

**GENERAL NOTES**

- THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS OTHERWISE SPECIFIED.
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 2-2-2004 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7-28-2006.
- COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BENCHMARK ENGINEERING TRAVERSE POINTS 1 AND 2.
- TRACT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED ON OR ABOUT FEBRUARY, 2013 BY BENCHMARK ENGINEERING, INC. TOPOGRAPHY IS BASED ON FIELD RUN TOPO PERFORMED BY BENCHMARK ENGINEERING, INC. IN FEBRUARY, 2013.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE TRAFFIC STUDY FOR THIS LOT IS NOT REQUIRED AS IT IS A SINGLE EXISTING LOT AND NO NEW/ADDITIONAL LOTS ARE BEING CREATED.
- THE FOREST STAND DELINEATION WAS PREPARED BY BENCHMARK ENGINEERING, INC. AND SUBMITTED AND APPROVED WITH THE ENVIRONMENTAL CONCEPT PLAN, ECP-13-058.
- THERE ARE NO WETLANDS, STREAMS, THEIR BUFFERS, 100-YEAR FLOODPLAIN OR STEEP SLOPES LOCATED ON THESE LOTS.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- WATER IS PUBLIC. THE CONTRACT NUMBER IS 3-W.
- SEWER IS PUBLIC. THE CONTRACT NUMBER IS 128-S.
- THIS SUBDIVISION IS SUBJECT TO SECTION 18.122B OF THE HOWARD COUNTY CODE. PUBLIC WATER AND/OR SEWER ALLOCATIONS WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- THERE ARE NO HISTORIC SITES/FEATURES LOCATED ON THIS SITE.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE).
  - SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.)
  - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S LOADING).
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
  - STRUCTURE CLEARANCES - MINIMUM 12 FEET.
  - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- STORMWATER MANAGEMENT FOR THESE LOTS IS PROVIDED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT ACT OF 2007. ENVIRONMENTAL SITE DESIGN (ESD) HAS BEEN IMPLEMENTED TO THE MAXIMUM EXTENT PRACTICAL (MEP) BY THE USE N-1 DISCONNECTION OF ROOFTOP RUNOFF AND N-2 DISCONNECTION OF NON-ROOFTOP RUNOFF.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY THE FILING OF A DECLARATION OF INTENT AS THE LIMIT OF CLEARING SHALL BE LESS THAN 20,000 S.F. AND THE SINGLE LOT IS GREATER THAN 40,000 S.F.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 5 TREES IN THE AMOUNT OF \$1,500.00 IS PART OF THE BUILDERS GRADING PERMIT APPLICATION.

- THE EXISTING UTILITIES SHOWN HEREON ARE BASED ON FIELD SURVEYS/ CONTRACT DRAWINGS AND HOWARD COUNTY GIS. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR VERIFYING THESE UTILITIES IN THE FIELD AT TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED, MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- TRASH COLLECTION FOR THIS LOT SHALL BE PROVIDED AT THE DRIVEWAY JUNCTION WITH THE PUBLIC ROAD.

**Design Narrative:**

The proposed development will consist of 1 single family detached home with a driveway accessing off of the end of an existing driveway which accesses off of Savage Guilford Road. There are no environmentally sensitive areas (i.e. steep slopes 25% or greater, wetlands, streams, or their buffers) on this property.

Treatment of the house shall be via N-1 Disconnection of Non-Rooftop Runoff. The driveway shall be treated via N-2 Disconnection of Non-Rooftop Runoff.

