

LAYOUT 6/26/2012 INSP 4 _____
 INSP 2 7/2/2012 INSP 5 _____
 INSP 3 7/6/2012 INSP 6 _____

ISSUE DATE: 6/4/12

P 537323

APPROVAL DATE: 7/11/2012

A 524041

PERMIT

Tax ID # 04-331443

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

Farm & Home Excavating, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 901 Driver Rd PHONE NUMBER: 410-442-2139

SUBDIVISION: Judd Property LOT NUMBER: 16

ADDRESS: 14680 Dorsey Mill Road PROPERTY OWNER: Helen and Richard Judd

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

PUMP CHAMBER CAPACITY (GALLONS): _____ COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4 APPLICATION RATE: 1.2

SQUARE FOOTAGE OF HOUSE: >3500

LINEAR FEET OF TRENCH REQUIRED: 167'

TRENCHES:	Trenches to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 5.0 feet below original grade with 2.0 feet of stone below distribution pipe.
LOCATION:	Set septic tank per layout inspection. Set distribution per layout inspection. Install 167 feet of trench on contour per layout inspection.
NOTES:	Do not order the septic tank until after layout inspection and Sanitarian approval. Stake 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: Dana Bernard/Sara Sappington DATE: 08/03/11

- 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

See As-Built Drawing
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2'-2.5' BOTTOM 5'

NUMBER OF TRENCHES 3

TOTAL LENGTH 168'

ABSORPTION AREA 504+Sidewall

DISTRIBUTION BOX LEVEL Levelers

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC Top

TANK LID DEPTH 0.5-2.5'

BAFFLES Yes

BAFFLE FILTER No

MANHOLE LOC Front

6" PORT LOC Rear

WATERTIGHT TEST No

SLOTTED Yes

DATE ON LID 5/20/2012

~~RUMP/SEPTIC TANK LEVEL N/A~~

~~MANUFACTURER~~

~~CAPACITY GAL~~

~~SEAM LOC~~

~~TANK LID DEPTH~~

~~BAFFLES~~

~~BAFFLE FILTER~~

~~MANHOLE LOC~~

~~6" PORT LOC~~

~~WATERTIGHT TEST~~

~~SLOTTED~~

~~DATE ON LID~~

PRE-CONSTRUCTION:

6/26/2012 Perc. test notes missing, I install a 40, 60' and 70' trench on contour across the top of the easement. Set the tank and distribution box close to where they are shown on the B.P. plan. (BB)

INSTALLATION:

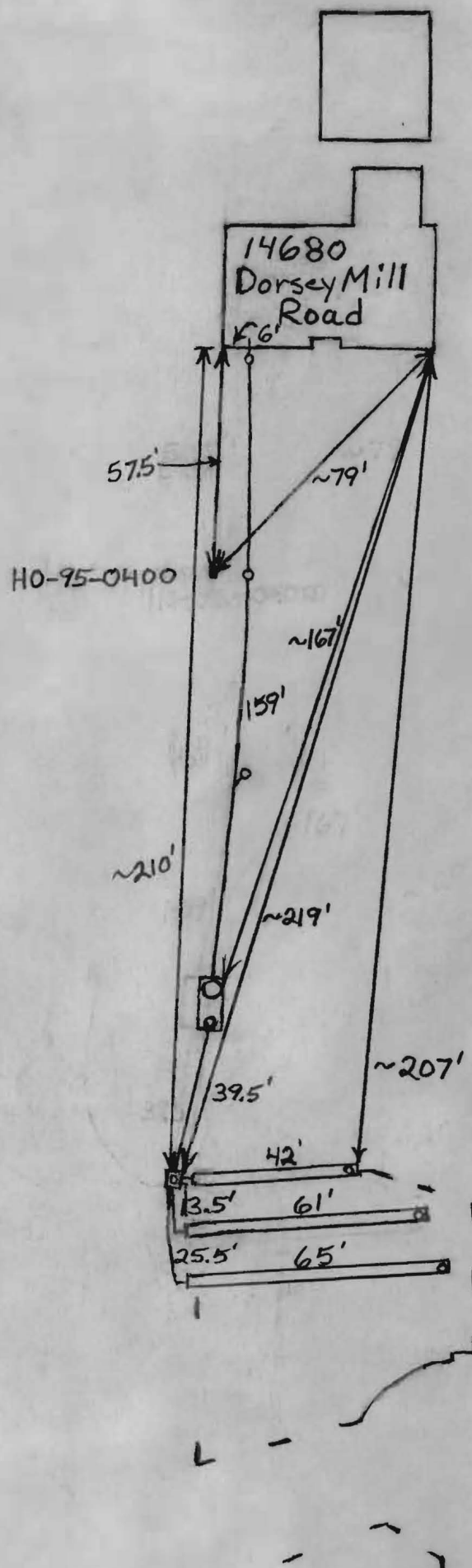
7/2/2012 House connection made. Tank and dist. box installed. (BB)

7/6/2012 Top two trenches finished. (BB)

7/11/2012 System finished. O.K. to backfill. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 7/11/2012



THIS LOT DOES NOT APPEAR TO LIE WITHIN THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE F.E.M.A. FLOOD HAZARD MAP 240044-0020-B AS REVISED DECEMBER 4, 1986.

