

Building Address: 13578 MITCHELLS WAY  
WEST FRIENDSHIP MD. 21794

Suite/Apt. # \_\_\_\_\_ SDP/WP/BA #: \_\_\_\_\_

Census Tract: \_\_\_\_\_ Subdivision: CLOVERFIELD

Section: \_\_\_\_\_ Area: \_\_\_\_\_ Lot: 13

Tax Map: 15 Parcel: \_\_\_\_\_ Grid: 8

Zoning: \_\_\_\_\_ Map Coordinates: \_\_\_\_\_ Lot Size: 53,259  
54 FT

Existing Use: VACANT LOT

Proposed Use: SFD

Estimated Construction Cost: \$ 300,000

Description of Work: CONSTRUCT SFD w/ 3 1/2 BATHS  
4 BEDROOMS. VINYL & STON EXTENSION

Occupant or Tenant: N/A

Was tenant space previously occupied?  Yes  No

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Property Owner's Name: PFEFFERKORN LLC

Address: 1175 STRATFIELD CT.

City: MARLIOTTSVILLE State: MD Zip Code: 21104

Home Phone: \_\_\_\_\_ Work Phone: 410 442-22

Applicant's Name & Mailing Address, (If other than stated herein):  
SAME

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Contractor Company: CATONSVILLE HOMES LLC

Contact Person: FRANK POTEPAN

Address: 1175 STRATFIELD CT

City: MARLIOTTSVILLE State: MD Zip Code: 21104

License No.: 4990

Phone: 410 442 2211 Fax: \_\_\_\_\_

Email: FPOTEPAN@CATONSVILLEHOMES.COM

Engineer/Architect Company: PLYMOUTH ROAD ARCHITECTS

Responsible Design Prof.: TIM GRAHAM

Address: 640 PLYMOUTH RD.

City: BALTIMORE State: MD Zip Code: 21229

Phone: 410-788-0281 Fax: \_\_\_\_\_

Email: \_\_\_\_\_

BUILDING DESCRIPTION - COMMERCIAL	
Building Characteristics	Utilities
Height:	<u>Water Supply</u>
No. of stories:	<input type="checkbox"/> Public
Gross area, sq. ft./floor:	<input type="checkbox"/> Private
Area of construction (sq. ft.):	<u>Sewage Disposal</u>
Use group:	<input type="checkbox"/> Public
	<input type="checkbox"/> Private
<u>Construction type:</u>	<u>Heating System</u>
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Electric <input type="checkbox"/> Oil
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas
<input type="checkbox"/> Masonry	<u>Sprinkler System:</u>
<input type="checkbox"/> Wood Frame	<input type="checkbox"/> N/A
<input type="checkbox"/> State Certified Modular	<input type="checkbox"/> Full
<input checked="" type="checkbox"/> Roadside Tree Project Permit	<input type="checkbox"/> Partial
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Other Suppression
Roadside Tree Project Permit #	No. of Heads:

BUILDING DESCRIPTION - RESIDENTIAL	
Building Characteristics	Utilities
<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	<u>Water Supply</u>
<u>Depth</u> <u>Width</u>	<input type="checkbox"/> Public
1 <sup>st</sup> floor:	<input checked="" type="checkbox"/> Private
2 <sup>nd</sup> floor:	<u>Sewage Disposal</u>
Basement:	<input type="checkbox"/> Public
<input checked="" type="checkbox"/> Finished Basement	<input checked="" type="checkbox"/> Private
<input type="checkbox"/> Unfinished Basement	Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Crawl Space	Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Slab on Grade	<u>Heating System</u>
No. of Bedrooms: <u>4</u>	<input type="checkbox"/> Electric
<u>Multi-family Dwelling</u>	<input type="checkbox"/> Oil
No. of efficiency units:	<input checked="" type="checkbox"/> Natural Gas
No. of 1 BR units:	<input type="checkbox"/> Propane Gas
No. of 2 BR units:	
No. of 3 BR units:	
Other Structure:	
Dimensions:	
Footings:	<input checked="" type="checkbox"/> Roadside Tree Project Permit
Roof:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> State Certified Modular	Roadside Tree Project Permit #
<input type="checkbox"/> Manufactured Home	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: FRANK E. POTEPAN Print Name: FRANK E. POTEPAN

Email Address: FPOTEPAN@CATONSVILLEHOMES.COM Date: 2/22/13

Member Title/Company: \_\_\_\_\_

RECEIVED FEB 22 2013

GP# 613000057 LICENSING & PERMITS DIVISION

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA ( Zoning )		
PSZA ( Engineering )		
Health	<u>3-14-13</u>	<u>Dana Beard</u>
Fire Protection		