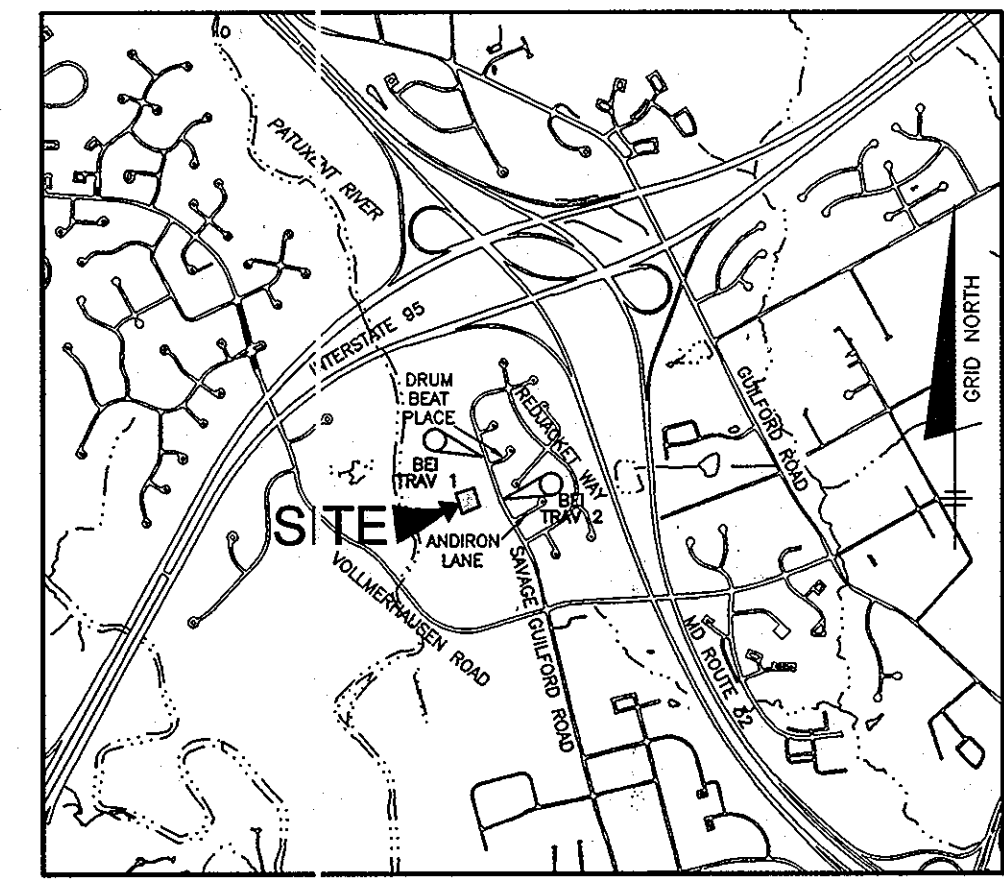
The natural flow pattern of the property shall be preserved. The proposed N-1 Disconnection of Rooftop is designed to disperse the rooftop runoff along different areas of the property so there is not one concentrated area of flow. This will help to mimic the layout of the natural ground as the runoff re-enters the ground as treated.

Reduction of impervious areas has been implemented as best as possible by utilizing the narrowest allowed driveways for single residence with a 2-car garage. The forest clearing being shown is the minimum necessary to construct the home and driveway.

As a result of utilizing environmental site design to the maximum extent practical, SWM has been completely addressed without structural practices.

ESD PRACTICE SUMMARY TABLE						
Practice	Pe=	Inches	Qe=	Inches	ESD=	Cf
(N-1) Rooftop Disconnection #1	500 sf	75 ft	3.3%			1.0 inches
(N-1) Rooftop Disconnection #2	500 sf	100 ft	2.3%			1.0 inches
(N-1) Rooftop Disconnection #3	500 sf	100 ft	2.75%			1.0 inches
(N-1) Rooftop Disconnection #4	500 sf	100 ft	2.25%			1.0 inches
Practice	Pervious Length	Imp Length	Disconn Length	Imp Ratio	Perv Ratio	Po Treated
(N-2) Non-Rooftop Disconnection #1	0'	20'	20'	>1:1	1:1	1.0 inches
(N-2) Non-Rooftop Disconnection #2	0'	12'	12'	>1:1	1:1	1.0 inches
(N-2) Non-Rooftop Disconnection #3	130'	12'	6'	0.5:1	<0.1:1	0.2 inches

SOILS CHART - NRCS SOILS			
SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
UCB	NO	D	URBAN LAND- CHILLUM-BELTSVILLE COMPLEX 0 TO 5 PERCENT SLOPES



**VICINITY MAP**  
SCALE: 1" = 2000'  
ADC MAP: 40  
GRID: E2

**BENCHMARKS**  
NAD '83 HORIZONTAL  
BENCHMARK ENGINEERING TRAVERSE #1  
GPS REBAR AND CAP  
N 541265.3677 E 1360700.0456  
ELEVATION: 302.16  
BENCHMARK ENGINEERING TRAVERSE #2  
GPS REBAR AND CAP  
N 540859.2930 E 1360876.9550  
ELEVATION: 304.16

