

LAYOUT _____ INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 03/30/2006

APPROVAL DATE: 05/19/2006

PERMIT

INDEXED

TAX ID #03-300609

P 524380

A 538444

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

South Carroll Backhoe, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Road, Westminster PHONE NUMBER: 410-875-4197

SUBDIVISION: Swift Property LOT NUMBER: 1

ADDRESS: 1945 Marriottsville Road PROPERTY OWNER: Knudsen Development, LLC

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): n/a COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 185 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 2.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box at the highest elevation in the approved SDA.
NOTES:	No 90 degree elbows in septic line before septic tank.

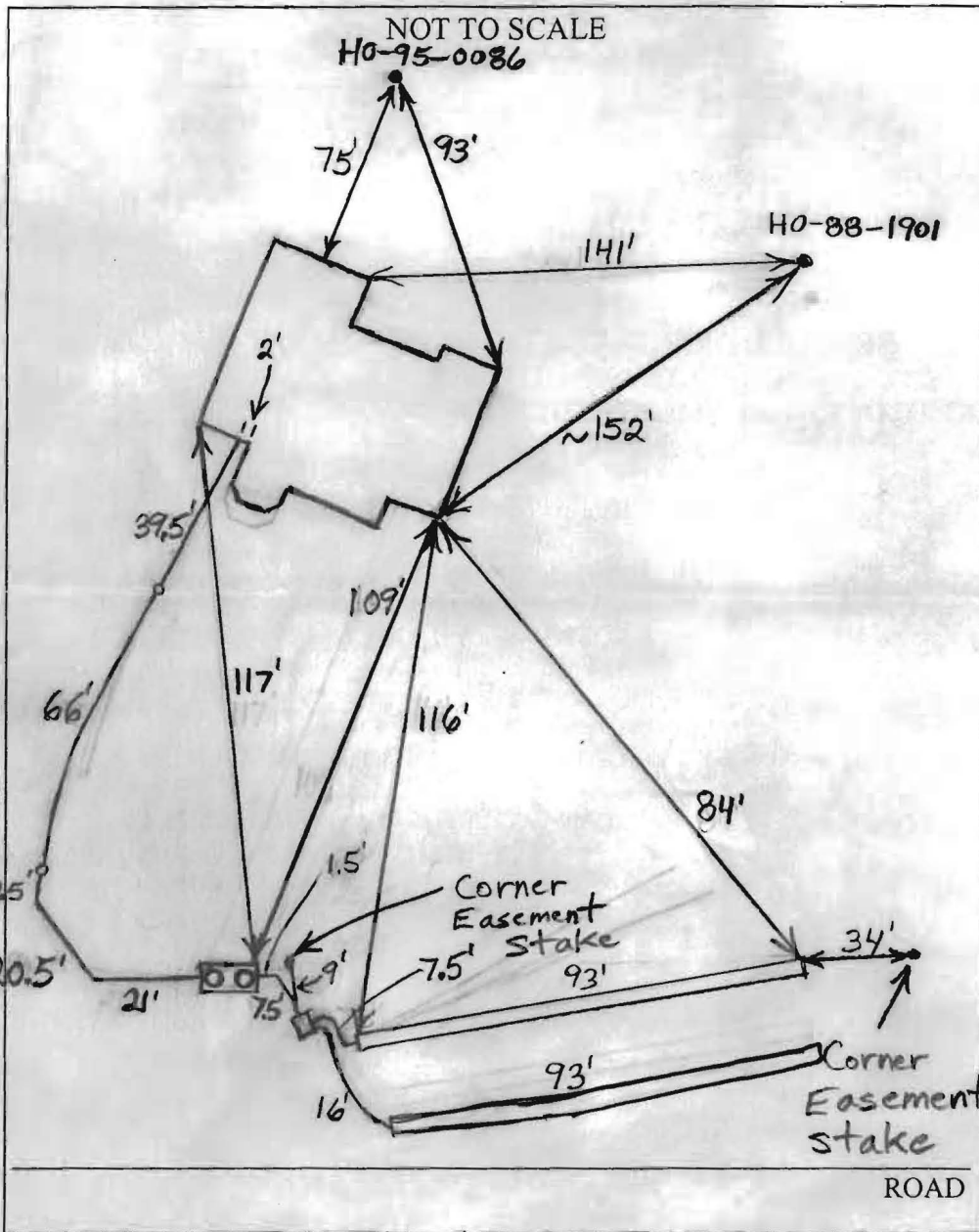
PLANS APPROVED: Pete Yencsik Reviewed by: _____ DATE: 10/21/05