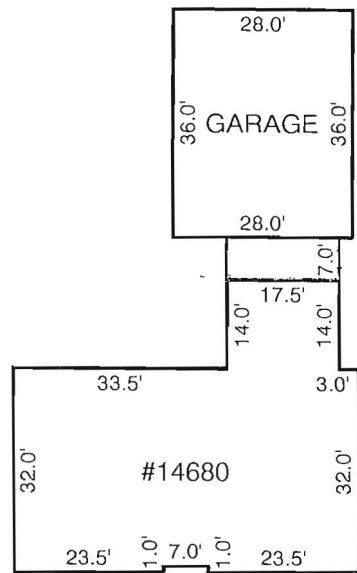
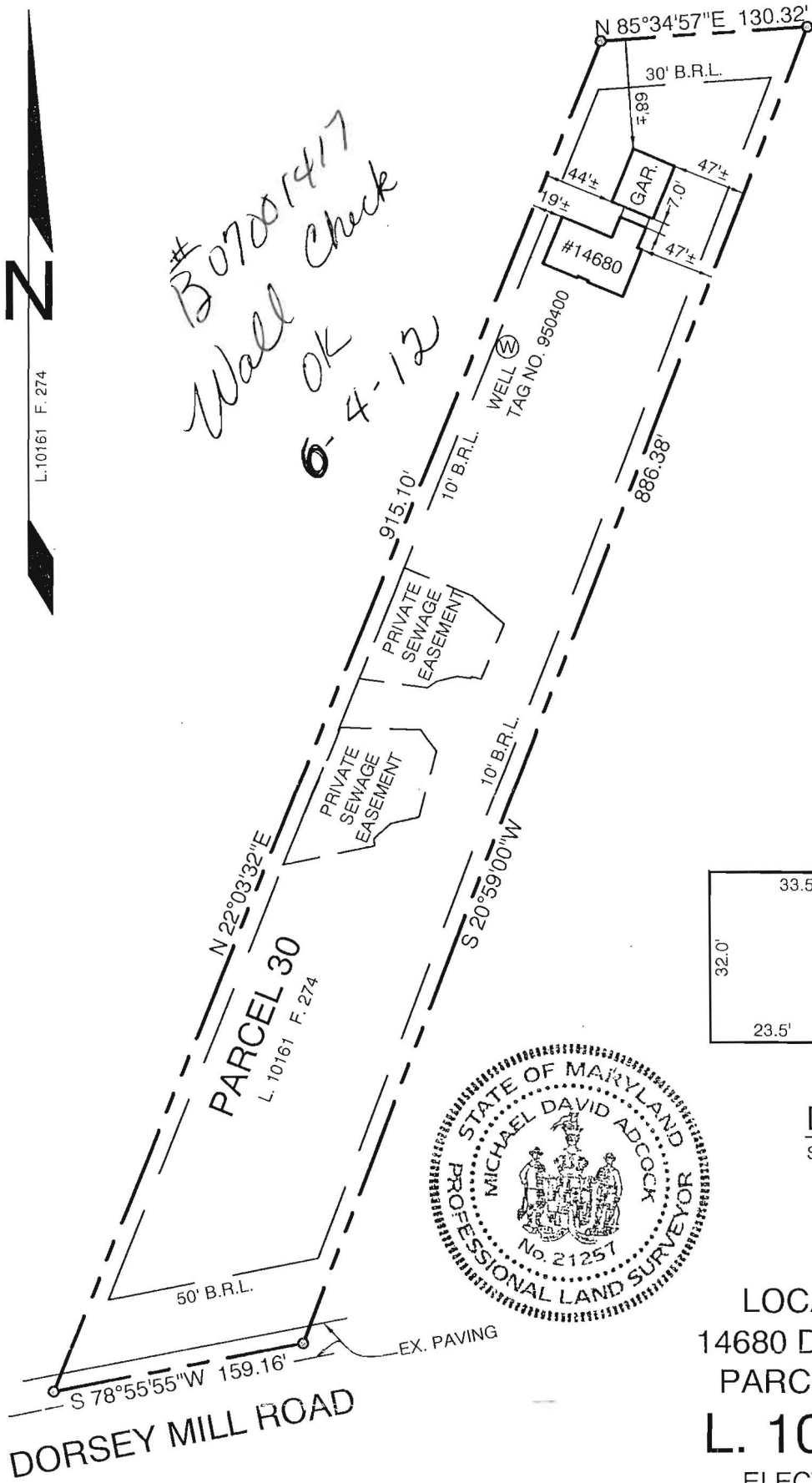
WALL CHECK: 08-12-11
TOP OF WALL ELEV.= 513.5'

NOTES:

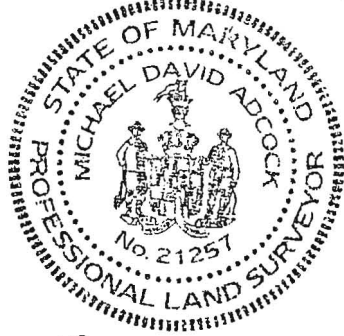
1. THIS PLAT IS A BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING PURPOSES. THIS PLAT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE STRUCTURES. THIS PLAT DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR FOR SECURING FINANCING OR REFINANCING.
2. THE +/- SETBACK ACCURACY IS 1 FOOT.
3. THIS PLAN OR PLAT IS NOT INTENDED TO SHOW ALL MATTERS RELATED TO THE PROPERTY SHOWN HEREON.



*# B07001417
Wall check
OK
6-4-12*



DETAIL
SCALE: 1"=30'



LOCATION DRAWING
14680 DORSEY MILL ROAD
PARCEL 30, TAX MAP 21
L. 10161 F. 274
ELECTION DISTRICT NO. 4
HOWARD COUNTY, MARYLAND

CERTIFICATION

I HEREBY CERTIFY THAT I WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS LOCATION DRAWING AND THE SURVEY WORK REFLECTED IN IT, IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN THE CODE OF MARYLAND TITLE 9, SUBTITLE 13, CHAPTER 06, REGULATION 12, AND THE POSITION OF EXISTING IMPROVEMENTS AS SHOWN HEREON, ARE CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Michael D. Adcock
MICHAEL D. ADCOCK
PROFESSIONAL LAND SURVEYOR
NO. 21257, EXPIRATION DATE: 06-16-2013

**Sill · Adcock &
Associates · LLC**

Engineers · Surveyors · Planners

3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: mike@saaland.com

REFERENCE:

L. 10161 F. 274

DATE:

AUGUST 15, 2011

SCALE:

1"=100'

FILE NO.:

11-042

STORMWATER MANAGEMENT BASE DATA

Site Area	113,221 SF	2.60 Ac
Proposed Disconnected Disturbed Area (LOD)	12,354	0.28
Rooftop Disconnected Area	2,784	0.06
Non-Rooftop Impervious	9,570	0.22
Total Proposed Impervious Area	12,354	0.28 Ac.
Predominant Soil Type	Manor, Glenieg	
SCS Hydrologic Soil Group	B	

Dry Well Computation
 40 CF Storage / 500 SF of Rooftop

Dry Well 'A'
 $\frac{1,348 \text{ SF}}{500 \text{ SF}} \times \frac{40 \text{ CF}}{0.4} = 2.7 \times 100 = 270 \text{ CF}$
 2 Dry Well 5' x 5' x 5.4'