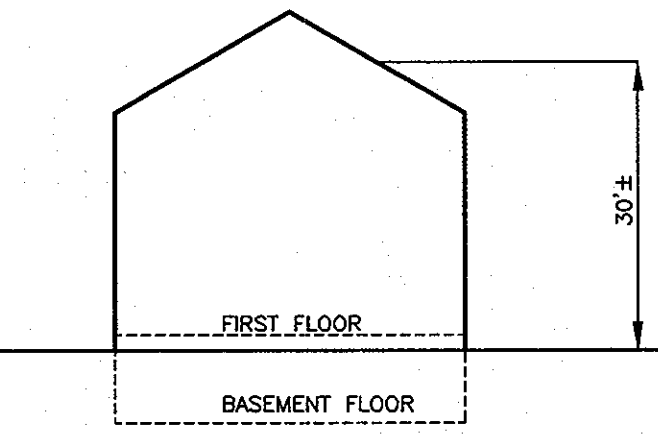
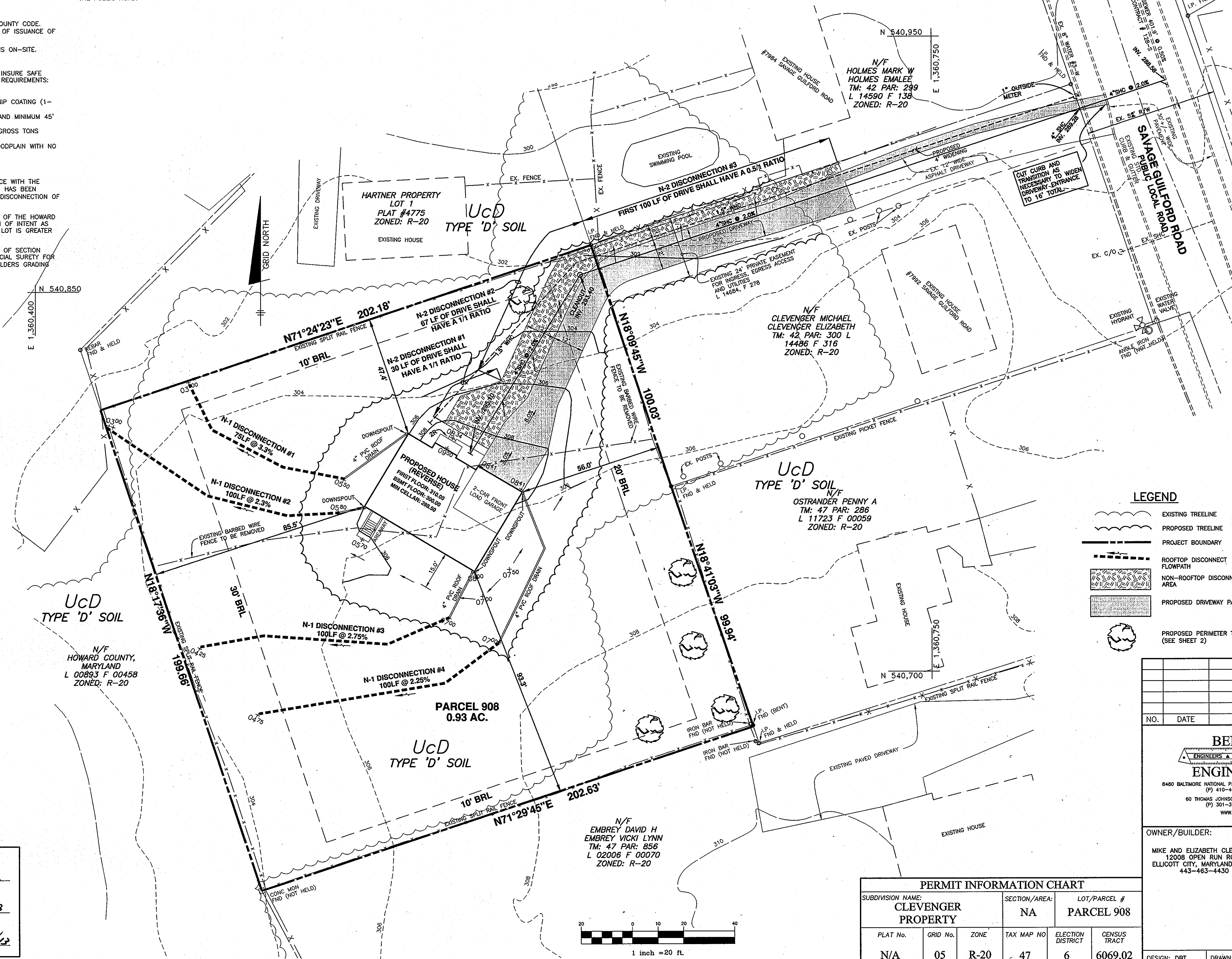
**ADDRESS CHART**  
STREET ADDRESS  
7988 SAVAGE GUILFORD ROAD

