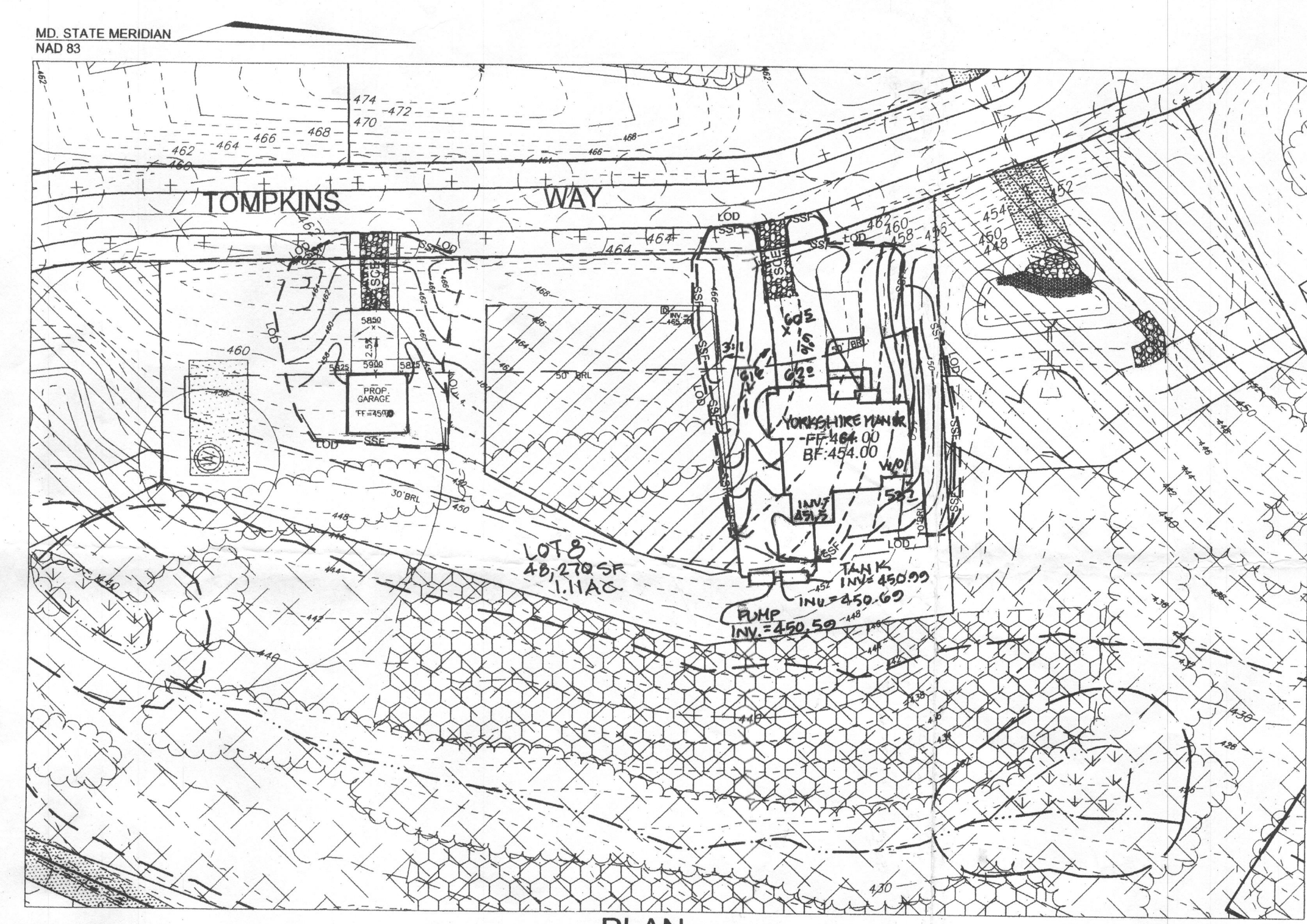
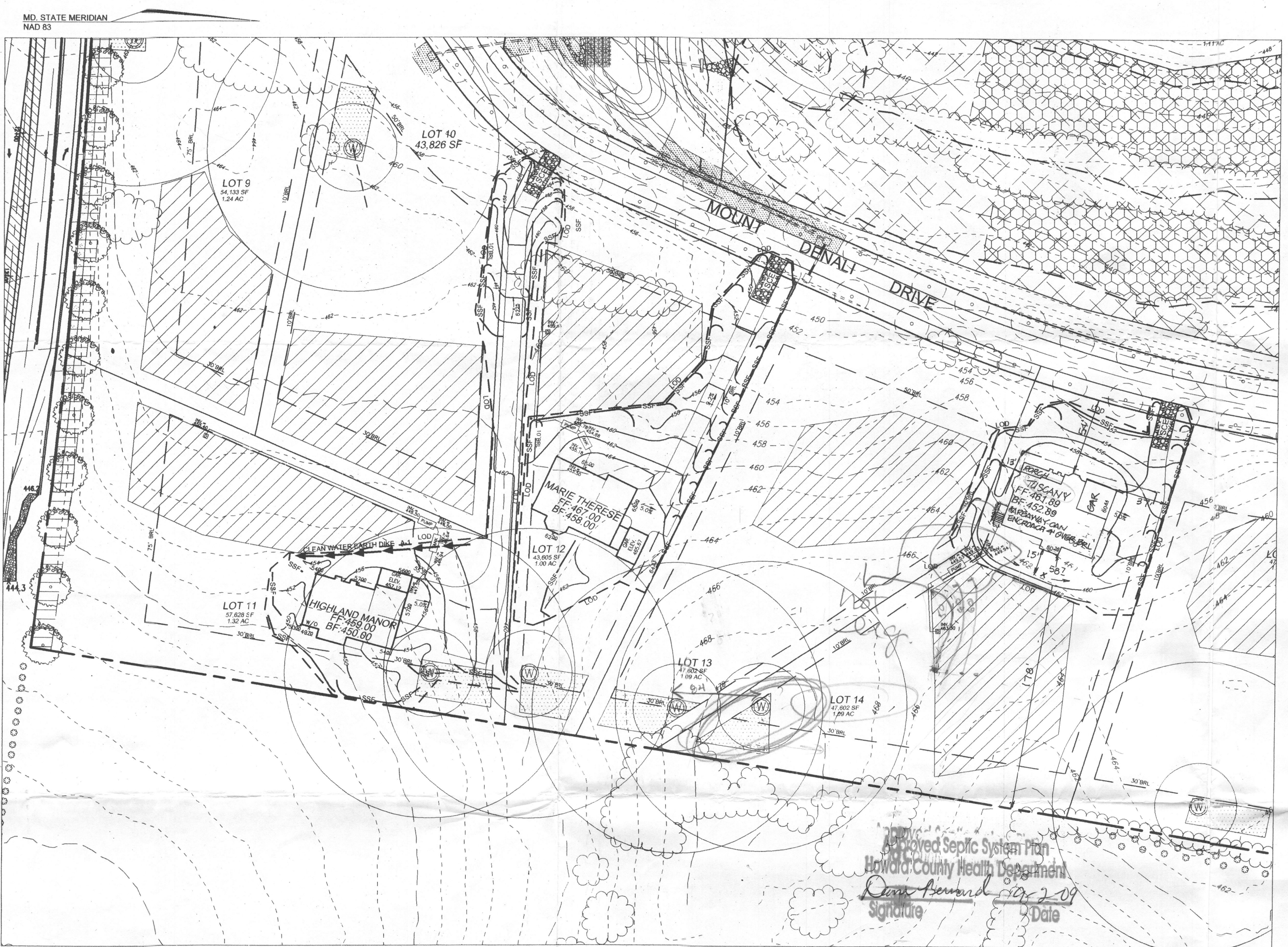
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