Dry Well 'B'
 $\frac{1,008 \text{ SF}}{500 \text{ SF}} \times \frac{40 \text{ CF}}{0.4} = 2.0 \times 100 = 200 \text{ CF}$
 2 Dry Well 5' x 4' x 5'

Bioretention System

Water Quality Volume (WQv)

1a. Volumetric Runoff Coefficient (Rv)
 $Rv = 0.05 + (0.009)(1) = 0.05 + (0.009)(10.9) = 0.05 + 0.981 = 0.148$

1b. Eastern Rainfall Zone, P = 1"

1c. Water Quality Volume (WQv)
 $WQv = (P)(Rv)(A) / 12 = (1)(0.15)(2.6) / 12 = 0.39 / 12 = 0.0325 \text{ Ac Ft} = 1,415.7 \text{ cf}$

Check Minimum
 $WQv = (P)(A) / 12 = (0.2)(2.6) / 12 = 0.0433 \text{ Ac Ft} = 1,887.6 \text{ cf}$

Use WQv = 1,887.6 cf

2. Recharge Volume (Rev)
 $Rev = (S)(Rv)(A) / 12 = (0.26)(0.15)(2.6) / 12 = 0.10 / 12 = 0.0084 \text{ Ac. Ft} = 368.1 \text{ CF}$

3. 75% Temporary Detention
 $V_{Temp} = (0.75)(WQv) = (0.75)(1,887.6) = 1,415.7 \text{ cf}$

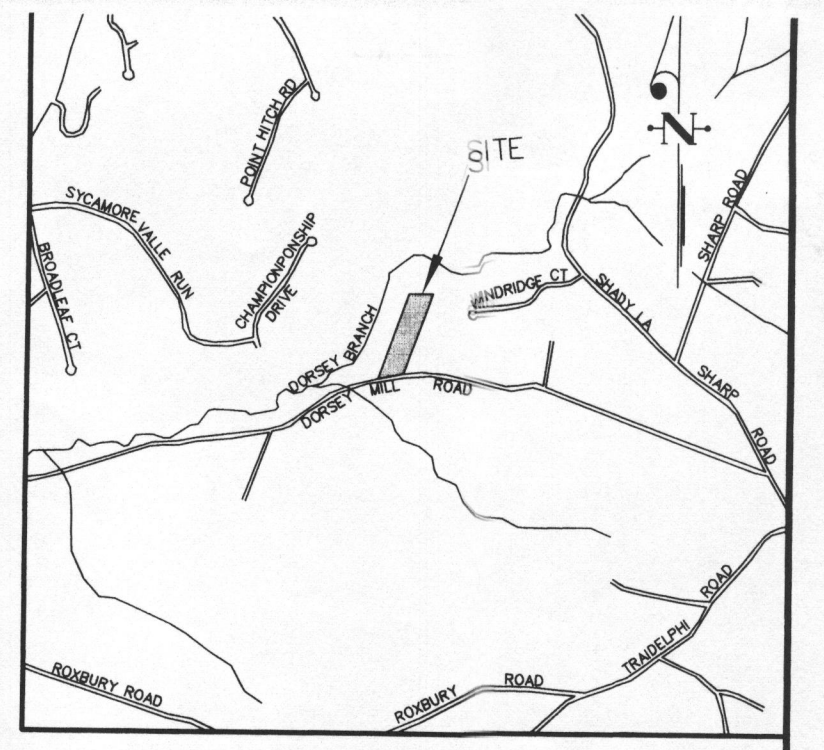
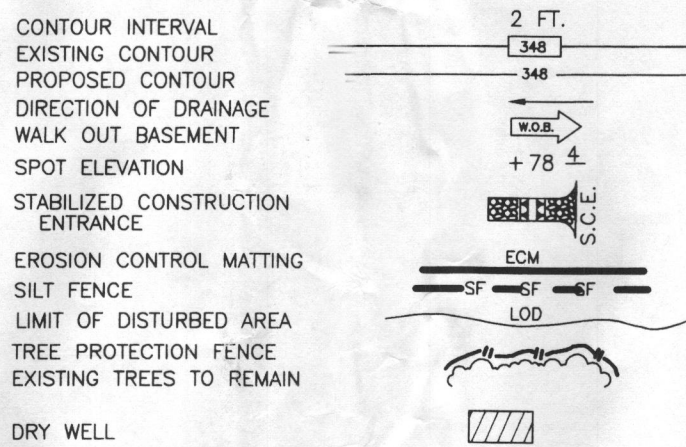
4. Surface Area
 Filter Bed Depth: 2.0 Ft.
 Coefficient of Permeability: 0.5 FL/Day
 Depth of Water Above Filter Bed: 0.5 Ft.
 Filter Bed Drain Time: 2.0 Days

$Af = \frac{(1,887.6)(2.0)}{(0.5)(0.5 + 2.0)(2.0)} = \frac{3775.2}{2.5} = 1,510.1 \text{ SF}$