SHEET INDEX	
NO.	DESCRIPTION
1	SITE DEVELOPMENT AND GRADING PLAN
2	SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN
3	SEDIMENT AND EROSION NOTES AND DETAILS

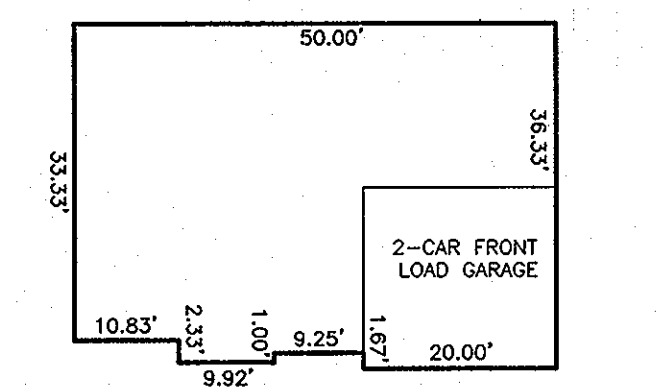
SITE ANALYSIS DATA CHART	
A.) TOTAL PROJECT AREA	0.93 AC.
B.) AREA OF PLAN SUBMISSION	0.93 AC.
C.) LIMIT OF DISTURBED AREA	0.35 AC.
D.) PRESENT ZONING	R-20
E.) PROPOSED USE OF SITE	RESIDENTIAL SFD
F.) FLOOR SPACE ON EACH LEVEL OF BLDG PER USE	N/A
G.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S)	1
H.) TOTAL NUMBER OF UNITS PROPOSED	1
I.) MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE	N/A
J.) NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING RECS AND DMW III	2.3 (1 LOT x 2.3 SPACES)
K.) NUMBER OF PARKING SPACES PROVIDED (INCLUDES 2 PER GARAGE AND 2 PER DRIVEWAY)	4
L.) OPEN SPACE ON-SITE	N/A
M.) AREA OF RECREATIONAL OPEN SPACE REQUIRED, N/A (LESS THAN 10 UNITS) AREA OF RECREATIONAL OPEN SPACE PROVIDED	N/A
N.) BUILDING COVERAGE OF SITE PERCENTAGE OF GROSS AREA	N/A
O.) APPLICABLE DP2 FILE REFERENCES:	ECP-13-058

**LEGEND**

- EXISTING TREELINE
- PROPOSED TREELINE
- PROJECT BOUNDARY
- ROOFTOP DISCONNECT FLOWPATH
- NON-ROOFTOP DISCONNECT AREA
- PROPOSED DRIVEWAY PAVING
- PROPOSED PERIMETER TREE (SEE SHEET 2)



**SIDE ELEVATION**



**HOUSE FOOTPRINT**  
SCALE: 1" = 20'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION **AW** 7/21/13 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT **EB** 7/23/13 DATE

DIRECTOR **Mark K. Coyle** 7/25/13 DATE

PERMIT INFORMATION CHART					
SUBDIVISION NAME:	SECTION/AREA:	LOT/PARCEL #	TAX MAP NO.	ELECTION DISTRICT	CENSUS TRACT
CLEVENGER PROPERTY	NA	PARCEL 908	47	6	6069.02
PLAT No.	GRID No.	ZONE	TAX MAP NO.	ELECTION DISTRICT	CENSUS TRACT
N/A	05	R-20	47	6	6069.02

**BENCHMARK ENGINEERING, INC.**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-8644  
60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
(P) 301-371-3205 (F) 301-371-3206  
WWW.BE-CIVILENGINEERING.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. 28539, Expiration Date: 07-23-2013.