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

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 ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM

BUILDING PERMIT SIGNED AND RETURNED

4/26/06 B00159095 UG 250gal LP tank



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2	4'-4.5'	8
NUMBER OF TRENCHES		2
TOTAL LENGTH		186'
ABSORPTION AREA		558
DISTRIBUTION BOX LEVEL		Yes
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		No

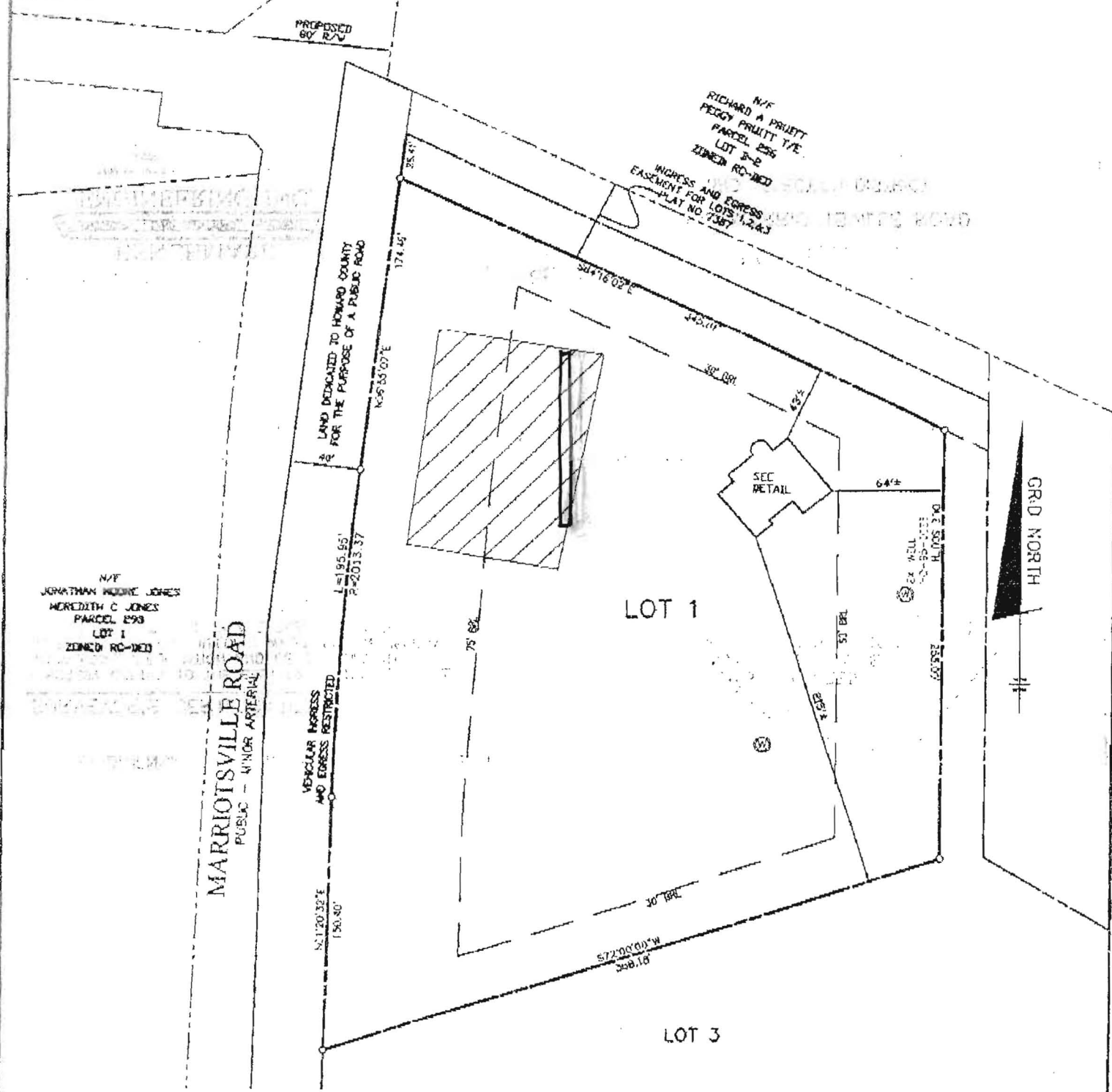
SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1'-2'
BAFFLES	Yes - Per Installer
BAFFLE FILTER	None
MANHOLE LOC	Front + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	