Is Sediment Control approval required for issuance?  Yes  No

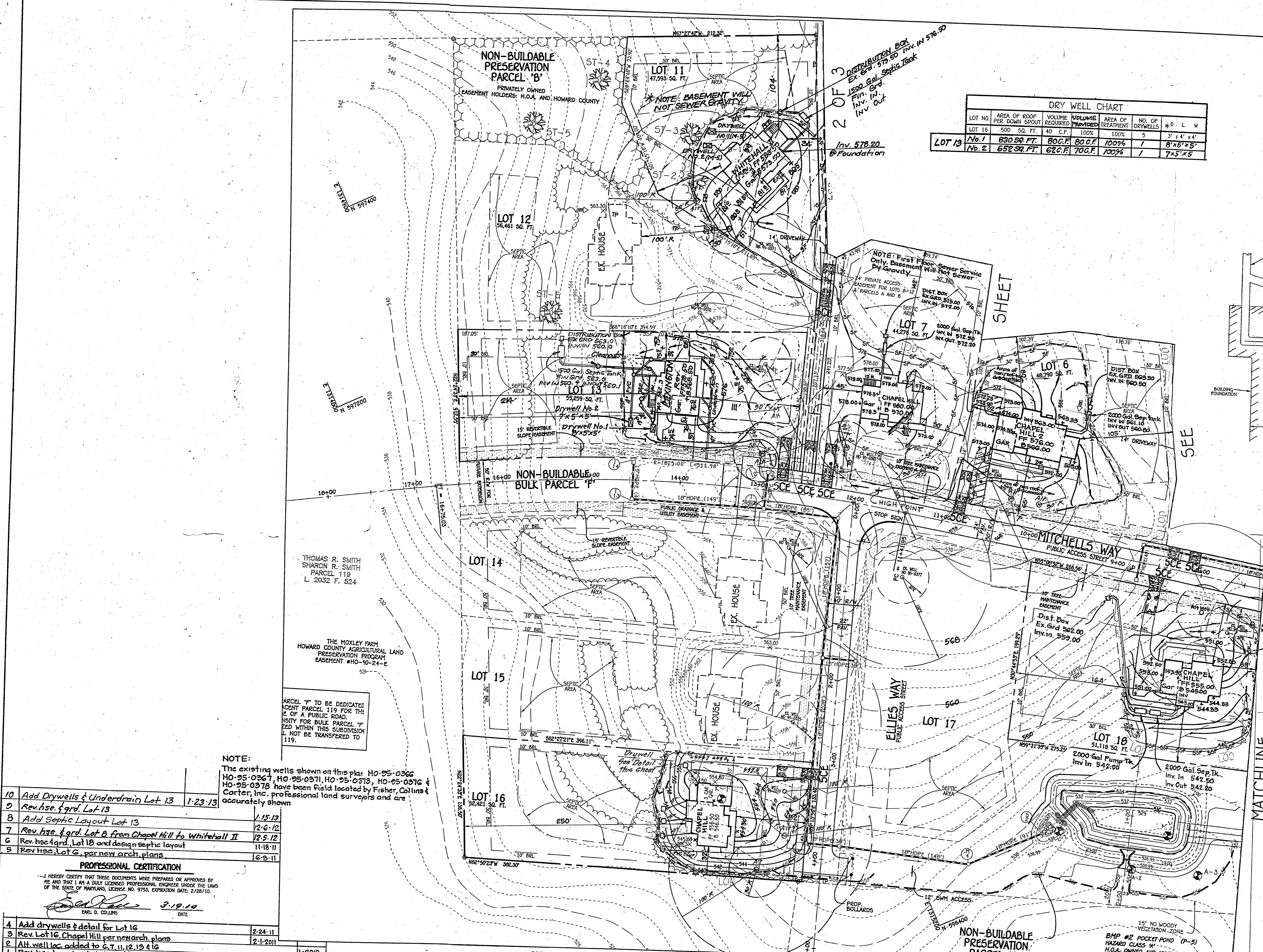
CONTINGENCY CONSTRUCTION START

ONE STOP SHOP

DPZ SETBACK INFORMATION
Front:
Rear:
Side:
Side St.:
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:
SDP/Red-line approval date:

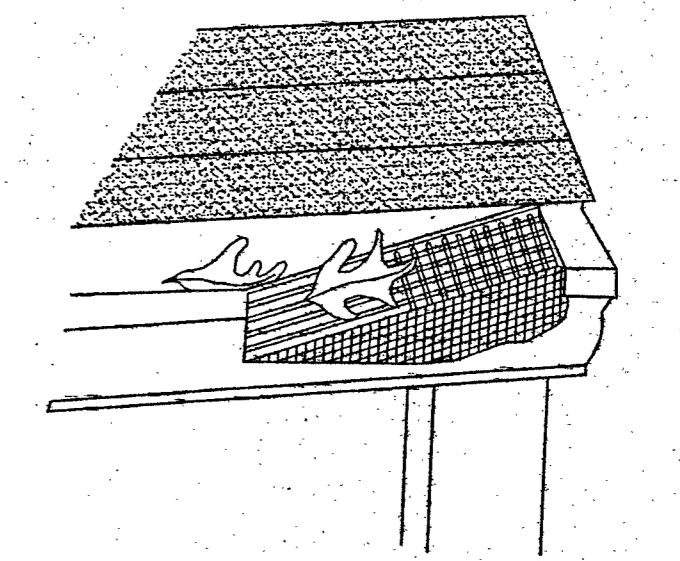
Filing Fee	\$ 100.00
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$ 50.00
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$