**STATE OF MARYLAND**  
BOARD OF PROFESSIONAL ENGINEERS  
6/19/2013

**CLEVENGER PROPERTY**  
PARCEL 908  
RESIDENTIAL

TAX MAP: 0047 GRID: 0005 PARCEL: 0908 ZONED: R-20  
SAVAGE GUILFORD ROAD ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

**SITE DEVELOPMENT AND GRADING PLAN**

DATE: JUL NE, 2013 BEI PROJECT NO: 2498  
SCALE: AS SHOWN SHEET 1 OF 3

DESIGN: DBT DRAWN: DBT

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF WORK

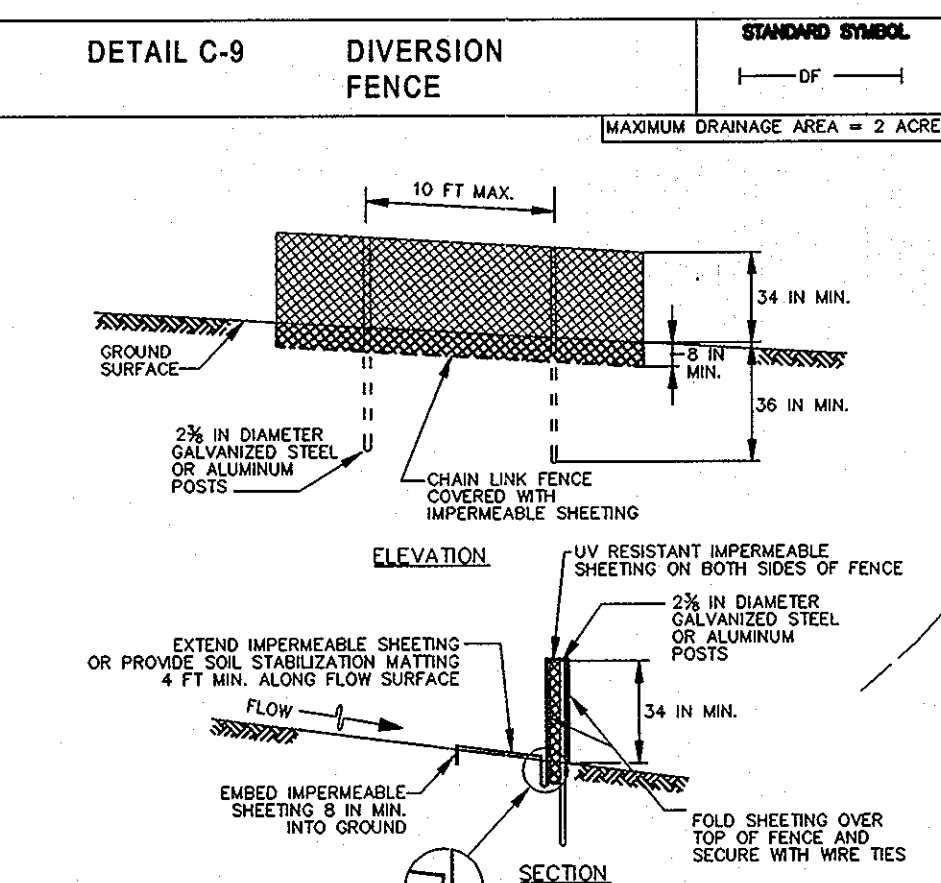
1. Obtain grading permit.
2. On-site Pre-Construction meeting.
3. Clear and Grub as necessary to install stabilized construction entrance and perimeter controls (diversion fences, super silt fences, temporary diversion pipe and stabilized construction entrance)
4. Upon approval from the Howard County sediment control inspector, proceed to clear and grub within the perimeter.
5. Excavate for foundation, pour and backfill.
6. Install water & sewer house connections.
7. Finish house construction
8. Install driveway. Install a temporary movable berm across the driveway and adjust temporary pipe to begin on low end of driveway at end of movable berm.
9. Final grade the lot ensuring the SWM disconnection lengths are met and stabilize in accordance with the permanent seedbed notes including erosion control matting within all swales as shown on the plan.
10. Install required perimeter trees.
11. Upon approval from the Howard County sediment control inspector, remove sediment control devices including the temporary pipe and stabilize any remaining disturbed areas.

