

LAYOUT 7/25/05 INSP 4 _____
INSP 2 7/26/05 INSP 5 _____
INSP 3 11/17/05 INSP 6 _____

ISSUE DATE: 7/20/05

APPROVAL DATE: 7/14/06

PERMIT

INDEXED

TAX ID# 04-323114

P 522972

A 516979

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 PHONE NUMBER: 410-442-1336

SUBDIVISION: _____ LOT NUMBER: _____

ADDRESS: 2185 Daisy Road PROPERTY OWNER: Selfridge Builders, Inc.

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

PUMP CHAMBER CAPACITY (GALLONS): 2000 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 6

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 210

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 7.0 feet below original grade. Effective area begins at 3.5 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place distribution box at highest area in the middle of SDA and run (4) 55' length trenches 12' CTC
NOTES:	SDA must be staked prior to installation. ENSURE 100' DISTANCE TO DRILLED WELL UPSLOPE OF SDA

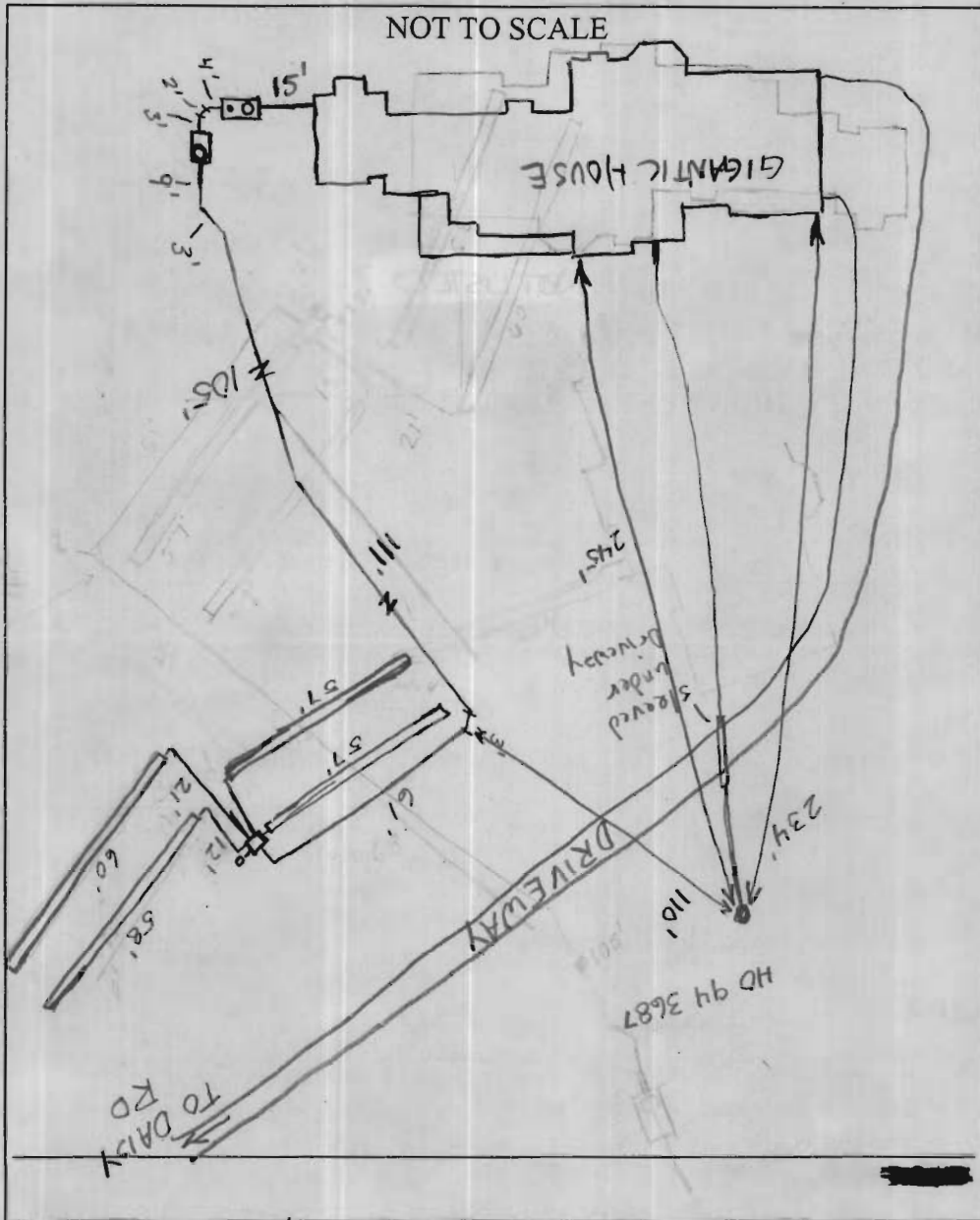
PLANS APPROVED: PY DATE: 5/17/05

- 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 BUILDING PERMIT SIGNED AND RETURNED

10/28/05 B 00156666 1000 gal u.g. LP tank

4516979



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	7
NUMBER OF TRENCHES		4
TOTAL LENGTH		232'
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL		<input checked="" type="checkbox"/>
DISTRIBUTION BOX BAFFLE		Block
DISTRIBUTION BOX PORT		yes

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	6"-2 1/2'
BAFFLES	Yes 4
BAFFLE FILTER	No
MANHOLE LOC	Inlet
6" PORT LOC	Outlet
WATERTIGHT TEST	N/A
SEPTIC TANK 2 LEVEL	Yes
Dual Pump	
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	Inlet
BAFFLE FILTER	No
MANHOLE LOC	Outlet
6" PORT LOC	N/A
WATERTIGHT TEST	N/A

PRE-CONSTRUCTION ^{7/25/05} Install trenches on contour. Pump system. Tanks to be installed later. (GAC)