CR# 1862

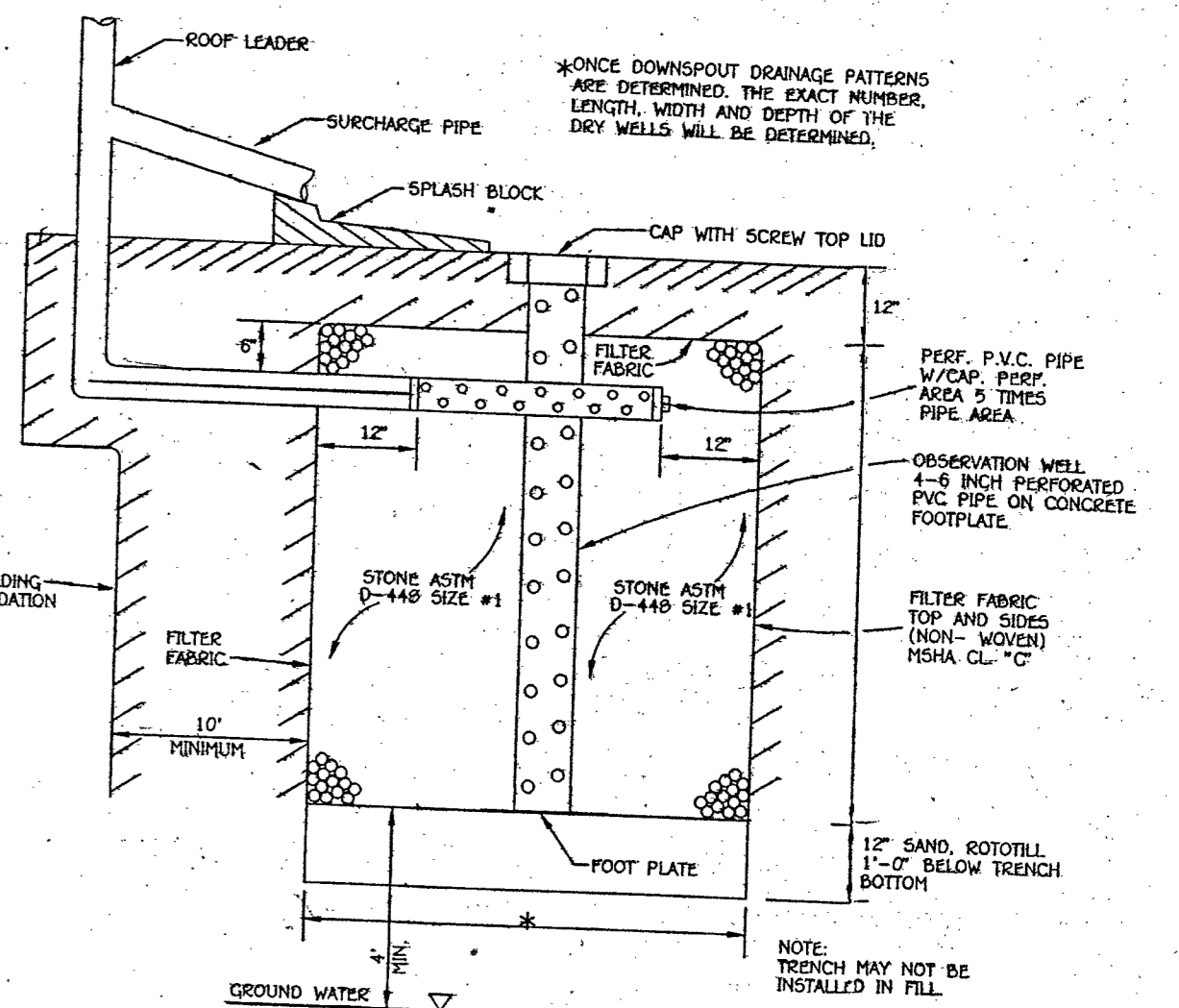


**DRY WELL CHART**

LOT NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	NO. OF DRYWELLS	*D L W
LOT 16	500 SQ. FT.	40 C.F.	100%	100%	5	3' x 4' x 4'
LOT 13	No. 1 830 SQ. FT.	80 C.F.	80 C.F.	100%	1	8' x 5' x 5'
	No. 2 652 SQ. FT.	62 C.F.	70 C.F.	100%	1	7' x 5' x 5'



**GUTTER DRAIN FILTER DETAIL**  
NOT TO SCALE



**DRY WELL DETAIL**  
NOT TO SCALE

**STORMWATER MANAGEMENT NOTES**

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5 "ENVIRONMENTAL SITE DESIGN OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 500 SQ. FT. OR LESS.
3. DRYWELL SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONTINUITY IS LESS THAN 75' AT 5%. THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

**NOTE:**  
The existing wells shown on this plan HO-95-0366, HO-95-0367, HO-95-0373, HO-95-0374, HO-95-0376 & HO-95-0378 have been field located by Fisher, Collins & Carter, Inc. professional land surveyors and are accurately shown.

10	Add Drywells & Underdrain Lot 13	1-23-13
9	Rev. hse. & grd. Lot 13	1-15-13
8	Add Septic Layout Lot 13	12-6-12
7	Rev. hse. & grd. Lot 8 from Chapel Hill to Whitehall II	12-5-12
6	Rev. hse. & grd. Lot 18 and design septic layout	11-18-11
5	Rev. hse. Lot 6, per new arch. plans	6-3-11

**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. 9753, EXPIRATION DATE: 2/28/10.  
*Earl D. Collins* 3/19/10  
EARL D. COLLINS DATE

4	Add drywells & detail for Lot 16	2-24-11
3	Rev. Lot 16, Chapel Hill per research plans	2-1-2011
2	Alt. well loc. added to G, 7, 11, 12, 13 & 16	
1	Rev. hse. type 4 grd., Lot 7, add septic information	1-2010 12-9-10

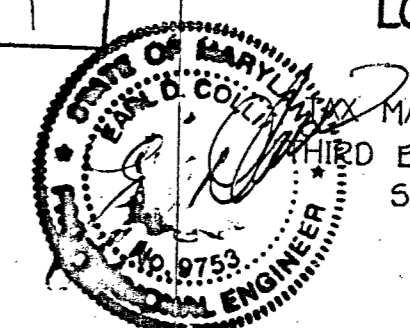
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
10772 BALTIMORE NATIONAL PKWY.  
ELLSWORTH CITY, MARYLAND 21144  
(410) 461-7299

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.  
*John P. Polston* 3/23/10  
John P. Polston 3/23/10  
Signature of Developer Date

**BUILDER/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 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.  
*Earl D. Collins* 3/19/10  
Signature of Developer Date

**ENGINEER'S CERTIFICATE**  
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.  
*Earl D. Collins* 3/19/10  
Signature of Engineer Date

**OWNER/BUILDER/DEVELOPER**  
CATONVILLE BUILDERS  
11175 STRATFIELD COURT  
MARCOTTSVILLE, MARYLAND 21104  
410-442-2211



**SITE DEVELOPMENT, SEDIMENT/EROSION CONTROL PLAN SINGLE FAMILY DETACHED CLOVERFIELD**  
LOTS 3-8, 11, 13, 16, 18, 20 & 21  
PLAT NO'S. 18953-18959  
MAP NO.: 15 GRID NO.: B PARCEL NO.: 4  
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: MARCH, 2010  
SHEET 1 OF 3

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME OR THAT I AM A QUALIFIED PROFESSIONAL ENGINEER OR SURVEYOR OF THE STATE OF MASSACHUSETTS. EXPIRATION DATE: 3/31/10.

DATE: 3/18/10

Signature of Engineer: E. D. COLLINS

Signature of Developer: [Signature]

Date: 3/18/10

1	Rev. hse. type 4 gfd. Lot 7 add septic information
2	Alt. well loc. added to 6.7.11.12.13 & 16
3	Rev. Lot 16, Chapel Hill per new arch. plans
4	Add driveways & detail for Lot 16
2-24-11	
5	Rev. hse. Lot 6, per new arch. plans
6	Rev. hse. Lot 6, Lot 16 and design septic layout
11-18-11	
7	Rev. hse. & gfd. Lot 8 from Chapel Hill to Whitehall II
12-5-12	
8	Add septic layout Lot 13
12-6-12	

NOTE:  
 The existing wells shown on this plan to 95-036C HO-95-0367, HO-95-0371, HO-95-0372, HO-95-0373 & HO-95-0378 have been field located by Fisher, Collins & Carter, Inc. professional land surveyors and are accurately shown

THOMAS R. SMITH  
 SHARON R. SMITH  
 PARCEL 119  
 L. 2032 F. 524  
 HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM  
 PARCEL #HO-90-24-E

1/We certify that all development and construction will be done according to this plan. For sediment and erosion control and that they 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 of Developer: [Signature]