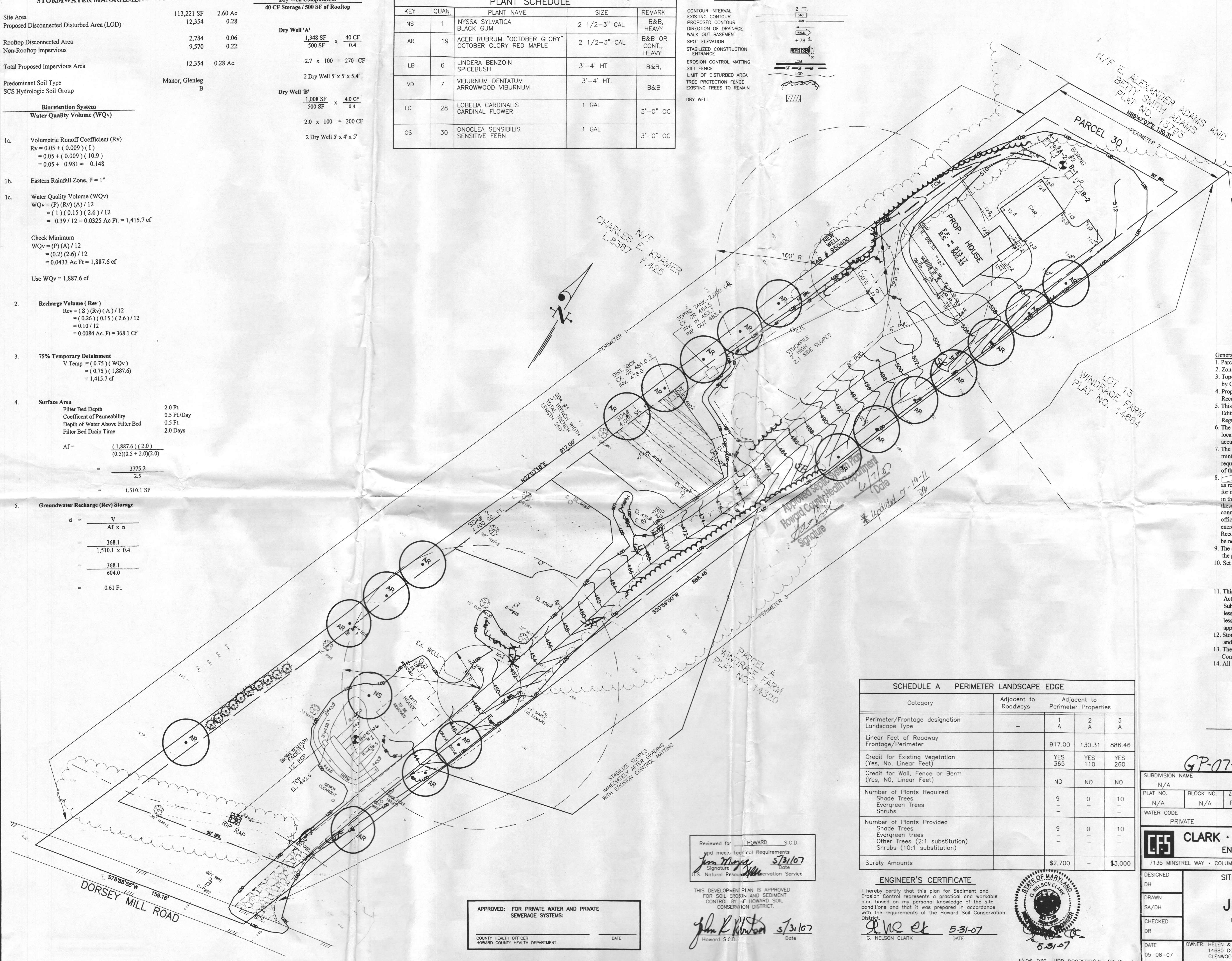
5. Groundwater Recharge (Rev) Storage
 $d = \frac{V}{Af \times n} = \frac{368.1}{1,510.1 \times 0.4} = \frac{368.1}{604.0} = 0.61 \text{ Ft.}$

PLANT SCHEDULE

KEY	QUAN.	PLANT NAME	SIZE	REMARK
NS	1	NYSSA SYLVATICA BLACK GUM	2 1/2-3" CAL	B&B, HEAVY
AR	19	ACER RUBRUM "OCTOBER GLORY" OCTOBER GLORY RED MAPLE	2 1/2-3" CAL	B&B OR CONT., HEAVY
LB	6	LINDERA BENZOIN SPICEBUSH	3'-4' HT	B&B,
VD	7	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	3'-4' HT.	B&B
LC	28	LOBELIA CARDINALIS CARDINAL FLOWER	1 GAL	3'-0" OC
OS	30	ONOCLEA SENSIBILIS SENSITIVE FERN	1 GAL	3'-0" OC



VICINITY MAP
 SCALE: 1" = 2000'



- General Notes**
- Parcel Size: 113,221 SF (2.60 Ac) RR-DEO
 - Zoning per 2-2-04 Comprehensive Zoning Plan
 - Topography indicated is field run survey by Clark, Finerock & Sackett, October 16, 2006
 - Property Identification-Tax Map 21, Grid 16, Parcel 30, Recorded at L10161, F 274
 - This plan is subject to the Amended 5th Edition of the Subdivision and Land Development Regulations.
 - The existing well shown on the plan has been Field located by Clark, Finerock & Sackett and is accurately shown.
 - The parcel indicated complies with the minimum ownership width and lot area as required by the Maryland State Department of the Environment.
 - This area designated a private sewage reserve as required by the Maryland State Department of the Environment for individual sewage disposal. Improvements of any nature in the area are restricted until public sewage is available. These easements shall be in full force and effect upon connection to a public sewage system. The county health officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall be necessary.
 - The are no existing 100 year flood plans located on the property.
 - Set back requirements: Front 50', Side 10', Rear 30'
 - This development is exempt from the Forest Conservation Act Requirements under 16.1202 (b) (2) (i) & (b) of the Subdivision and Land Development Regulations - development less of an existing lot where the total cutting, clearing, or grading is less than 40,000 SF and the parcel is not subject to a previously approved Forest Conservation Plan.
 - Stormwater Management is provided through roof top disconnect and non-disconnect methods using swales, dry wells, and Bioretention.
 - The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410)313-1880 at least 5 days prior to start of work.
 - All impervious runoff shall be directed to the bioretention facility.

SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties		
		1	2	3
Perimeter/Frontage designation	-	A	A	A
Linear Feet of Roadway Frontage/Perimeter	917.00	130.31	886.46	
Credit for Existing Vegetation (Yes, No, Linear Feet)	YES 365	YES 110	YES 260	
Credit for Wall, Fence or Berm (Yes, NO, Linear Feet)	NO	NO	NO	
Number of Plants Required				
Shade Trees	9	0	10	
Evergreen Trees	-	-	-	
Shrubs	-	-	-	
Number of Plants Provided				
Shade Trees	9	0	10	
Evergreen trees	-	-	-	
Other Trees (2:1 substitution)	-	-	-	
Shrubs (10:1 substitution)	-	-	-	
Surety Amounts	\$2,700	-	\$3,000	

OWNER / DEVELOPER
 HELEN & RICHARD JUDD
 14680 DORSEY MILL RD.
 GLENWOOD, MD 21738

GP-07-68

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
N/A	N/A	PARCEL 30
PLAT NO.	BLOCK NO.	ZONE
N/A	N/A	RR-DEO
TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
21	4TH	
WATER CODE	SEWER CODE	
PRIVATE	PRIVATE	

CLARK · FINEFROCK & SACKETT, INC.
 ENGINEERS · PLANNERS · SURVEYORS
 7135 MINSTREL WAY · COLUMBIA, MD 21045 · (410) 381-7500 BALT. · (301) 621-8100 WASH.