PRE-CONSTRUCTION 4/26/06 1:30 pm Nobody from South Carroll Backhoe Co. on site. (GAD)

INSTALLATION 4/28/06 Single compartment tank installed. To remove and install a 2 compartment tank. Top trench done. House connection made. (BB) 5/4/06 Single compartment tank replaced with 1500 gallon 2-compartment tank. Need to finish hooking up plumbing to new tank and install 2nd trench. (BB) 5/9/06 Bottom trench has 4.5' inlet. O.K. to cover. (BB)

BUILDING PERMIT SIGNED

FINAL INSPECTOR B. Baker DATE OF APPROVAL 5/19/06

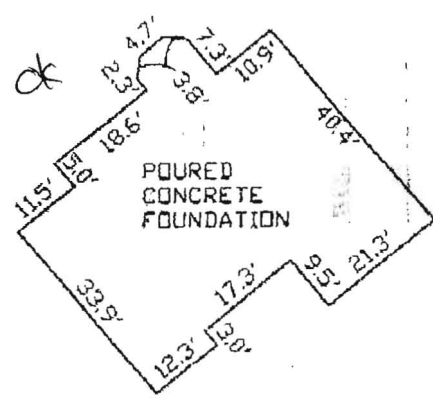


FIRST FLOOR ELEVATION = 529.3'
 OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 1'

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT. THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 11/21/05; AND THAT THE PROPERTY OUTLINE SHOWN HEREON IS BASED ON THE PLAT PREPARED BY JOHN C. MELLEMA SR. INC. ENTITLED "SWIFT SUBDIVISION LOTS 1, 2, AND 3", AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY AS PLAT No. 7387

3/30/06
well check *OK*
(EJB)



~FOUNDATION DETAIL~

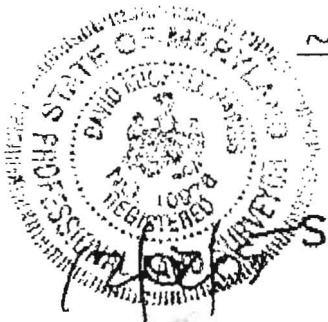
SCALE: 1" = 30'

WALL CHECK

**SWIFT SUBDIVISION
 LOTS 1, 2, & 3
 LOT No. 1**

1945 MARIOTTSVILLE ROAD
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 120' DATE: 11/21/05

David M. Harris
 DAVID M. HARRIS
 REGISTERED PROFESSIONAL LAND SURVEYOR
 MD REG. No. 10978
 FOR BENCHMARK ENGINEERING, INC.
 MD REC. No. 351
 RECORD PLAT No. 7387
 FEMA FIRM No. 240044 0016 B
 ZONE: C
 DATED: 12/04/86