Date: 3/18/10

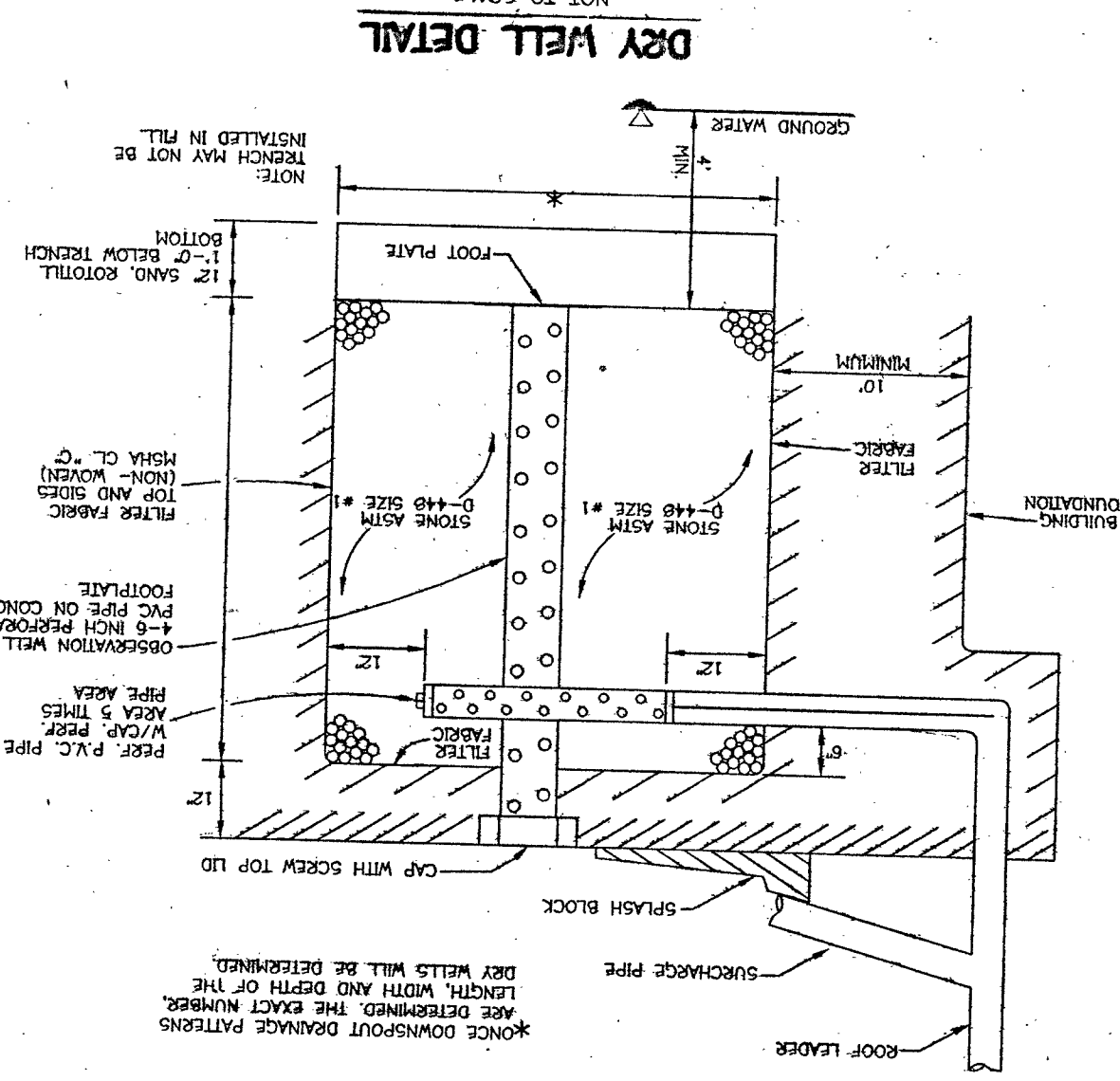
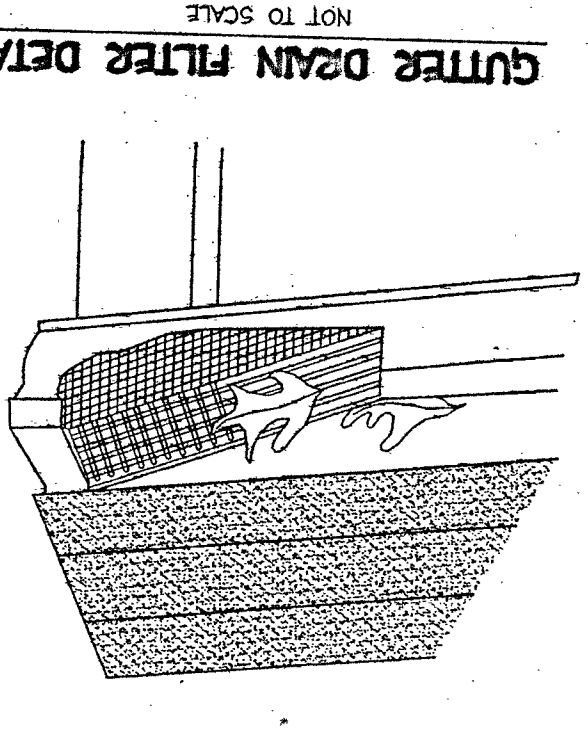
Signature of Engineer: E. D. COLLINS

Date: 3/18/10



DRY WELL CHART

LOT NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME OF TREATMENT STORAGE	AREA OF TREATMENT	NO. OF BRYWELLS	* 0' - L W
LOT 16	500 SQ. FT.	40 C.F.	100%	5	3' x 4' x 4'



STORMWATER MANAGEMENT NOTES

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 8 ENVIRONMENTAL SITE DESIGN MANUAL.
2. EFFICIENT CONTRIBUTE ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 500 SQ. FT. OR LESS.
3. DOWNSPOUT SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF PIPING OR THE DOWNSPOUT SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 8 ENVIRONMENTAL SITE DESIGN MANUAL.

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3. DOWNSPOUT SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF PIPING OR THE DOWNSPOUT SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

OWNER/BUILDER/DEVELOPER  
 CONSULTING ENGINEERS  
 11175 STRATFORD COURT  
 MARLBOROUGH, MASSACHUSETTS 01501  
 508-461-1100

ENGINEER'S CERTIFICATE  
 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 of Engineer: E. D. COLLINS

Date: 3/18/10

Signature of Developer: [Signature]

Date: 3/18/10

1/We certify that all development and construction will be done according to this plan. For sediment and erosion control and that they 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 of Developer: [Signature]

Date: 3/18/10

Signature of Engineer: E. D. COLLINS

Date: 3/18/10

MAP NO.: 15  
 GRID NO.: 8  
 PARCEL NO.: 4  
 PLAT NOS. 18953-18959  
 LOTS 3-8, 11, 13, 16, 18, 20 & 21  
 CLOVERFIELD  
 SINGLE FAMILY DETACHED  
 SEDIMENT/EROSION CONTROL PLAN

SITE DEVELOPMENT,  
 CLOVERFIELD  
 SINGLE FAMILY DETACHED  
 SEDIMENT/EROSION CONTROL PLAN

SCALE: 1" = 50'  
 DATE: MARCH, 2010  
 SHEET 1 OF 3

**20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION**

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

**PURPOSE**

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas and improving wildlife habitat and visual resources.