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate <sup>1/</sup>		Seeding Depth <sup>2/</sup> (inches)	Recommended Seeding Dates by Plant Hardiness Zone <sup>3/</sup>		
	lb/ac	lb/1000 ft <sup>2</sup>		5b and 6a	6b	7a and 7b
<b>Cool-Season Grasses</b>						
Annual Ryegrass ( <i>Lolium perenne</i> sp. multiflorum)	40	1.0	0.5	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Barley ( <i>Hordeum vulgare</i> )	96	2.2	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Oats ( <i>Avena sativa</i> )	72	1.7	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Wheat ( <i>Triticum aestivum</i> )	120	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Cereal Rye ( <i>Secale cereale</i> )	112	2.8	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 1 to May 15; Aug 1 to Nov 15	Mar 1 to Apr 30; Aug 15 to Dec 15
<b>Warm-Season Grasses</b>						
Foxtail Millet ( <i>Setaria italica</i> )	30	0.7	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14
Pearl Millet ( <i>Pennisetum glaucum</i> )	20	0.5	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14

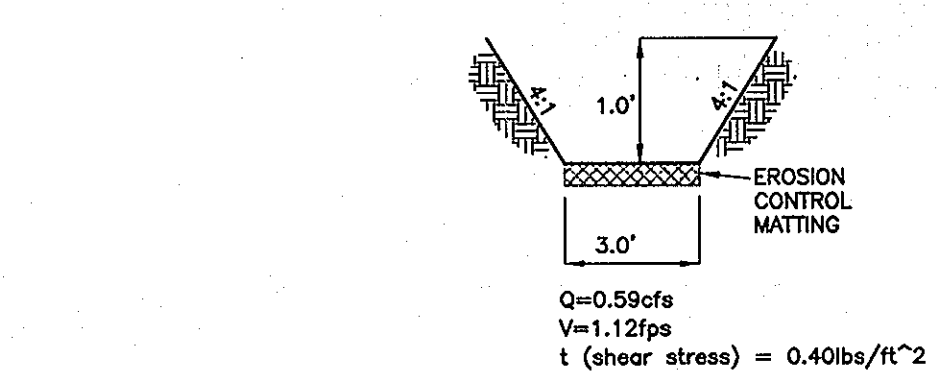
NOTES:  
 1/ Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.  
 Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/2 of the seeding rate listed above for barley, oats, and wheat. For small-seeded grasses (annual ryegrass, pearl millet, foxtail millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.  
 Oats are the recommended nurse crop for warm-season grasses.  
 2/ For sandy soils, plant seeds at twice the depth listed above.  
 3/ The planting dates listed are averages for each Zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.

B.20



- CONSTRUCTION SPECIFICATIONS
1. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 1/2 INCH MAXIMUM OPENING).
  2. USE 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTHS SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.
  3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
  4. SECURE 10 MIL OR THICKER UV RESISTANT IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
  5. EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED A MINIMUM OF 6 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
  6. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNWARD.
  7. KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL  
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



Q=0.58cfs  
 V=1.12fps  
 t (shear stress) = 0.40lbs/ft<sup>2</sup>

DEVELOPER'S/OWNER'S LANDSCAPE CERTIFICATE  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.  
 Mike Clevenger  
 6/24/13  
 DATE