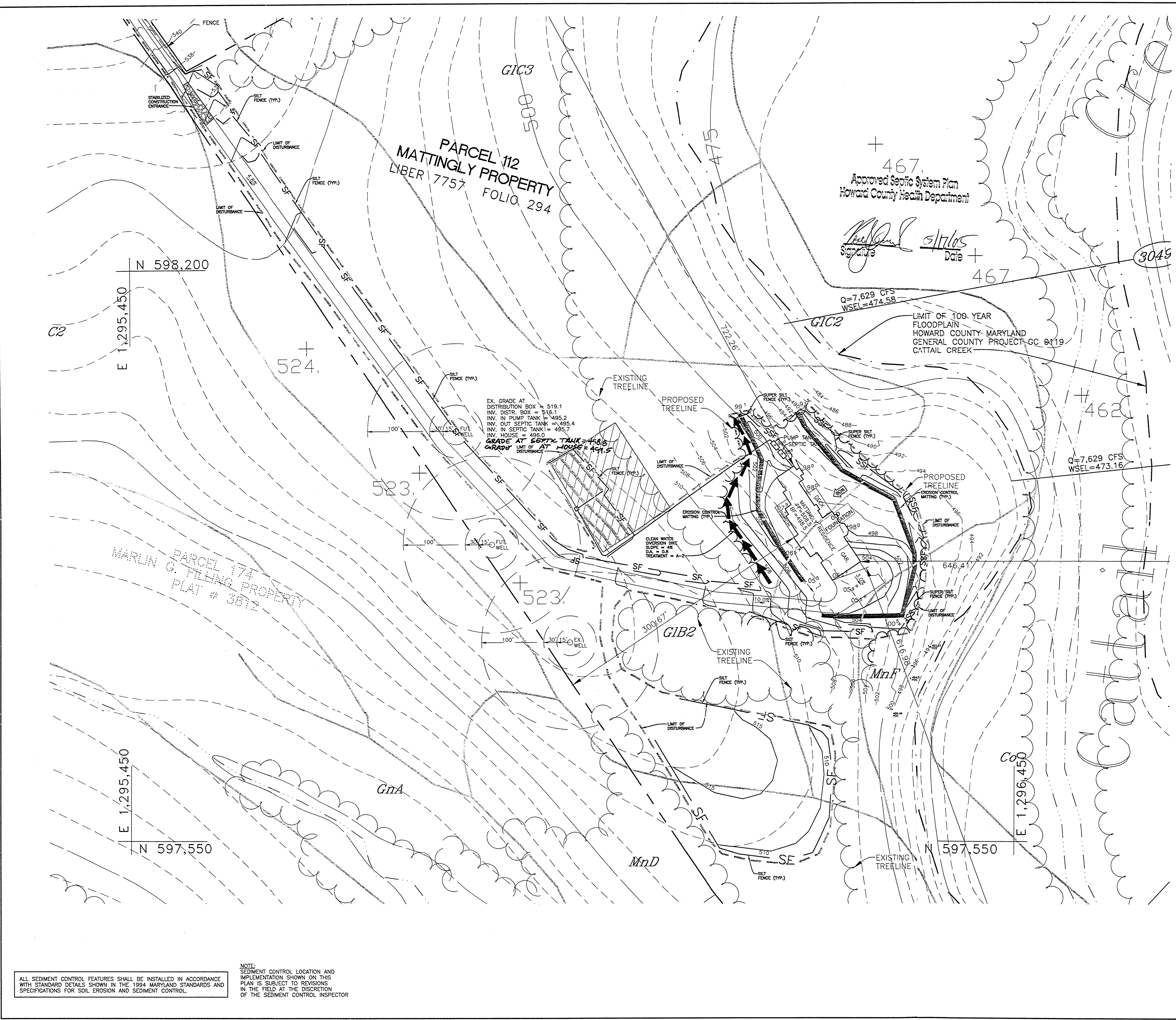
INSTALLATION 7/26/05 Trenches installed good OK to cover D-box ported for pump test. (GAC)

11/17/05 Dual pump system 1500 gallon pumping station. OK per Stuart Oster to allow undersized pump tank because of 2 pump system. OK for septic tank to be 15' from house due to space/cover constraints. Not likely a location for deck. (GAC) 7/14/06 Pump and alarm

working. Alarm wired up separately from pumps per

FINAL INSPECTOR B. Baker DATE OF APPROVAL 7/14/06

Kettermans (BB)



LEGEND

EXISTING CONTOUR	— 528 —
PROPOSED CONTOUR	— 528 —
PROP. SILT FENCE	— SF —
PROP. SUPER SILT FENCE	— SSF —
LIMIT OF DISTURBANCE	— —
STABILIZED CONSTRUCTION ENTRANCE	— SCE —
EX. TREE LINE	— —
PROP. TREE LINE	— —
EX. SEPTIC RESERVE AREA	— —
PROP. EROSION CONTROL MATTING	— —
EARTH DIKE	— —



467
Approved Septic System Plan
Howard County Health Department

Signature 4/19/05
Date

Q=7.629 CFS
WSEL=474.58

LIMIT OF 100 YEAR FLOODPLAIN
HOWARD COUNTY MARYLAND
GENERAL COUNTY PROJECT GC 0319
CATTAIL CREEK

Q=7.629 CFS
WSEL=473.16

EX. GRADE AT DISTRIBUTION BOX = 519.1
INV. IN PUMP TANK = 495.2
INV. IN SEPTIC TANK = 495.7
INV. HOUSE = 495.0
GRADE AT SEPTIC TANK = 488.0
GRADE AT HOUSE = 491.5

CLEAN WATER EROSION DIKE
SLOPE = 4%
R.A. = 10'
TREATMENT = A-2

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature 4/20/05
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature 4/20/05
NATURAL RESOURCES CONSERVATION SERVICE DATE

ENGINEER'S CERTIFICATION

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 conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature 4/19/05
Date

BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

Signature 4/19/05
Date

NO.	DATE	REVISION
1	5-3-05	ADD INFORMATION TO SEPTIC TABULATION

BENCHMARK ENGINEERING, INC.
ENGINEERS • LAND SURVEYORS • PLANNERS

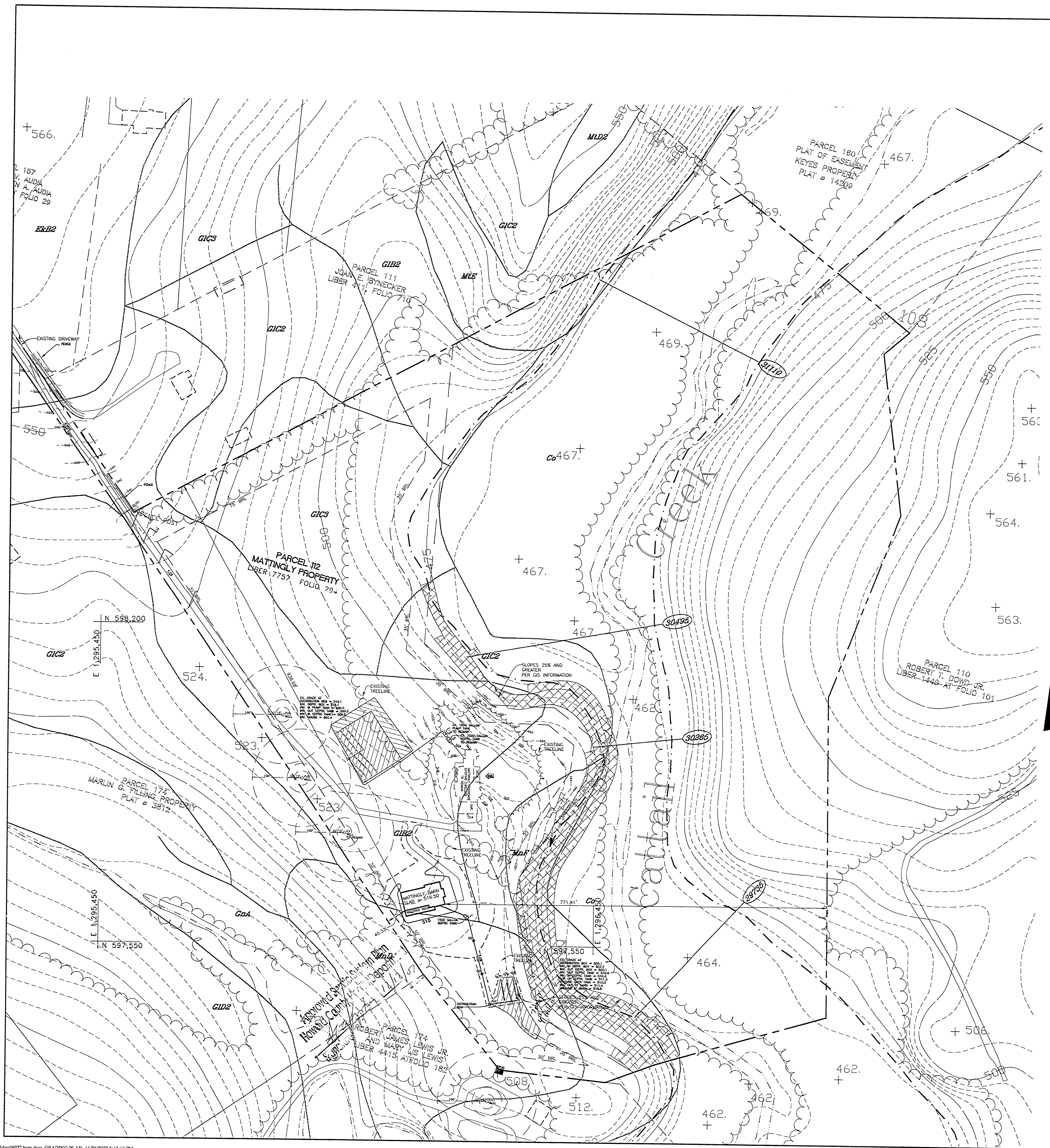
8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 • FAX: 410-465-6644
EMAIL: benchmark@oasis.com

Signature 4/19/05

BUILDER: JAMES H. SELFRIDGE BUILDERS 14045 GARED DRIVE GLENWOOD, MARYLAND 21738 410-531-8930	PROJECT: MATTINGLY PROPERTY
LOCATION: DAISY ROAD WOODBINE, MD 21797 TAX MAP No. 14, GRID No. 1, PARCEL No. 112 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: GRADING PLAN ENLARGEMENT
HOUSE TYPE: MATTINGLY RESIDENCE	DATE: APRIL 2005
DESIGN: JMC	DRAFT: JMC
SCALE: 1" = 50'	PROJECT NO. 1673 DRAWING 2 OF 3