**CONDITIONS WHERE PRACTICE APPLIES**

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are: temporary soil stockpiles, and areas being left between construction phases, earth dikes, etc. and for Permanent Seeding are: borrow pits, dikes, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

**EFFECTS ON WATER QUALITY AND QUANTITY**

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving water bodies. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

**SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS**

- Site Preparation**
  - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, sediment control basins.
  - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
  - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil Amendments (Fertilizer and Lime Specifications)**
  - Soil tests must be performed to determine the exact rates and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
  - Fertilizers shall be uniform in composition, free flowing and approved for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable site fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
  - Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #200 mesh sieve.
  - Incorporate lime and fertilizer into the top 3"-5" of soil by disk or other suitable means.
- Seeded Preparation**
  - Temporary Seeding**
    - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as a harrow or chain drag, or other suitable means, but left in the roughened condition. Loosened areas (greater than 3:1) should be fracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
    - Apply fertilizer and lime as prescribed on the plans.
  - Permanent Seeding**
    - Minimum soil conditions required for permanent vegetative establishment:
      - Soil pH shall be between 6.0 and 7.0.
      - Soluble salts shall be less than 500 parts per million (ppm).
      - The soil shall contain less than 40% clay, but enough fine grained material (>30% will pass #20) to provide the capability to hold a moderate amount of moisture. An exception to low organic contents or low organic lepedes is to be planted, then a sandy soil (<30% silt plus clay) would be acceptable.
      - Soil shall contain 1.5% minimum organic matter by weight.
      - Soil must contain sufficient pore space to permit adequate root penetration.
      - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
    - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
    - Apply soil amendments as per soil test or as included on the plans.
    - Fix soil amendments into the top 3"-5" of topsoil by disk or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes should be fracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1"-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

- Incremental Stabilization - Cut Slopes**
  - All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
  - Construction sequence (Refer to Figure 3 below):
    - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to control runoff from the excavation.
    - Perform Phase 1 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
    - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 2 areas as necessary.
    - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas.
- Incremental Stabilization - Embankment in Fill Slopes**
  - Embankments shall be constructed in lifts as prescribed on the plans.
  - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15', or when the grading operation ceases as prescribed in the plans.
  - At the end of each day, dressed berms and pipe slope drains shall be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to sediment trapping devices.
  - Construction sequence: Refer to Figure 4 (below).
    - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff from the embankment on low side fill as shown in Figure 5, unless other methods shown on the plans address this area.
    - Place Phase 1 embankment, dress and stabilize.
    - Place Phase 2 embankment, dress and stabilize.
    - Place final phase embankment, dress and stabilize. Overseed previously seeded areas.

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-18955).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1.
  - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 SEEDING (SEC. 51), SOIL (SEC. 94), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 92). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF PLANTS.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSON FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE	13.50 ACRES
AREA DISTURBED	5.90 ACRES
AREA TO BE RESEED OR PAVED	2.77 ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.03 ACRES
TOTAL CUT	4200 CU YDS.
TOTAL FILL	4675 CU YDS.
OFFSITE WASTE/BORROW AREA LOCATION WILL BE DETERMINED	

**TEMPORARY SEEDING NOTES**

- Apply to graded or cleared areas likely to be reseeded where a short-term vegetative cover is needed.
- Seeded Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).
- Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 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 soil.
- Mulching:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding.
- Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.
- Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

**PERMANENT SEEDING NOTES**

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seeded Preparation:** Loosen upper three inches of soil by raking, discing 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. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).
  - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.
- Seeding:** For the period March 1 thru April 30 and from August 15 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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 (0.6 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:
  - 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
  - Use soil.
  - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.
- Mulching:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.
- Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

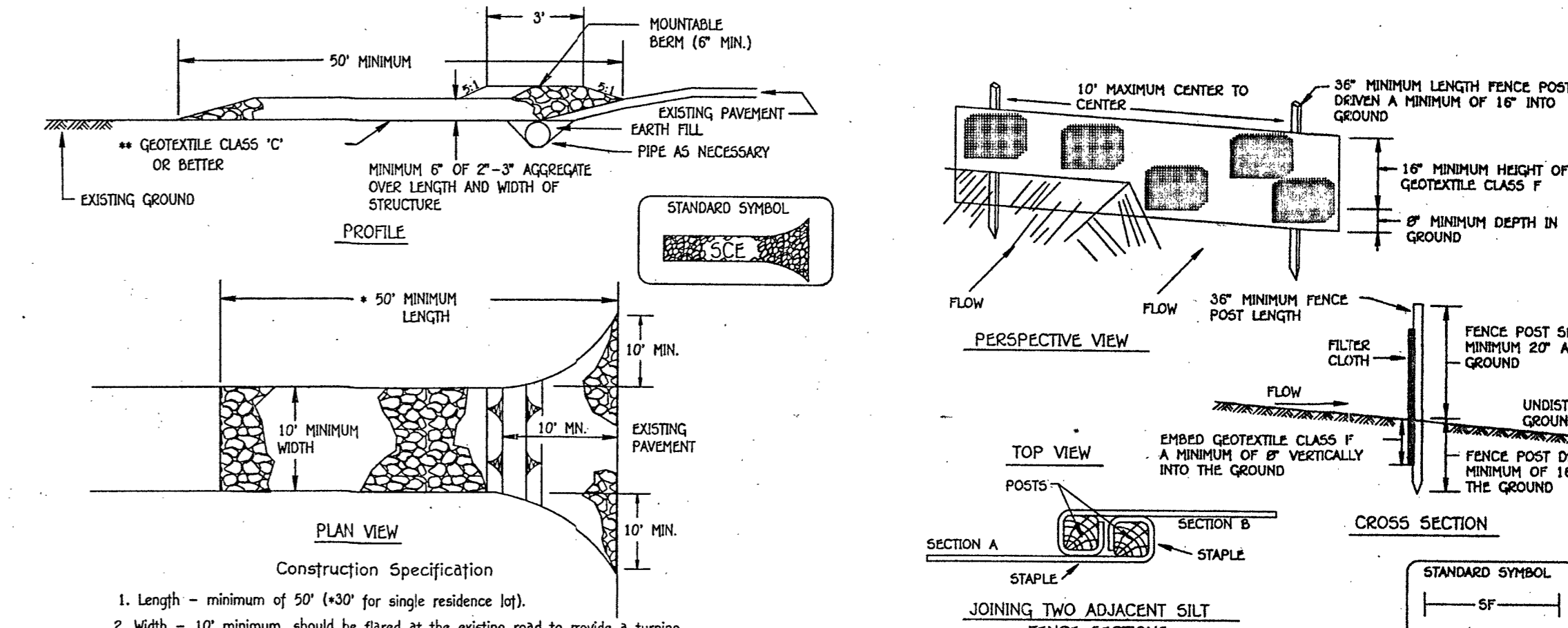
**SEQUENCE OF CONSTRUCTION**

1. OBTAIN GRADING PERMIT	7 DAYS
2. INSTALL SEEDING AND EROSION CONTROL DEVICES AS SHOWN ON PLAN	7 DAYS
3. CLEAR AND GRUB TO LINES OF DISTURBANCE	4 DAYS
4. INSTALL TEMPORARY SEEDING	2 DAYS
5. CONSTRUCT BUILDINGS	60 DAYS
6. FINE GRADE SITE, INSTALL PERMANENT SEEDING, LANDSCAPE	14 DAYS
7. REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSON IS GRANTED BY E/S CONTROL INSPECTOR.	7 DAYS