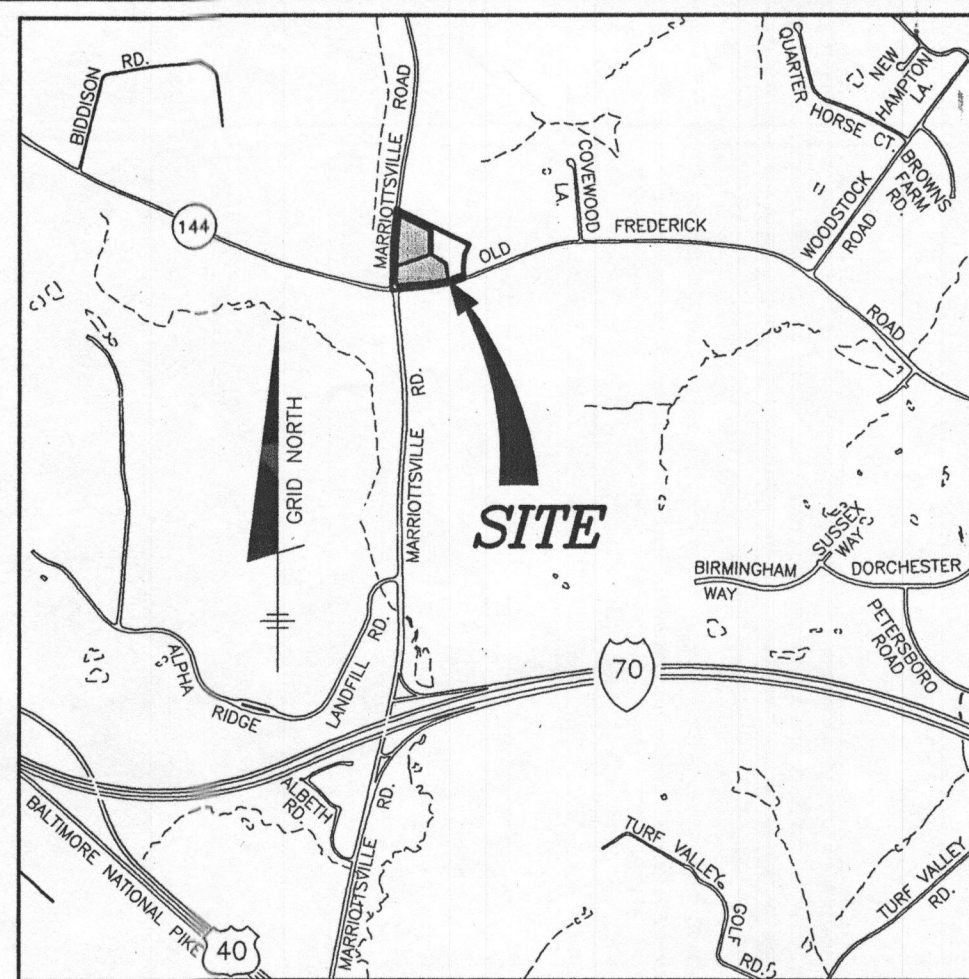
**BENCHMARK
 ENGINEERING, INC.**

3440 BALTIMORE NATIONAL PIKE & SUITE 410
 GAITHERSBURG CITY, MARYLAND 20878
 PHONE: (410) 286-1000 FAX: (410) 286-1001
 WWW.BENCHMARKENGINEERING.COM
 PRINTED: 11/22/2005 2:49:34 PM

N 601,700
E 1,341,800

LEGEND

- SOILS CLASSIFICATION AbC1
- SOILS DELINEATION
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- PROPOSED STRUCTURE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- SUPER SILT FENCE
- EROSION CONTROL MATTING
- PRIVATE SEWERAGE EASEMENT
- EX. FIELD-SHOT ELEVATION
- PROP. ELEVATION



VICINITY MAP
SCALE: 1" = 2000'