*Thomas M. Hoffman Jr.* 9.28.09  
 THOMAS M. HOFFMAN JR., PROPERTY LINE SURVEYOR #267 DATE

B.P.# B09001798  
 1857 MOUNT DENALI DRIVE

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

SCALE 1"=50'	DATE 09/24/09	ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS - SURVEYORS - PLANNERS 8407 MAIN STREET ELLCOTT CITY, MARYLAND 21043 TEL:410-461-7666 FAX:410-461-8961	WALL CHECK DRAWING LOT 14 THE PRESERVE AT WAVERLY GLEN PLAT No. 17061 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN BY A.M.S.	CHECKED BY T.M.H.		
PLAT NUMBER 17059-17069	JOB NUMBER 00-139		



LEGEND

- 202- EXISTING 2 FT CONTOUR
- 200- EXISTING 10 FT CONTOUR
- LOD- LIMIT OF DISTURBANCE
- SSF- SUPER SILT FENCE
- T- EXISTING TREELINE

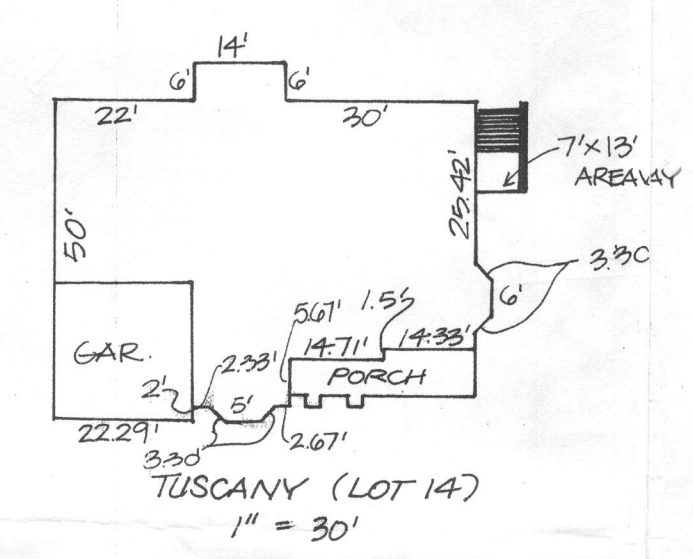
NOTE: NO STOCKPILING WILL BE PERMITTED ON SITE.

PLAN  
SCALE: 1"=50'

Approved Septic System Plan  
Howard County Health Department  
Date: 9/20/09

THE EXISTING WELL SHOWN ON LOT 14 TAG NO. HD-94-3882 HAS BEEN FIELD LOCATED BY ROBERT H. VOGEL ENGINEERING, INC.

BUILDING OF LOT 14 FLOOR AREAS:  
BASEMENT FLOOR AREA: 2200  
FIRST FLOOR AREA: 2289  
SECOND FLOOR AREA: 2525



NOTE: SWM FOR THESE LOTS (WOV Rev + CPV) IS PROVIDED BY 3 EXISTING FACILITIES AND CREDITS APPROVED UNDER F-03-103. NO ADDITIONAL SWM REQUIRED.

FOR GRADING PERMIT REFERENCE GP: \_\_\_\_\_

NO.	REVISION	DATE
1	REVISE SEPTIC SYSTEM LOT 8	3/20/09

GRADING AND SEDIMENT EROSION CONTROL PLAN  
THE PRESERVE AT WAVERLY GLEN  
BUILDING PERMIT # \_\_\_\_\_  
LOTS 8, 11, 12, 14, and 21

REF: S-02-03, P-03-02, F-99-25, F-86-13, F-03-193

TAX MAP: 10 BLOCK: 23 PARCELS 304 & 102  
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET ELLICOTT CITY, MD 21043  
TEL: 410.461.7666 FAX: 410.461.8961

OWNER / DEVELOPER  
THE PRESERVE AT WAVERLY GLEN, LLC  
3675 PARK AVENUE, SUITE 301  
ELLICOTT CITY, MARYLAND 21043  
(410) 480-0023

DESIGN BY: RN  
DRAWN BY: RN  
CHECKED BY: RHV  
DATE: SEPTEMBER 2005  
SCALE: 1"=50'  
W.O. NO.: 05-01.00

1 SHEET OF 2

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
FOR NATURAL RESOURCES CONSERVATION SERVICE  
DATE: 9/30/05

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
DATE: 9-30-05

ENGINEER'S 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.

ROBERT H. VOGEL, PE #16193  
DATE: 9/25/05

DEVELOPER'S CERTIFICATE  
I, WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL 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.

MICHAEL L. PFAU  
DATE: 9/22/05