**STANDARDS AND SPECIFICATIONS FOR TOPSOIL**

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

- Purpose**  
To provide a suitable soil medium for vegetative 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 soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured materials and shall consist of less than 5% by volume of coarse stones, silt, 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, Johnsongrass, nutgrass, 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.
    - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
      - For sites having disturbed areas over 5 acres:
        - On soil meeting topsoil specifications, obtain test results detailing fertilizer and lime amendments required to bring the soil into compliance with the following:
          - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
          - Organic content of topsoil shall be not less than 1.5 percent by weight.
          - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
          - No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
        - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
      - When topsoil is used, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.
      - Grades on the areas to be topsoiled, which have been previously established, shall be maintained about 4" - 6" higher in elevation.
      - Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seedine can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
      - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
      - Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
        - Composted sludge material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
          - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 28.04.06.
          - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
          - Composted sludge shall be applied at a rate of 1/10,000 square feet.
        - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/10,000 square feet.



**Construction Specifications**

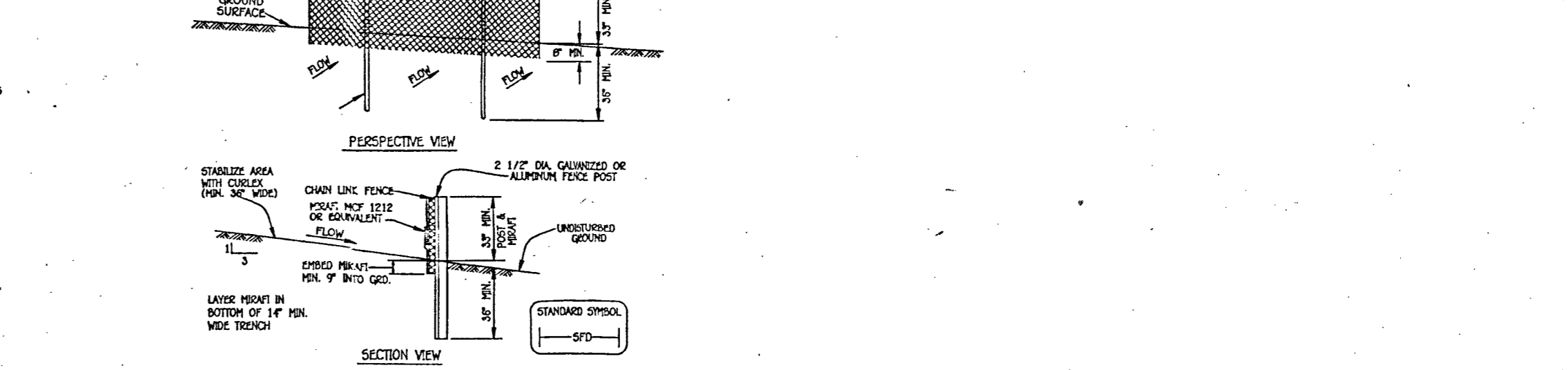
- Fence posts shall be a minimum of 3/8" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter minimum round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
- 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.
- Slope - crushed aggregate (2" to 3") or recycled 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 malleable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe 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 shall 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.

**STABILIZED CONSTRUCTION ENTRANCE**

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas less than 2% slope and sandy soils (USDA general classification system, soil class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.



- CONSTRUCTION SPECIFICATIONS**
- FENCING SHALL BE 42" HIGH DRAIN CONSTRUCTION IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD DETAILS (PDS) AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR A 6'-0" FENCE SHALL BE USED, SUBSTITUTING 42" FENCING AND P. POSTS. POSTS SHALL BE PLACED WITHOUT 42" FENCING AND P. POSTS. POSTS SHALL BE PLACED WITHOUT 42" FENCING AND P. POSTS. POSTS SHALL BE PLACED WITHOUT 42" FENCING AND P. POSTS.
  - CHAIN LINK FENCING SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR SLATS. THE LOWER TENSION WIRE SHALL BE EXCEPT ON THE FRONT OF THE FENCE.
  - FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCING WITH TIES SPACED EVERY 6" AT TOP AND MID SECTION.
  - FILTER CLOTH SHALL BE RECESSED A MINIMUM OF 9" INTO THE GROUND.
  - WHEN TWO SECTIONS OF DIVERSION CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FASTENED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED.

**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - - - -	PROPOSED CONTOUR 2' INTERVAL
+	SPOT ELEVATION
—S—S—	PROPOSED SILT FENCE
—TF—TF—	TREE PROTECTION FENCE PER F-06-110
---	DIRECTION OF DRAINAGE
---	LINE OF DISTURBANCE
—S—S—	EXISTING SILT FENCE PER F-06-110
—SS—SS—	SUPER SILT FENCE PER F-06-110

**SUPER SILT FENCE**

Slope Steepness	Silt Fence Length (Maximum)	Silt Fence Length (Minimum)
0 - 10%	0 - 121	Unlimited
10 - 20%	101 - 91	1,000 feet
20 - 30%	51 - 51	500 feet
30 - 50%	51 - 21	250 feet
50% +	21 +	100 feet

*John R. Rhoton* 9/25/12  
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

*John K. Rhoton* 3/23/10  
Howard SCD

**BUILDER/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 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."

*Earl D. Collins* 3/19/10  
Signature of Developer Date

**ENGINEER'S CERTIFICATE**

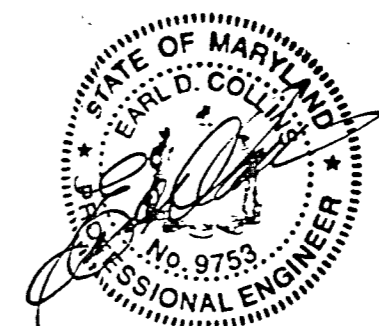
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