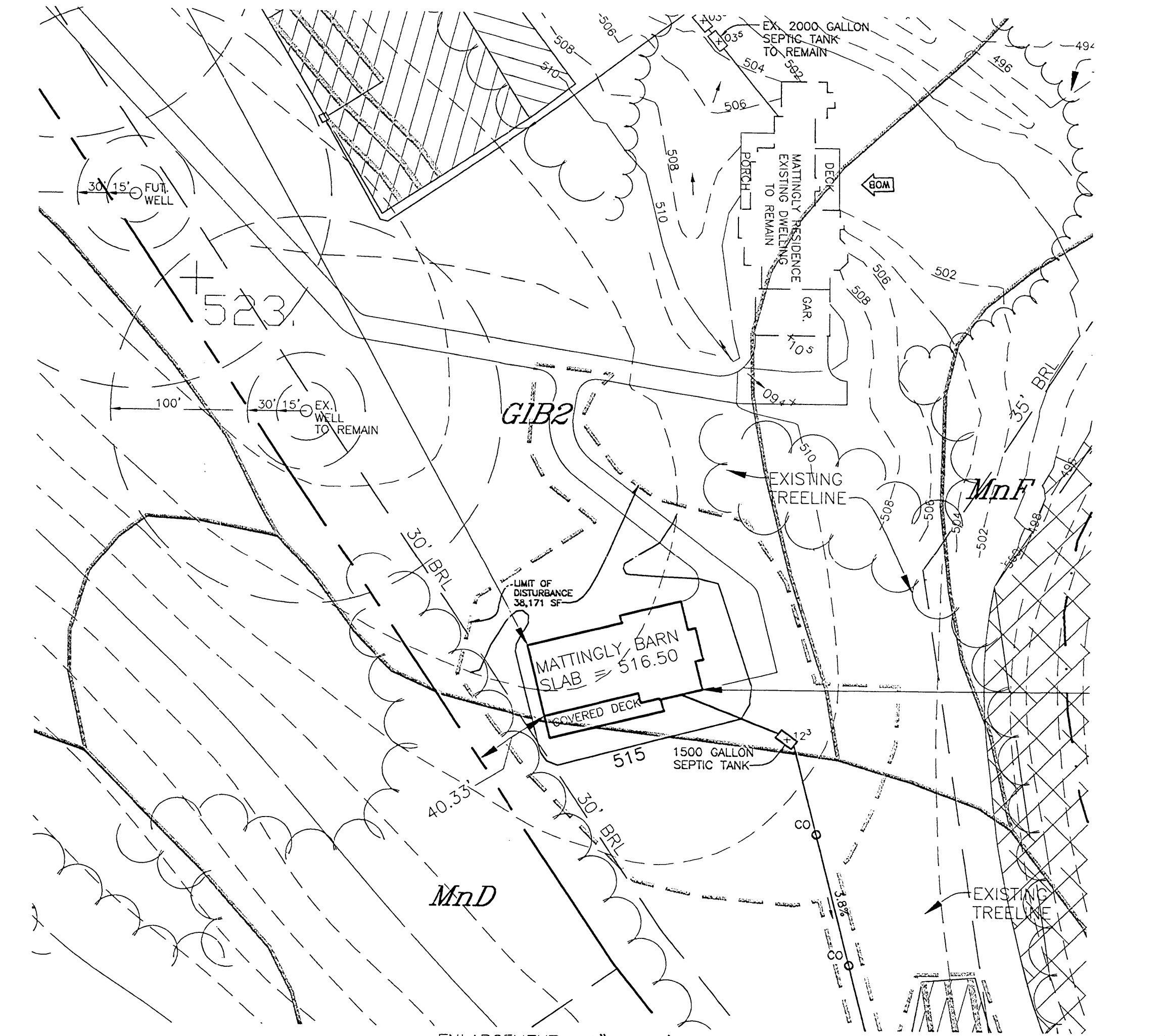
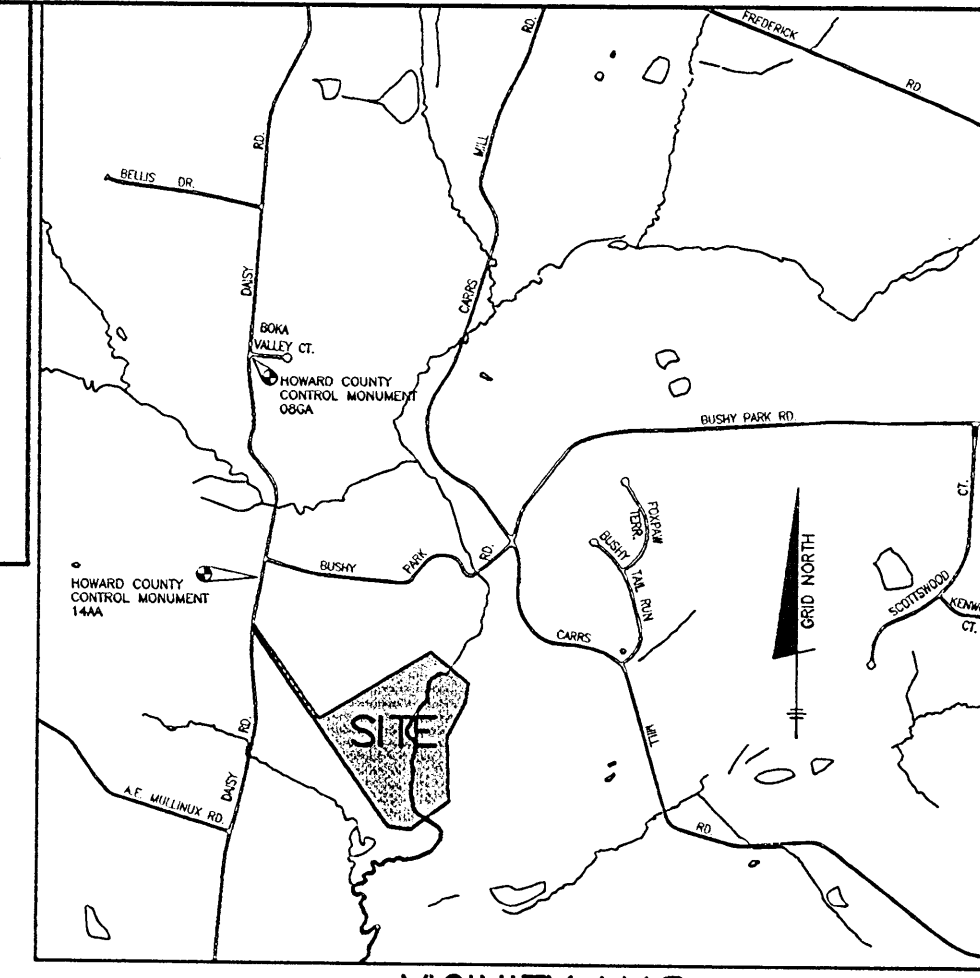
ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

NOTE: SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THIS PLAN IS SUBJECT TO REVISIONS IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.



STORMWATER MANAGEMENT HAS BEEN PROVIDED FOR THIS DEVELOPMENT BY THE NON-STRUCTURAL PRACTICES OF DISCONNECTION OF NON-ROOFTOP RUNOFF AND GRASS CHANNEL CREDIT FOR WATER QUALITY AND GROUNDWATER RECHARGE. CHANNEL PROTECTION HAS BEEN PROVIDED BY THE DISCONNECTION OF NON-ROOFTOP RUNOFF. THESE STORMWATER MANAGEMENT PRACTICES ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE OWNER OF THIS PARCEL.