DESIGNED	SITE DEVELOPMENT PLAN, SEDIMENT AND EROSION CONTROL PLAN PARCEL 30 JUDD PROPERTY PARCEL 30, TAX MAP 21, GRID 16 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE
DRAWN		1" = 30'
SA/DH		DRAWING
CHECKED		1 of 2
DR		JOB NO.
DATE	OWNER: HELEN & RICHARD JUDD 14680 DORSEY MILL RD. GLENWOOD, MD 21738	FILE NO.
05-08-07		06-039

Reviewed for HOWARD S.C.D.
 and meets Technical Requirements
 Signature: *John M. ...* Date: 5/31/07
 U.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY: H.C. HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John R. ...* Date: 5/31/07
 Howard S.C.D.

ENGINEER'S CERTIFICATE
 I hereby 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.
 Signature: *G. Nelson Clark* Date: 5-31-07
 G. NELSON CLARK



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS:
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS DESIRED.

SEEDING 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:

- Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/100 sq.ft.) and 800 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.).
- Acceptable-Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs/1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre 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 31 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 after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas on slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

SEEDING 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. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 1 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq.ft.). For the period November 1 thru February 28, protect site by applying 2 tons per 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 per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor the subsoil in excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

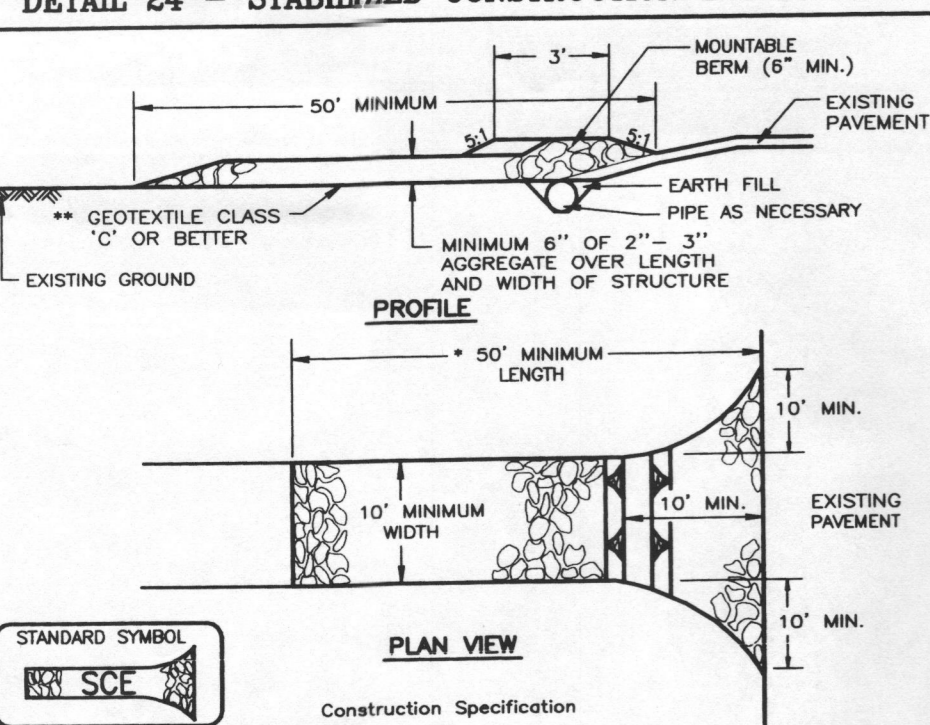
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 - 7 calendar days for all perimeter sediment control structures, dikes, sediment basins and slope slopes greater than 3:1
 - 14 days as to all other disturbed or graded areas on the project site.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol.1, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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 seedings, sod, temporary seeding and mulching (Sec. G).
 - Temporary stabilization with mulch alone can only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
 - 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.
 - SITE ANALYSIS:

Total Area of Site:	2.6 Acres
Area Disturbed:	0.8 Acres
Area to be seeded or paved:	0.3 Acres
Area to be vegetatively stabilized:	0.5 Acres
Total Cut:	122.5 CF
Total Fill:	122.5 CF
Offsite Waste/Borrow Area Location:	*
 - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the Howard County DSW Sediment Control Inspector.
 - 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.
 - Trenches for the construction of utilities shall be backfilled and stabilized within one working day, or is limited to three pipe lengths.
 - The total amount of earth dike = 0 LF
 - The total amount of super silt fence = 55 LF
 - The total amount of super diversion fence = 0 LF
- * It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

CONSTRUCTION SEQUENCE:

	NO. OF DAYS
1. Obtain grading permit.	7
2. Initial line protection fence.	7
3. Initial sediment and erosion control devices and stabilize.	14
4. Excavate for foundations, rough grade and temporarily stabilize.	30
5. Construct building, and driveway.	120
6. Final grade, install Erosion Control Matting and stabilize in accordance with standards and specifications.	14
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