*Earl D. Collins* 3/19/10  
Signature of Engineer Date

**OWNER/BUILDER/DEVELOPER**

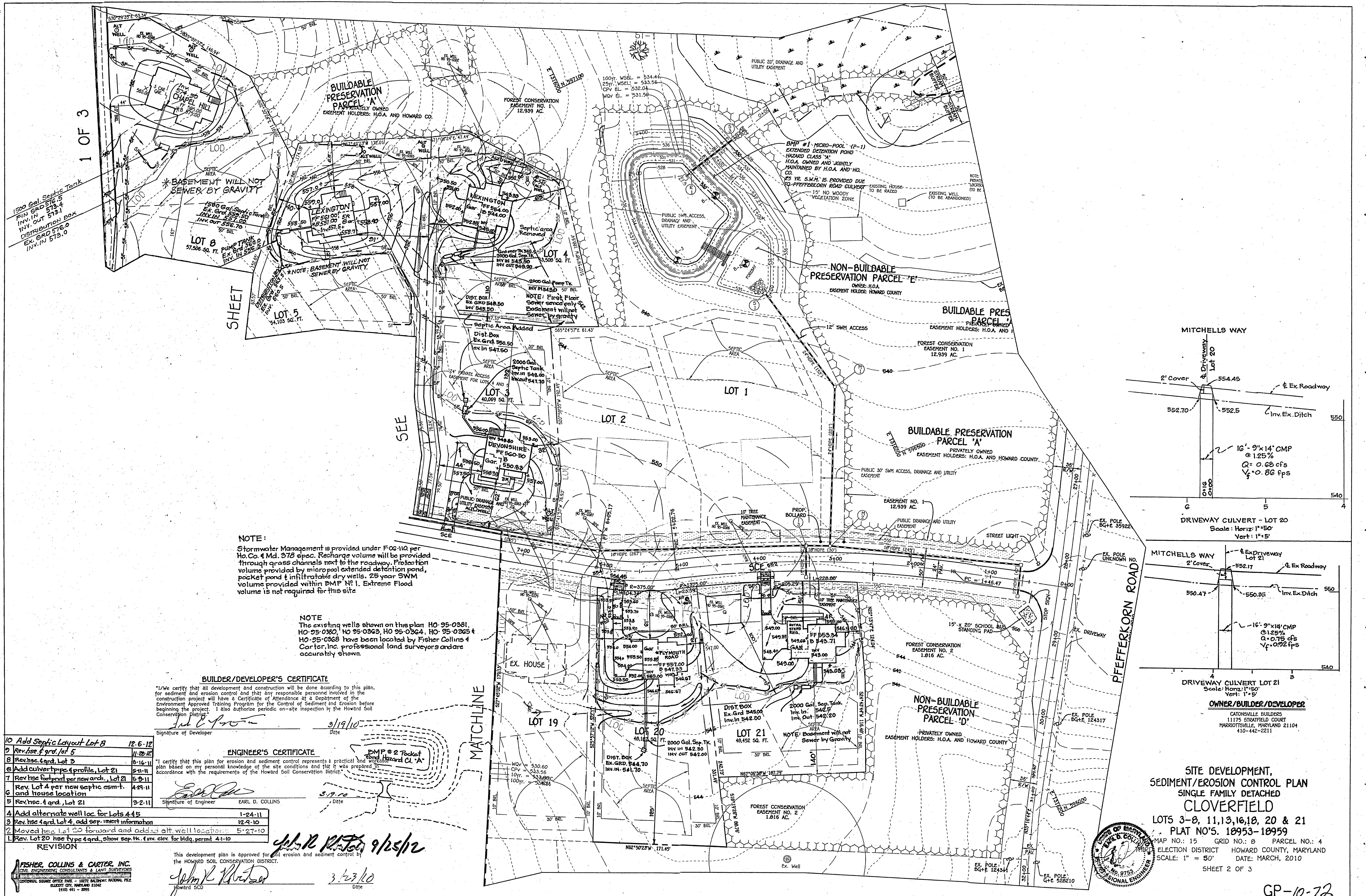
CATONSVILLE BUILDERS  
11175 STRATFORD COURT  
MARRIOTTVILLE, MARYLAND 21104  
410-442-2211

**SEDIMENT & EROSION CONTROL DETAILS**  
SINGLE FAMILY DETACHED  
**CLOVERFIELD**  
LOTS 3-8, 11, 13, 16, 18, 20 & 21  
PLAT NO'S. 18953-18959  
TAX MAP NO.: 15 GRID NO.: 8 PARCEL NO.: 4  
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: NO SCALE DATE: MARCH, 2010



1 OF 3

SHEET



**NOTE:**  
Stormwater Management is provided under FOG-110 per Ho. Co. # Md. 37B spec. Recharge volume will be provided through grass channels next to the roadway. Protection volume provided by micropool extended detention pond, pocket pond & infiltratable dry wells. 25 year SWM volume provided within BMP #1. Extreme Flood volume is not required for this site.

**NOTE:**  
The existing wells shown on this plan HO-95-0381, HO-95-0382, HO-95-0363, HO-95-0364, HO-95-0365 & HO-95-0368 have been located by Fisher Collins & Carter, Inc. professional land surveyors and are accurately shown.

**BUILDER/DEVELOPER'S CERTIFICATE**

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*John R. R. [Signature]* 3/19/10  
Signature of Developer Date

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"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."