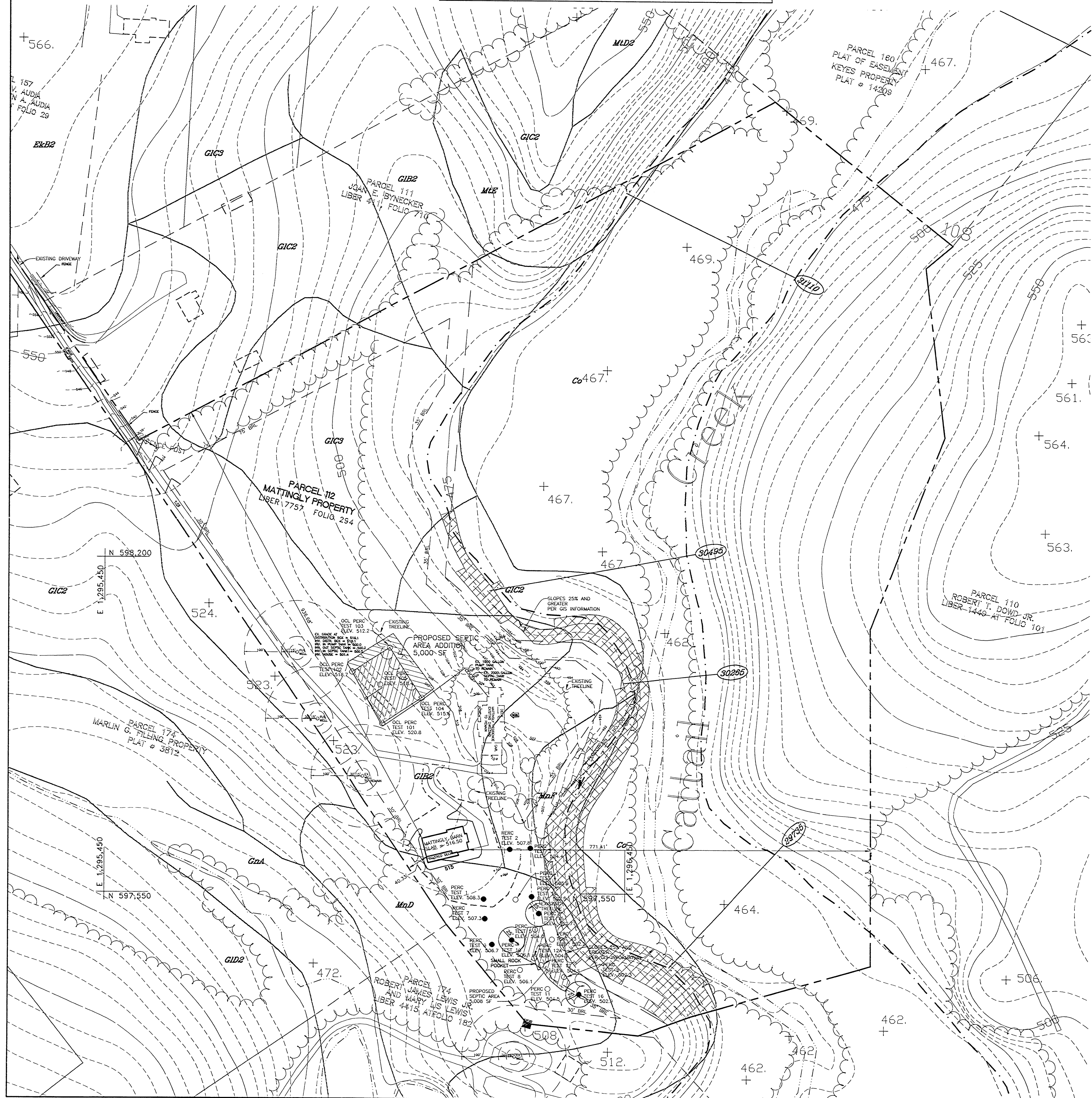
BENCH MARKS NAD'83
 HO. CO. #08GA
 STAMPED BRASS DISK SET ON TOP OF CONC. BASE: 14.6' EAST OF CL OF DAISY ROAD, 15.2' NORTH OF G&E POLE 542475 AND 42.1' NORTHEAST OF C&P POLE #25
 N 602,165.193' E 1,294,794.900'
 ELEV. 551.43'
 HO. CO. #14AA
 STAMPED BRASS DISK SET ON TOP OF CONC. BASE 0.1 MILES SOUTH OF BUSHY PARK RD, 2.1' WEST OF THE EDGE OF PAVING OF DAISY ROAD, AND 39.3' NORTH OF C&P POLE #38.
 N 599,438.278' E 1,294,825.949'
 ELEV. 555.71'



NO.	DATE	REVISION
BENCHMARK ENGINEERS • LAND SURVEYORS • PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE • SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 • FAX: 410-465-6644 EMAIL: benchmark@ccis.com		
OWNER: BRIAN AND CONNIE MATTINGLY 2185 DAISY ROAD WOODBINE, MARYLAND 21797		PROJECT: MATTINGLY PROPERTY
BUILDER: JAMES H. SELFRIDGE BUILDERS 4781 TEN OAKS ROAD DAYTON, MARYLAND 21036 410-531-8930		LOCATION: 2185 DAISY ROAD WOODBINE, MD 21797 TAX MAP No. 14, GRID No. 1, PARCEL No. 112 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DESIGN: JMC DRAFT: JMC		TITLE: SEDIMENT AND EROSION CONTROL PLAN HOUSE TYPE: PLOT PLAN - AGRICULTURAL LAND DATE: SEPTEMBER, 2007 PROJECT NO.: 1673 SCALE: 1" = 100' DRAWING 1 OF 1

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
GIB2	B	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
GIC2	B	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
MnD	B	MANOR VERY STONY LOAM, 3 TO 25 PERCENT SLOPES
MnF	B	MANOR VERY STONY LOAM, 25 TO 60 PERCENT SLOPES