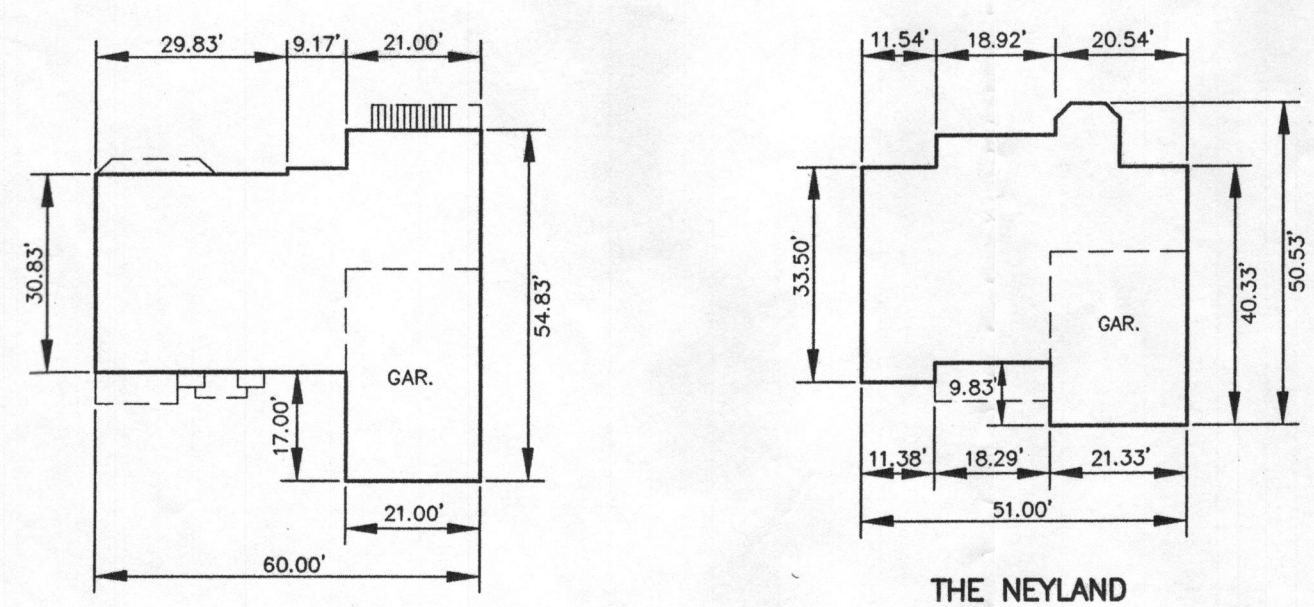
GENERAL NOTES

- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/02/04 COMPREHENSIVE ZONING PLAN.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" @ 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTOURS SHOWN HEREON HAVE BEEN TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEYS AT 2' INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JUNE, 2005.
- THERE ARE NO EXISTING WETLANDS, WETLANDS BUFFERS, STREAMS, STREAM BUFFERS, 100-YR. FLOODPLAIN, OR FOREST CONSERVATION EASEMENTS ON-SITE.
- BRL INDICATES BUILDING RESTRICTION LINE.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE, TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS.
- UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
- STORMWATER MANAGEMENT QUALITY CONTROL IS BEING PROVIDED BY GRASS SWALES. THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND THE ROAD RIGHT-OF-WAY ONLY AND NOT ONTO THE FLAG OR PIPESTEM LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - A) WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE).
 - B) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING.
 - C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
 - D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S LOAD)
 - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
 - F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
 - G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- THE LOTS SHOWN HEREON WERE CREATED BY PLAT No.7387 DATED 9-3-1987
- PRIVATE SEPTIC EASEMENTS SHOWN ARE AS SHOWN ON PLAT No.7387
- THERE ARE NO KNOWN EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY EXCEPT AS NOTED.
- EXACT LENGTH OF SEPTIC TRENCHES IS TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PERMIT ISSUANCE.
- SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION.
- ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 PLAT SHALL NOT BE NECESSARY.
- THE EX. WELLS HO-95-0080 & HO-95-0097 WERE FIELD LOCATED BY BENCHMARK ENGINEERING, INC. ON/OR ABOUT OCT. 12, 2005 AND ACCURATELY SHOWN.

Approved Septic System Plan
Howard County Health Department
Signature: [Signature]
Date: 9/13/05



PLAN
SCALE: 1" = 50'



BUILDING FOOTPRINTS
SCALE: 1" = 30'

SPOIL FROM THE TRENCHING OPERATIONS IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATIONS

ALL SEDIMENT & EROSION CONTROL FEATURES ARE TO BE REPAIRED IMMEDIATELY IF DISRUPTED BY CONSTRUCTION ACTIVITY

MAP SYMBOL	SOIL TYPE	MAPPING UNIT
BrB2	A	BRANDYWINE LOAM, 3-8 PERCENT SLOPES, MODERATELY ERODED
GIB2	B	GLENELG LOAM, 3-8 PERCENT SLOPES, MODERATELY ERODED
GIC2	B	GLENELG LOAM, 8-15 PERCENT SPOLES, MODERATELY ERODED
GIC3	B	GLENELG LOAM, 8-15 PERCENT SLOPES, SEVERELY ERODED
GID2	B	GLENELG LOAM, 15-25 PERCENT SLOPES, SEVERELY ERODED

TAKEN FROM SOIL SURVEY, HOWARD COUNTY, MARYLAND (ISSUED JULY 1968) MAP NO. 31
* INDICATES HYDRIC SOILS

BY THE DEVELOPER:
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]
DEVELOPER
Date: 9/13/05

BY THE ENGINEER:
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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature]
ENGINEER - DONALD A. MASON, P.E. # 21443
Date: 9/13/05

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature]
NATURAL RESOURCES CONSERVATION SERVICE
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature]
HOWARD SOIL CONSERVATION DISTRICT
Date: 9-15-05

NO.	DATE	REVISION
1	10/17/05	FOR HO. CO. HEALTH DEPT. COMMENTS; SEPTIC LOT 1; EX. WELLS & NOTE

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
E-MAIL: www.bel-civilengineering.com

SWIFT PROPERTY LOTS 1 AND 3
LOCATION: TAX MAP 10 - GRID 22
PARCEL 255
3rd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TITLE: **GRADING AND SEDIMENT & EROSION CONTROL PLAN**
DATE: AUGUST, 2005 PROJECT NO. 1814
SEPTEMBER 13, 2005
SCALE: AS SHOWN DRAWING 1 OF 2