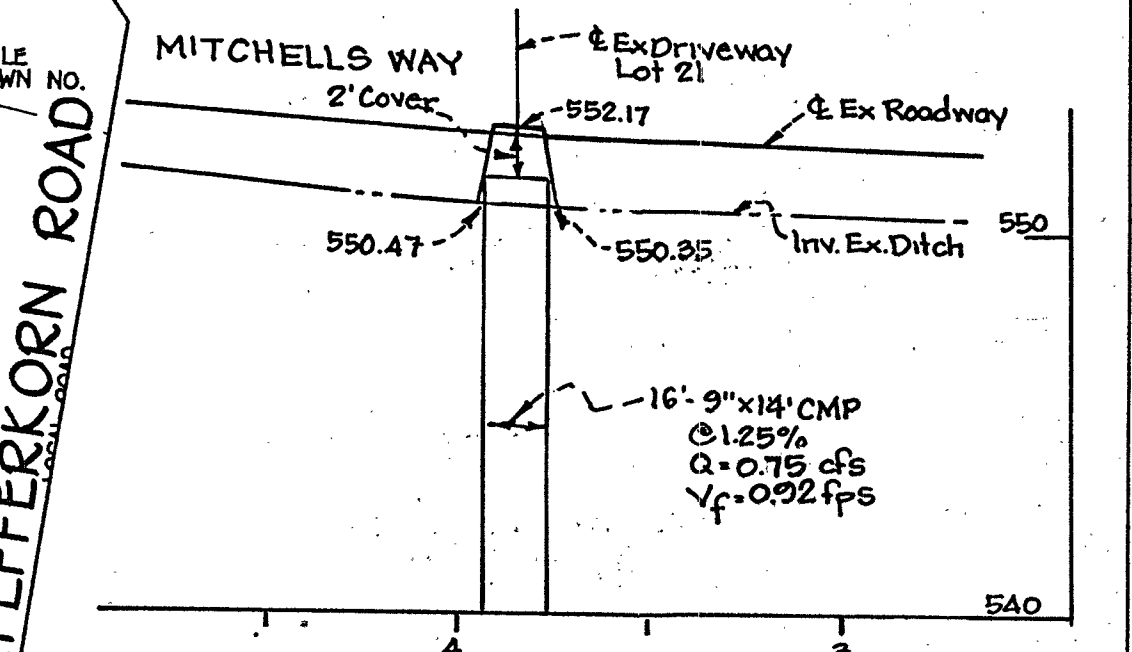
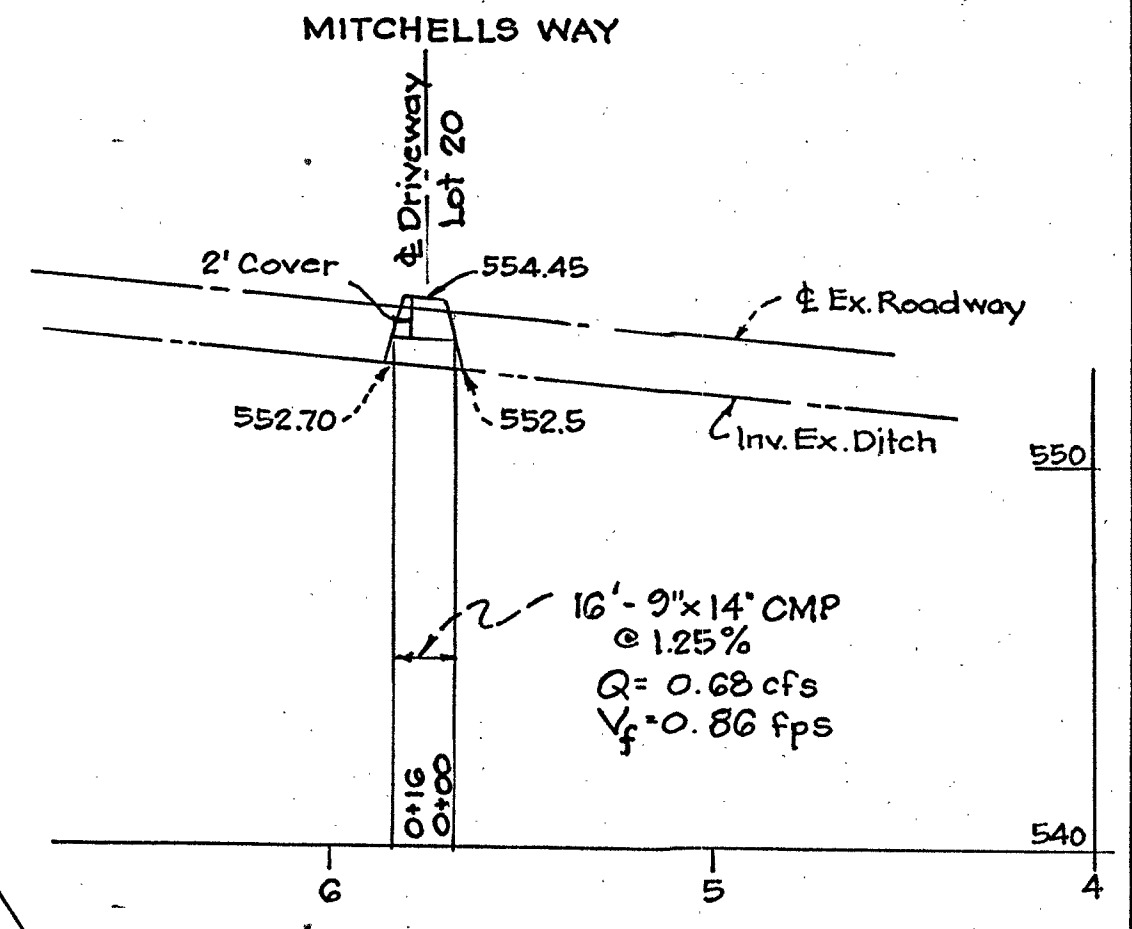
*Earl D. Collins [Signature]* 3-9-10  
Signature of Engineer EARL D. COLLINS Date

10 Add Septic Layout Lot 8	12-6-12
9 Rev. hse. & grd. Lot 5	11-20-12
8 Rev. hse. & grd. Lot 3	8-16-11
6 Add culvert type & profile, Lot 21	5-11-11
7 Rev. hse. footprint per new arch., Lot 21	5-9-11
5 Rev. Lot 4 per new septic csm-t. and house location	4-29-11
4 Rev. hse. & grd., Lot 21	3-2-11
4 Add alternate well loc. for Lots 4 & 5	1-24-11
3 Rev. hse. & grd. Lot 4, add sep. invert information	12-9-10
2 Moved hse. Lot 3 forward and added alt. well locations	5-27-10
1 Rev. Lot 20 hse type & grd., show sep. tk. & inv. elev. for bldg. permit	4-1-10

**FISHER, COLLINS & CARTER, INC.**  
LOCAL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SOURCE OFFICE: PARK - 10272 BALTIMORE NATIONAL PIKE  
ALEXANDRIA, VIRGINIA 22304  
(410) 461-5995

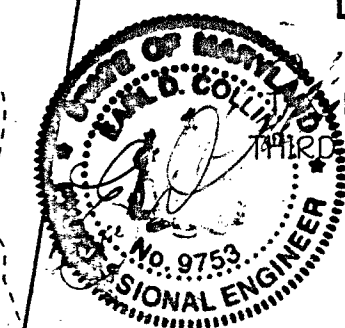
This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

*John R. R. [Signature]* 3-23-10  
Date



**SITE DEVELOPMENT,  
SEDIMENT/EROSION CONTROL PLAN  
SINGLE FAMILY DETACHED  
CLOVERFIELD  
LOTS 3-8, 11,13,16,18, 20 & 21  
PLAT NO'S. 18953-18959**

MAP NO.: 15 GRID NO.: 8 PARCEL NO.: 4  
ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: MARCH, 2010  
SHEET 2 OF 3



GP-10-72