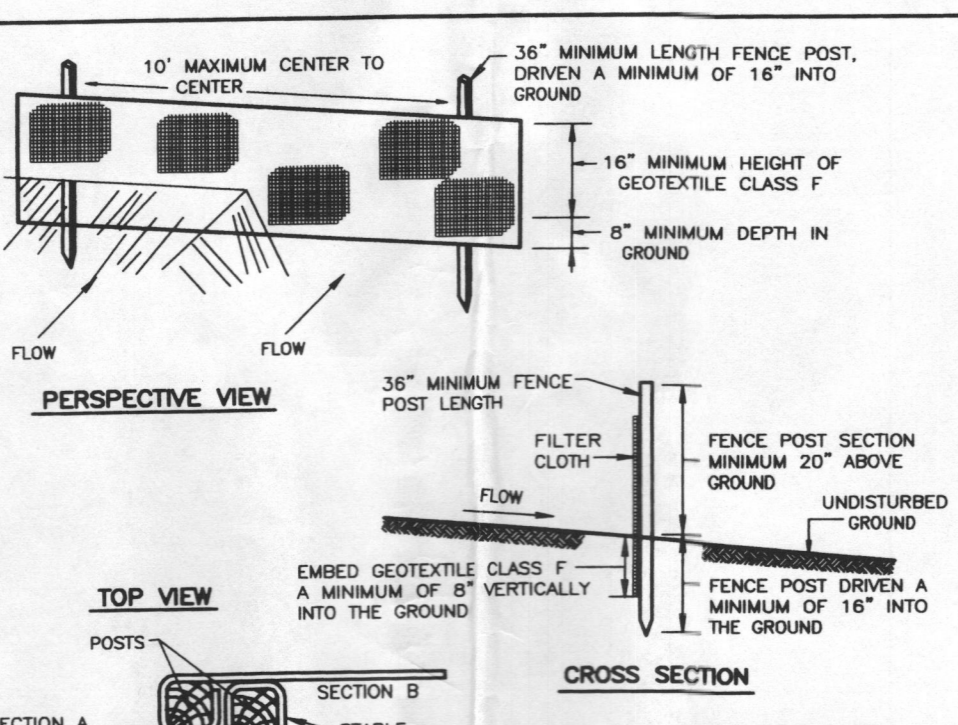
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Length - minimum of 50' (4' 30" for a single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey, a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-11-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE

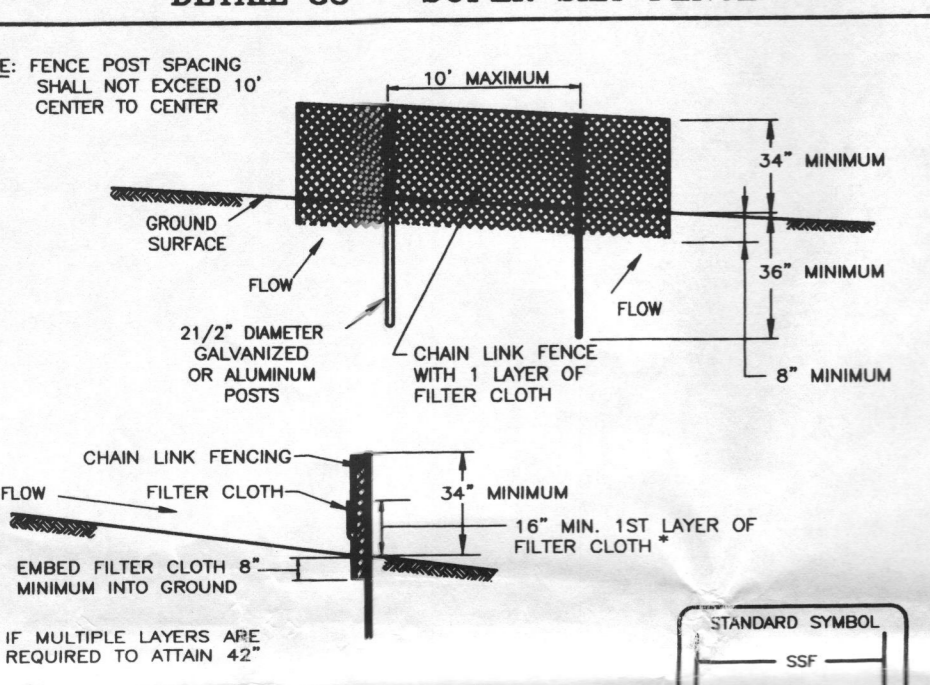


- Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft/minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE

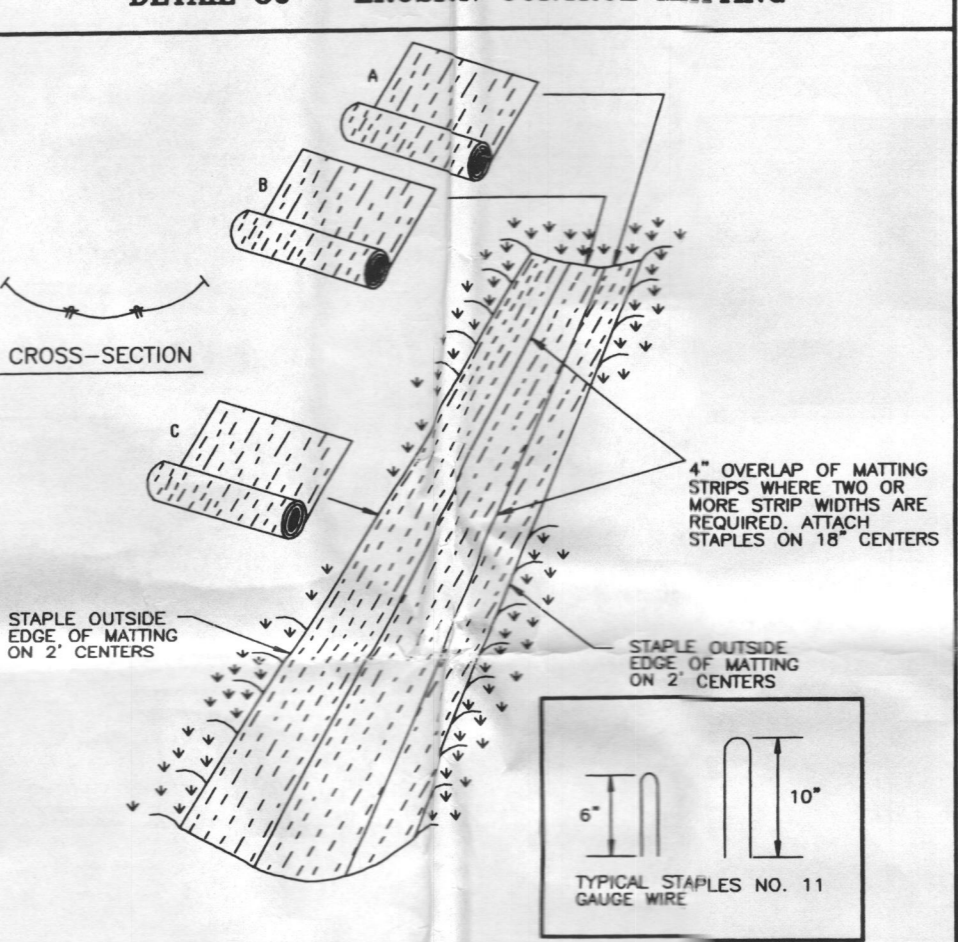


- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire trace and brass rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft/minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