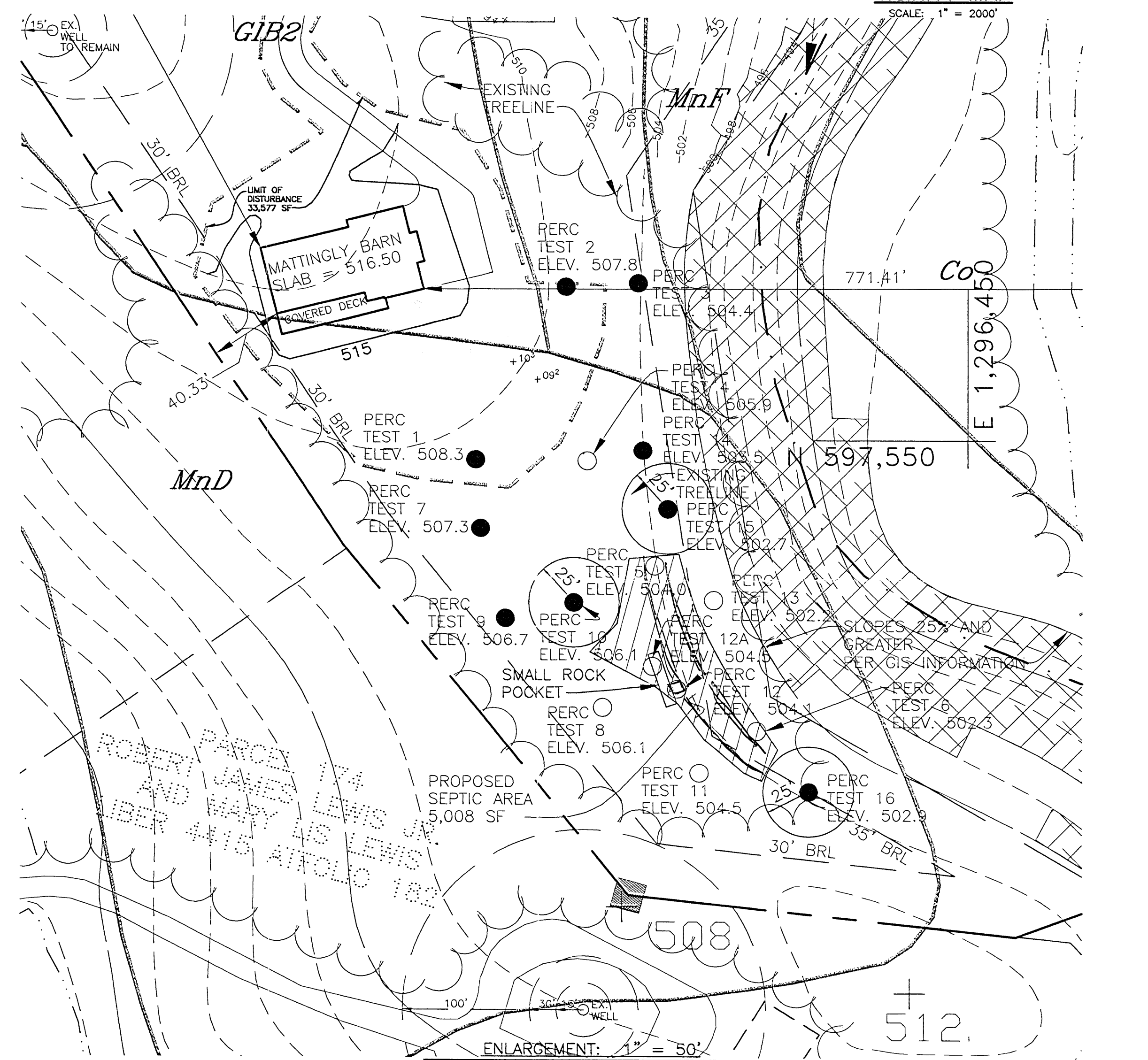
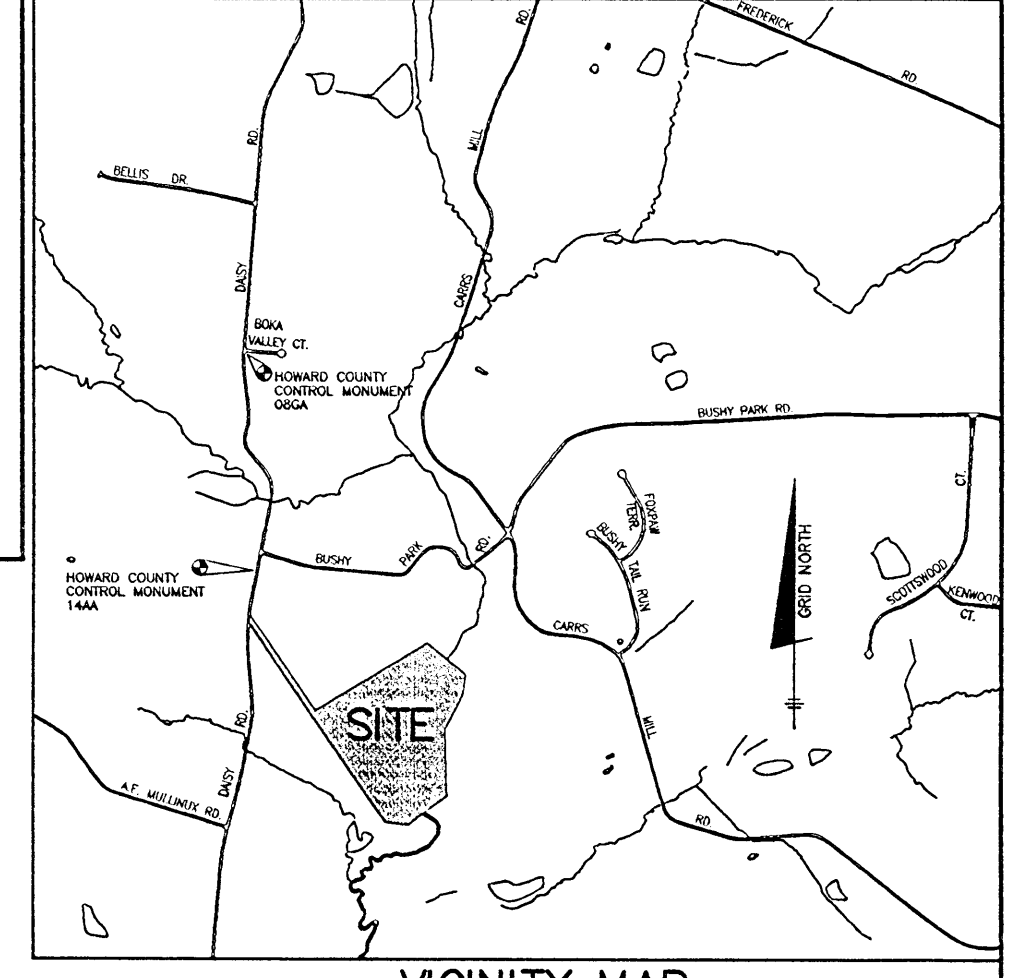
NO HYDRIC SOILS PRESENT AS DETERMINED BY SOIL SURVEY, HOWARD COUNTY, MARYLAND (ISSUED JULY 1988) MAP NO. 6



GENERAL NOTES

- 1.) THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. ANY CHANGES TO A PRIVATE SEWAGE SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 2.) THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 3.) EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
- 4.) TOPOGRAPHY SHOWN IS BASED ON DIGITAL GIS TOPOGRAPHY PURCHASED FROM HOWARD COUNTY. THE 2' CONTOURS WERE FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN OCTOBER, 2007.
- 5.) THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROPERTY'S BOUNDARIES EXCEPT AS NOTED. ALL REASONABLE EFFORTS WERE USED TO LOCATE ALL SURROUNDING WELLS AND SEPTIC SYSTEMS.
- 6.) THE OWNER INTENDS TO PROVIDE WATER SERVICE TO THE BARN OFF THE EXISTING WELL.
- 7.) ALL STRUCTURES AND SEPTIC SYSTEMS TO BE REMOVED MUST BE REMOVED PRIOR TO FINAL PLAT APPROVAL.
- 8.) THERE ARE NO EXISTING OR PROPOSED WELLS, SEPTIC SYSTEMS, OR SEWAGE DISPOSAL SYSTEMS LOCATED 200 FEET DOWN GRADIENT OF THE EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL EASEMENTS FOR THIS SITE.