SCHEDULE A PERIMETER LANDSCAPE EDGE

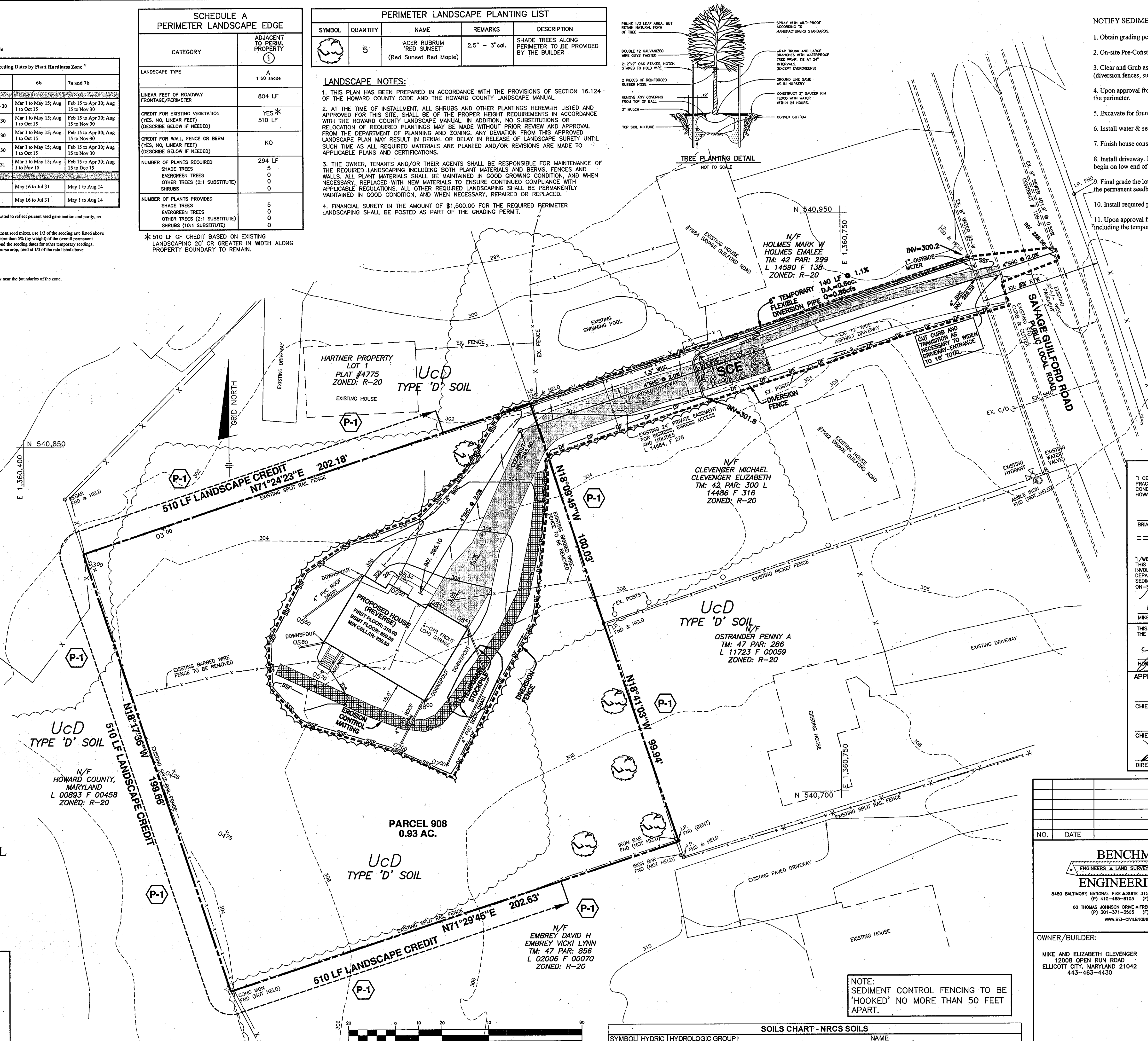
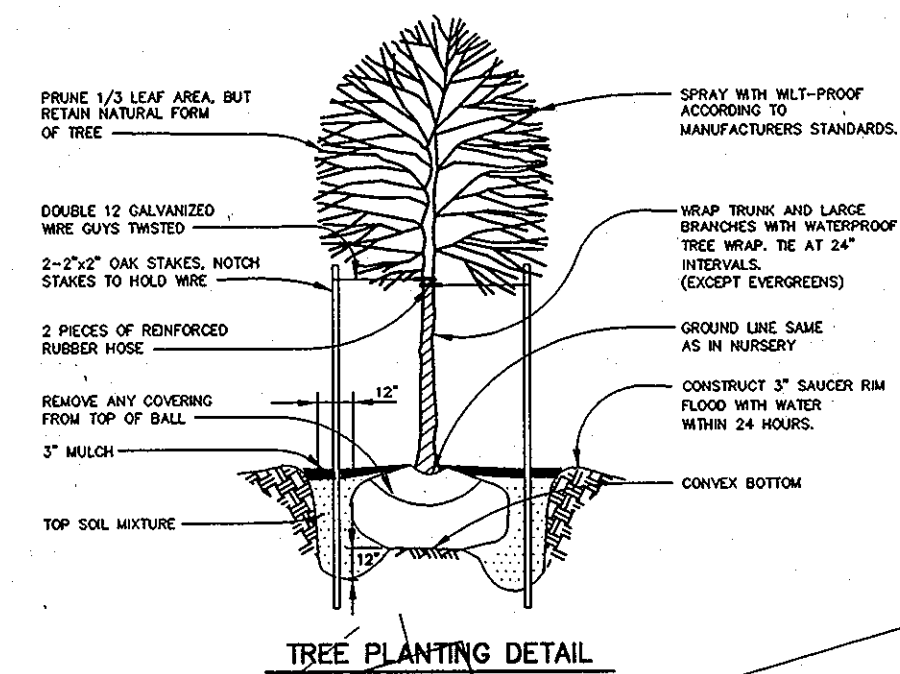
CATEGORY	ADJACENT TO PERIM. PROPERTY
LANDSCAPE TYPE	A 1:60 slope
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	804 LF
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES * 510 LF
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO
NUMBER OF PLANTS REQUIRED	294 LF
SHADE TREES	5
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTE)	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED	5
SHADE TREES	0
EVERGREEN TREES	0
OTHER TREES (2:1 SUBSTITUTE)	0
SHRUBS (10:1 SUBSTITUTE)	0