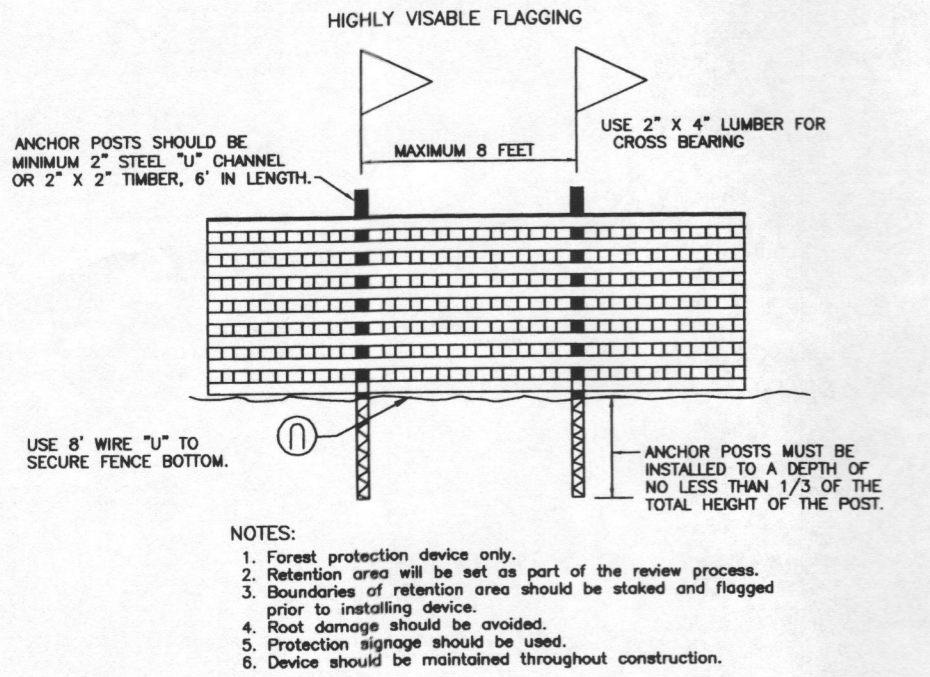
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-22-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 30 - EROSION CONTROL MATTING



- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth, located in the trench and tamping firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
 - Staple the 4" overlap in the channel center using an 18" spacing between staples.
 - Before stapling the outer edges of the matting, make sure the matting lies smooth and in firm contact with the soil.
 - Staples shall be placed 2" apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
 - Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", ship lap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
 - The discharge end of the matting line should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area affected by the flow must be key-in.

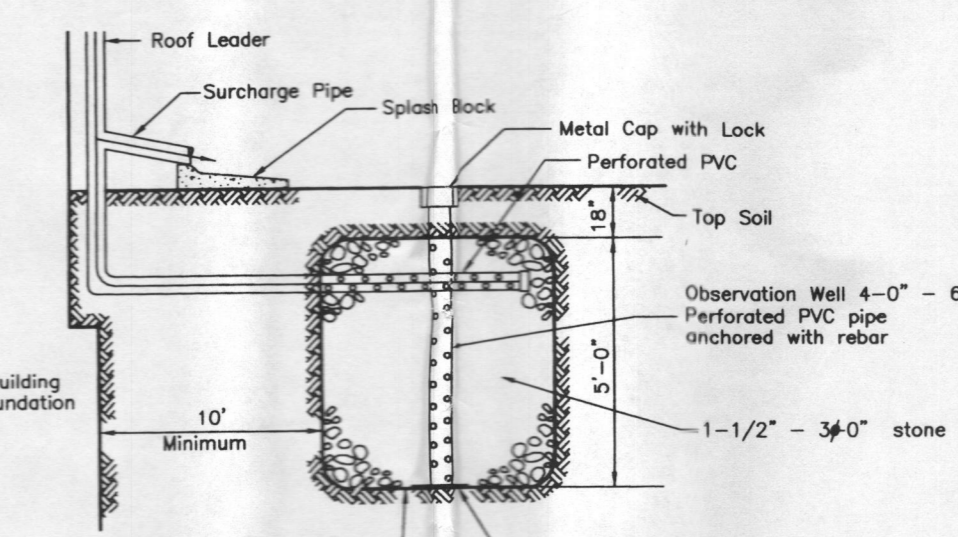
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



- Forest protection device only.
- Retention area will be set as part of the review process.
- Boundaries of retention area should be staked and flagged prior to installing device.
- Root damage should be avoided.
- Protection signage should be used.
- Devices should be maintained throughout construction.

BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL

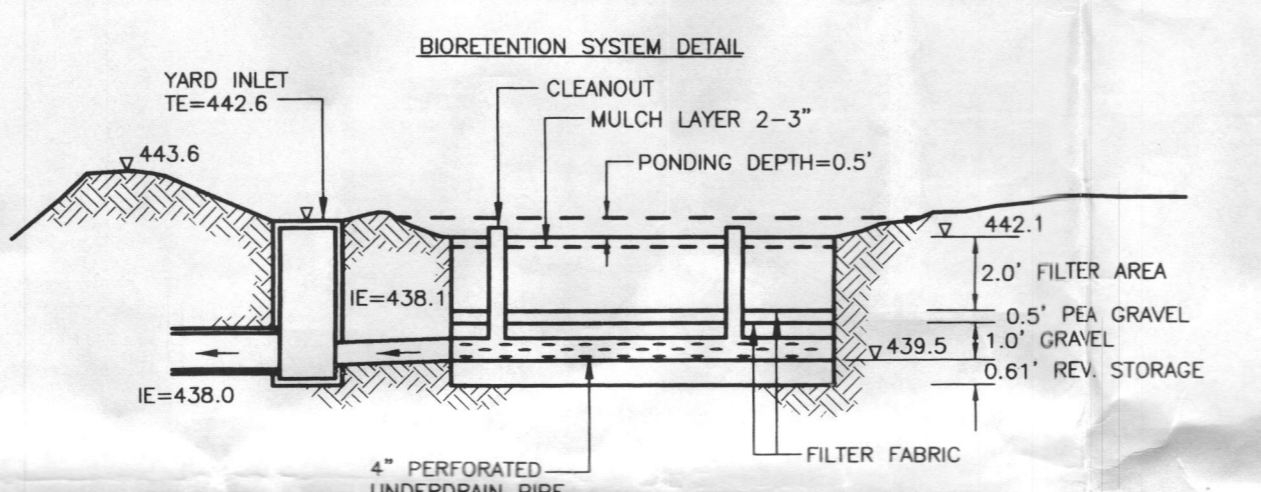
NO SCALE



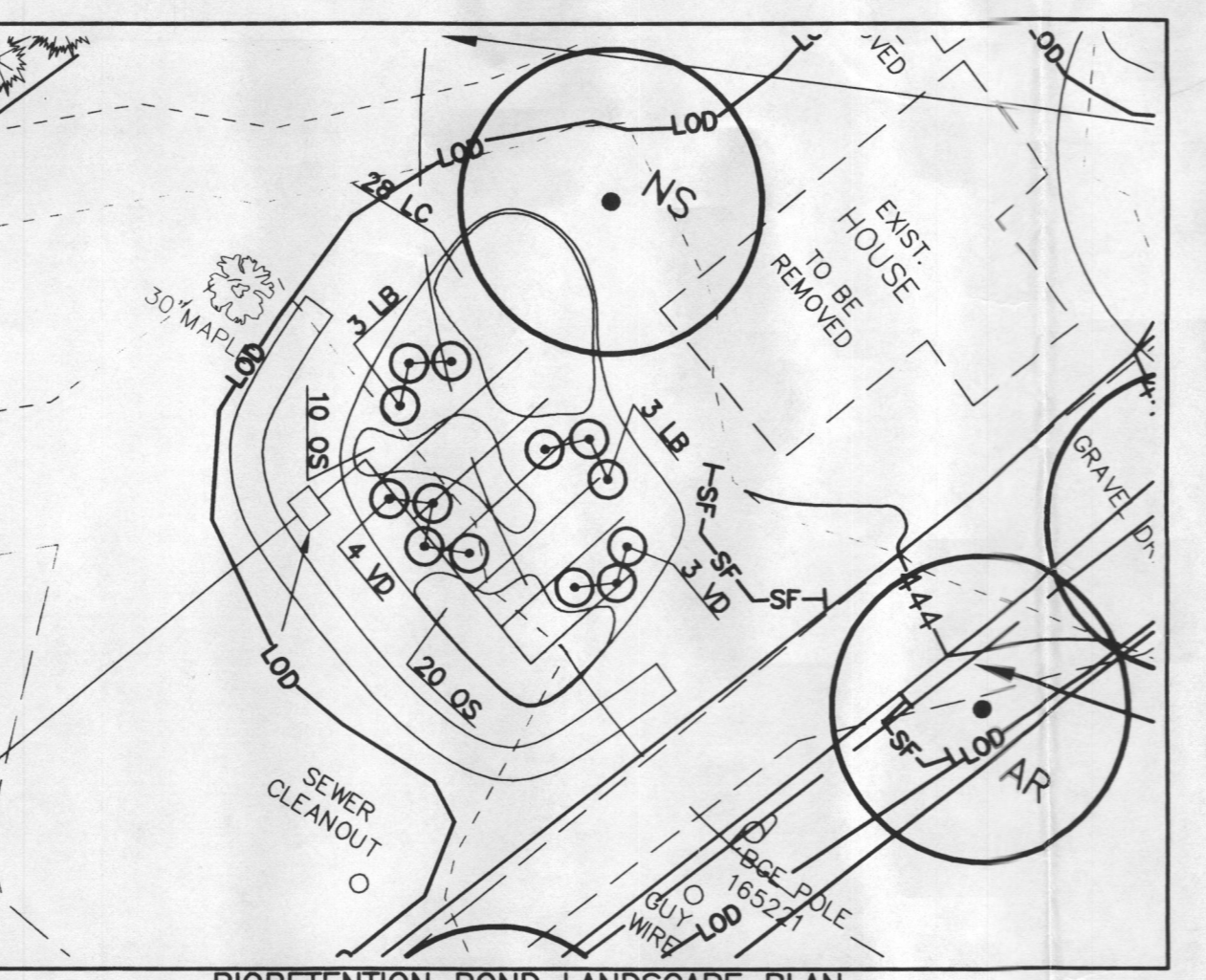
TYPICAL DRY WELL CROSS SECTION

NOT TO SCALE

No.	AREA SQ.FT.	VOL. REQ. CF.	LENGTH	WIDTH	DEPTH	BOTTOM ELEV.
1 AND 2	1,348	133	5'	5'	5'-4"	505.6
1 AND 2	1,008	100	4'	5'	5'	507.5



- REMOVE AND REPLACE MULCH LAYER WHEN FILTERING CAPACITY IS SUBSTANTIALLY REDUCED (WHEN WATER POUNDS ON SURFACE OF FILTER FOR MORE THAN 72 HOURS).
- REPLACE DEAD OR DISEASED PLANT MATERIAL AS NECESSARY. REMULCH ANNUALLY.
- GRASS AREAS TO BE MOWED TO MAINTAIN MAXIMUM GRASS HEIGHT OF LESS THAN 12 INCHES.



BIORETENTION POND LANDSCAPE PLAN SCALE 1"=20'

Reviewed for HOWARD S.C.D. and meets Technical Requirements. Signature: John Meyer Date: 5/31/07 U.S. Natural Resource Conservation Service

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

Signature: John K. Robertson Date: 5/31/07 Howard S.C.D.

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan of development and 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 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 or their authorized agents, as are deemed necessary.

Signature: Alan Judd Date: 5/31/07

ENGINEER'S CERTIFICATE

I hereby 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.

Signature: G. Nelson Clark Date: 5-31-07

CLARK · FINEFROCK & SACKETT, INC. ENGINEERS · PLANNERS · SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.

DESIGNED	SCALE
DH	1" = 30'
DRAWN	DRAWING
SA/DH	2 of 2
CHECKED	JOB NO.
DR	06-039
DATE	OWNER: RICHARD JUDD
05-08-07	1450 DORSEY MILL ROAD
	GLANWOOD, MD, 21788

SITE DEVELOPMENT PLAN, SEDIMENT AND EROSION CONTROL PLAN PARCEL 30 Judd Property PARCEL 30, TAX MAP 21, GRID 16 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