BENCH MARKS NAD'83	
HO. CO. #086A	
STAMPED BRASS DISK SET ON TOP OF CONC. BASE 14.8' EAST OF CL OF DAILY ROAD, 16.5' NORTH OF G&E POLE 542475 AND 42.1' NORTHEAST OF C&P POLE #25	
N 602,165.193'	E 1,294,794.900'
ELEV. 551.43'	
HO. CO. #144A	
STAMPED BRASS DISK SET ON TOP OF CONC. BASE 0.1' MILES SOUTH OF BUSHY PARK RD, 2.1' WEST OF THE EDGE OF PAVING OF DAILY ROAD, AND 39.3' NORTH OF C&P POLE #39.	
N 599,438.278'	E 1,294,825.949'
ELEV. 555.71'	



GRID NORTH

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John M. Carney 11/26/07
 JOHN M. CARNEY, FOR BENCHMARK ENGINEERING, INC.
 PLAN PREPARER

APPROVED FOR PRIVATE WATER AND PRIVATE SEWER SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

Robert Peter Beiler 12/10/2007
 HOWARD COUNTY HEALTH OFFICER

LEGEND	
	EXISTING CONTOURS
	EXISTING TREELINE
	EXISTING CL. STREAM
	EXISTING WETLANDS
	LIMIT OF SUBMISSION
	PROPOSED SEPTIC AREA
	SOILS DELINEATION
	PROPOSED WELL
	FAILING PERC TEST
	PASSING PERC TEST

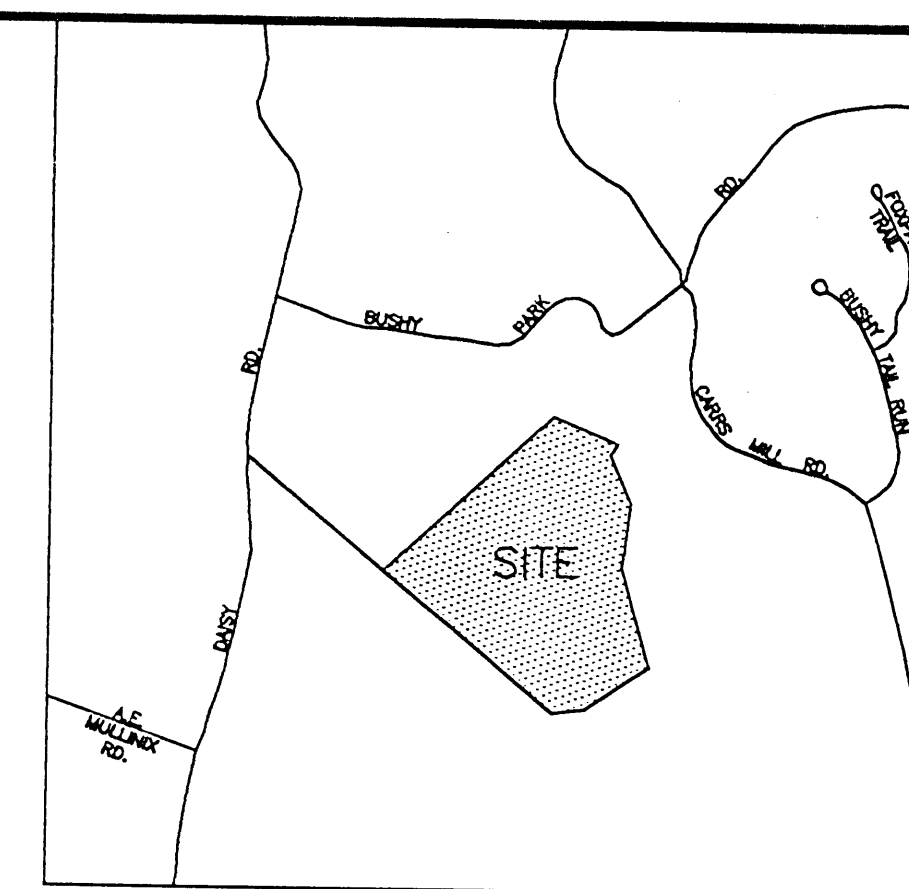
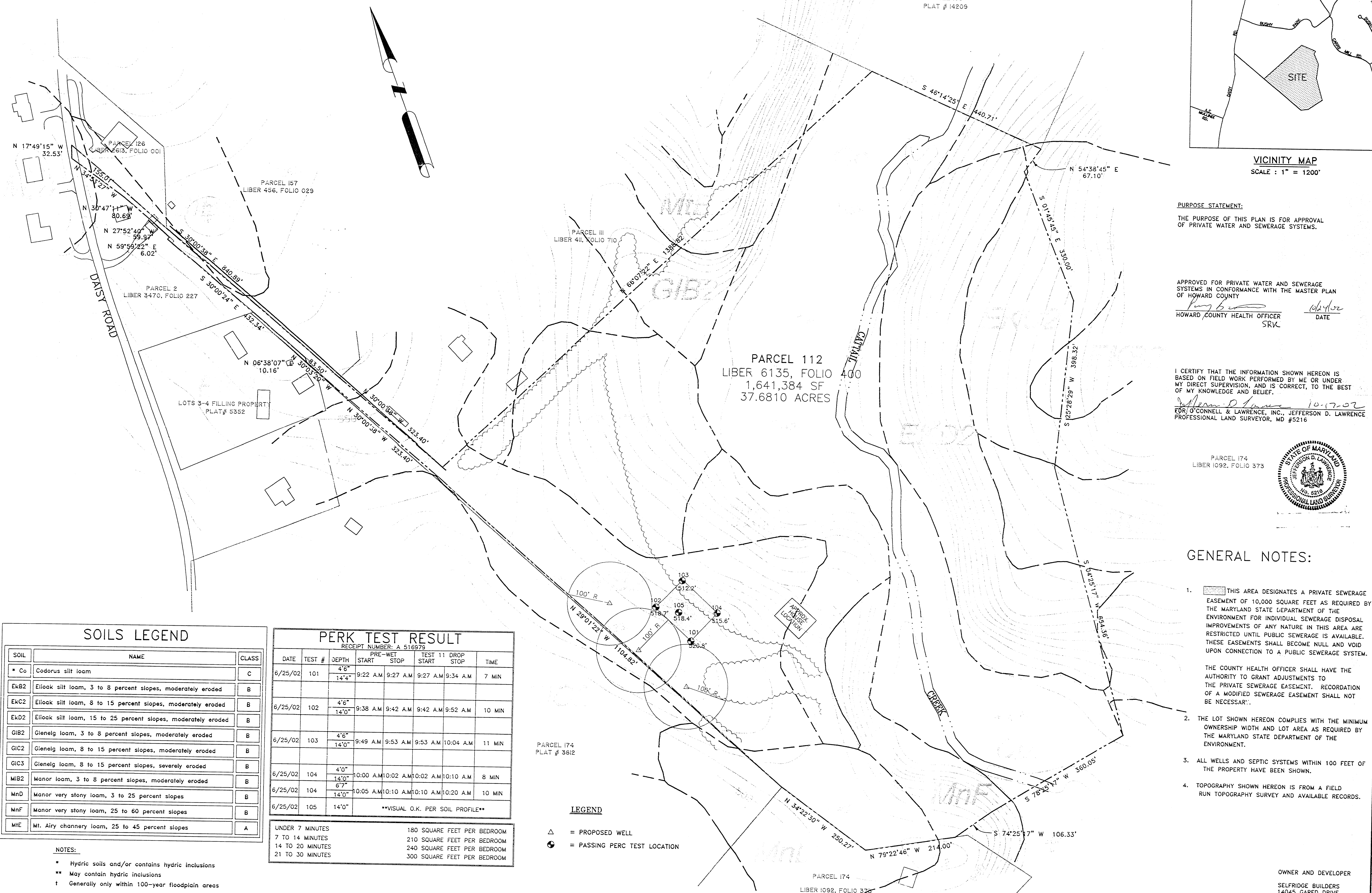
NO.	DATE	REVISION