PERIMETER LANDSCAPE PLANTING LIST

SYMBOL	QUANTITY	NAME	REMARKS	DESCRIPTION
	5	ACER RUBRUM 'RED SUNSET' (Red Sunset Red Maple)	2.5" - 3" cal.	SHADE TREES ALONG PERIMETER TO BE PROVIDED BY THE BUILDER

- LANDSCAPE NOTES:
1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
  2. AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
  3. THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
  4. FINANCIAL SURETY IN THE AMOUNT OF \$1,500.00 FOR THE REQUIRED PERIMETER LANDSCAPING SHALL BE POSTED AS PART OF THE GRADING PERMIT.

\* 510 LF OF CREDIT BASED ON EXISTING LANDSCAPING 20' OR GREATER IN WIDTH ALONG PROPERTY BOUNDARY TO REMAIN.



LEGEND

	EXISTING TREELINE
	PROPOSED TREELINE
	PROJECT BOUNDARY
	PROPOSED DRIVEWAY PAVING
	LIMIT OF DISTURBANCE
	SUPER SILT FENCE
	DIVERSION FENCE
	EROSION CONTROL MATTING
	STABILIZED CONSTRUCTION ENTRANCE

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.  
 Brian F. Cleary  
 6/19/2013  
 DATE

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 BE 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.  
 Mike Clevenger  
 6/24/13  
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 John P. Robertson  
 7/2/13  
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division  
 7/2/13  
 DATE

Chief, Division of Land Development  
 7/23/13  
 DATE

Mark McGehee  
 7/2/13  
 DATE

SOILS CHART - NRCS SOILS

SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
UCB	NO	D	URBAN LAND- CHILLUM-BELTSVILLE COMPLEX, 0 TO 5 PERCENT SLOPES

NOTE: SEDIMENT CONTROL FENCING TO BE 'HOOKED' NO MORE THAN 50 FEET APART.

NO. DATE REVISION

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6444  
 60 THOMAS JOHNSON DRIVE A FREDERICK, MARYLAND 21702  
 (P) 301-371-3655 (F) 301-371-3606  
 WWW.BEI-CIVILENGINEERING.COM

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer or land surveyor in the State of Maryland, License No. 202-2013.

OWNER/BUILDER:  
 MIKE AND ELIZABETH CLEVENGER  
 12008 OPEN RUN ROAD  
 ELLICOTT CITY, MARYLAND 21042  
 443-463-4430

**CLEVENGER PROPERTY**  
 PARCEL 908  
 RESIDENTIAL  
 TAX MAP: 0047 GRID: 0005 PARCEL: 0908 ZONED: R-20  
 SAVAGE GULFORD ROAD ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND

SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN

DATE: JUNE, 2013 BEI PROJECT NO: 2498  
 SCALE: AS SHOWN SHEET 2 OF 3