BENCHMARK ENGINEERING, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 8480 BALTIMORE NATIONAL PIKE # SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644
 EMAIL: benchmark@cois.com

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 21443, Expiration Date: 11/26/2011

OWNER: BRIAN AND CONNIE MATTINGLY 2185 DAILY ROAD WOODBINE, MARYLAND 21797 310-925-9600	PROJECT: MATTINGLY PROPERTY #527347
BUILDER: JAMES H. SELFRIDGE BUILDERS 4781 TEN OAKS ROAD DAYTON, MARYLAND 21036 410-531-8930	LOCATION: 2185 DAILY ROAD WOODBINE, MD 21797 TAX MAP No. 14, GRID No. 1, PARCEL No. 112 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DESIGN: JMC DRAFT: JMC	TITLE: PERCOLATION TESTING PLAN (REVISED CERTIFICATION)
	HOUSE TYPE: BARN - AGRICULTURAL LAND
	DATE: NOVEMBER, 2007 PROJECT NO. 1673
	SCALE: 1" = 100' DRAWING 1 OF 1

PARCEL #	No. Bdrms	Test Site	Time (min.)	Depth of Tests	Test Site	Time (min.)	Depth of Tests	Inv. Low Fixture	Inv. In	Inv. Out	Inv. Beg.	Length Initial	Length Entire	Depth Stone
112	6	101	7 min.	4' 6" 14' 4"	103	11 min.	4' 6" 14' 0"	502.0'	501.05'	500.8'	517.5'	100 LF	1000 LF	4'



VICINITY MAP
SCALE: 1" = 1200'

PURPOSE STATEMENT:
THE PURPOSE OF THIS PLAN IS FOR APPROVAL OF PRIVATE WATER AND SEWERAGE SYSTEMS.

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY
[Signature]
HOWARD COUNTY HEALTH OFFICER SRVL DATE 10/2/02

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
[Signature] 10-17-02
FOR: O'CONNELL & LAWRENCE, INC., JEFFERSON D. LAWRENCE
PROFESSIONAL LAND SURVEYOR, MD #5216



GENERAL NOTES:

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM.

THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
- TOPOGRAPHY SHOWN HEREON IS FROM A FIELD RUN TOPOGRAPHY SURVEY AND AVAILABLE RECORDS.

SOILS LEGEND

SOIL	NAME	CLASS
* Co	Codorus silt loam	C
EkB2	Eliok silt loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Eliok silt loam, 8 to 15 percent slopes, moderately eroded	B
EkD2	Eliok silt loam, 15 to 25 percent slopes, moderately eroded	B
GIB2	Gienelg loam, 3 to 8 percent slopes, moderately eroded	B
GIC2	Gienelg loam, 8 to 15 percent slopes, moderately eroded	B
GIC3	Gienelg loam, 8 to 15 percent slopes, severely eroded	B
MIB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
MnD	Manor very stony loam, 3 to 25 percent slopes	B
MnF	Manor very stony loam, 25 to 60 percent slopes	B
MIE	Mt. Airy channery loam, 25 to 45 percent slopes	A

NOTES:
* Hydric soils and/or contains hydric inclusions
** May contain hydric inclusions
† Generally only within 100-year floodplain areas

PERK TEST RESULT
RECEIPT NUMBER: A 516979

DATE	TEST #	DEPTH	PRE-WET START	PRE-WET STOP	TEST 11 START	TEST 11 STOP	DROP START	DROP STOP	TIME
6/25/02	101	4' 6" 14' 4"	9:22 A.M.	9:27 A.M.	9:27 A.M.	9:34 A.M.			7 MIN
6/25/02	102	4' 6" 14' 0"	9:38 A.M.	9:42 A.M.	9:42 A.M.	9:52 A.M.			10 MIN
6/25/02	103	4' 6" 14' 0"	9:49 A.M.	9:53 A.M.	9:53 A.M.	10:04 A.M.			11 MIN
6/25/02	104	4' 0" 14' 0"	10:00 A.M.	10:02 A.M.	10:02 A.M.	10:10 A.M.			8 MIN
6/25/02	104	8' 7" 14' 0"	10:05 A.M.	10:10 A.M.	10:10 A.M.	10:20 A.M.			10 MIN
6/25/02	105	14' 0"	**VISUAL O.K. PER SOIL PROFILE**						

UNDER 7 MINUTES	180 SQUARE FEET PER BEDROOM
7 TO 14 MINUTES	210 SQUARE FEET PER BEDROOM
14 TO 20 MINUTES	240 SQUARE FEET PER BEDROOM
21 TO 30 MINUTES	300 SQUARE FEET PER BEDROOM

LEGEND

- △ = PROPOSED WELL
- = PASSING PERC TEST LOCATION

O'Connell & Lawrence, Inc.
Construction Consultants, Engineers, Surveyors
17904 Georgia Avenue, Suite 302
Olney, Maryland 20832
Tel: (301) 924-4570 • Fax: (301) 924-5872

O'C & L

LANDS OF YEAGER PROPERTY
LIBER 6135 AT FOLIO 400
TAX MAP 14, PARCEL 112
(4TH) ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

(PERC CERT. PLAN)

WELL AND SEPTIC PLAN

REV.	DATE	BY
1		
2		

DATE: MAY 5, 2002
DES. DWN. BDA
SCALE: 1" = 100'
PROJECT/FILE NO. 002-040
SHEET NO. 1 OF 1

OWNER AND DEVELOPER
SELFRIDGE BUILDERS
14045 GARED DRIVE
GLENWOOD, MARYLAND
21738
(410) 531-8930

