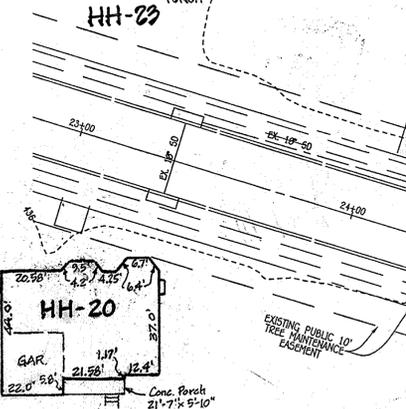
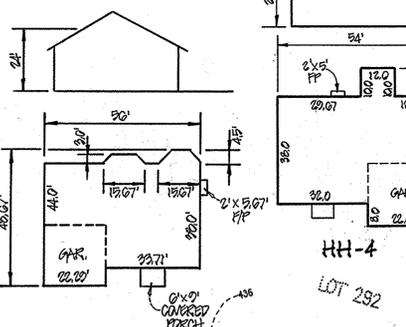
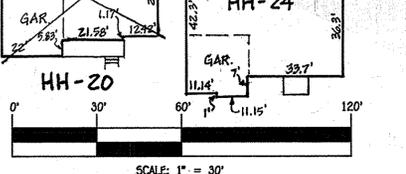
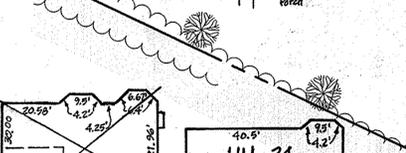
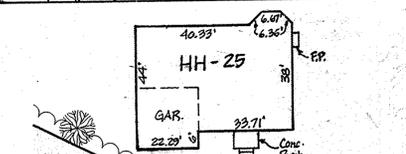


SOIL	NAME	CLASS
G22	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
G22	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	C
G22	GLENELG LOAM, 15 TO 24 PERCENT SLOPES, MODERATELY ERODED	C
*G22	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
M23	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
M23	MANOR VERY STONY LOAM, 25 TO 40 PERCENT SLOPES	B
M23	MANOR VERY STONY LOAM, 3 TO 25 PERCENT SLOPES	B
M22	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
M22	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B

NOTES:
 * HYDRIC SOILS AND/OR CONTAINS HYDRIC INCLUSIONS
 ** MAY CONTAIN HYDRIC INCLUSIONS
 † GENERALLY ONLY WITHIN 100-YEAR FLOODPLAIN AREAS



Qty.	Key	Name	Size
3		Quercus coccinea / Scarlet Oak	2 1/2" - 3 Cal.
3		Cupressoparis leylandi / Leyland Cypress	5'-6' Hgt.



SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SERVICE OFFICE PARK - 10772 BALDORR NATIONAL FLD
 ELKLOFT CITY, MARYLAND 21044
 (410) 461-2222

NO.	REVISION	DATE
13	REV. LOTS 21&22 TO HH-21 & HH-22	05/12/10
12	REV. LOT 25 PER ABSOLUTE GRADING	04/27/10
11	REV. LOT 24 TO HH-24	03/01/10
10	REV. LOT 25 TO AN HH-25 HOUSE & REV. ASSOC. GRADING	07/10/05
9	REV. LOT 20 TO A NEW HH-20 HOUSE	09/21/02
8	REV. LOT 20 TO NEW HH-20 HOUSE & REVISE LEVEL SPREADER	03/29/15
7	REV. LOT 20 TO HH-20 & LEVEL SPREADER LOCATION	01/25/14
6	REV. HHS & GAR. PER LOT 2 PER AD-BUILT	10/14/13
5	REV. HHS & GAR. LOT 2 FROM GAR. BOX 'C' TO HH-2	01/11/12
4	REV. HHS & GAR. LOT 4 FROM GAR. BOX 'C' TO HH-4	01/11/12
3	REV. HHS & GAR. LOT 23 FROM GAR. BOX 'C' TO HH-23	01/11/12
2	LOT 19, REVISED HOUSE TYPE TO FIT ON LOT	11/15/12
1	LOT 18, MOVED HOUSE BACK 7' PER CLIENT REQUEST	10/28/12



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 1-29-13
 EARL D. COLLINS 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 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."

B. James Greenfield 1-29-13
 Signature of Developer B. JAMES GREENFIELD DATE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 9753, EXPIRATION DATE: 2/28/14.

Earl D. Collins 1-29-13
 EARL D. COLLINS DATE

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kurt Salchow 3/04/13
 Chief, Division of Land Development Date

Paul J. Green 2/27/13
 Chief, Division of Engineering Date

Pamela Jones for Marsha Atkinson 3-12-13
 Director - Department of Planning and Zoning Date

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19084-19080	6 & 12	R-20	17	SECOND	602100

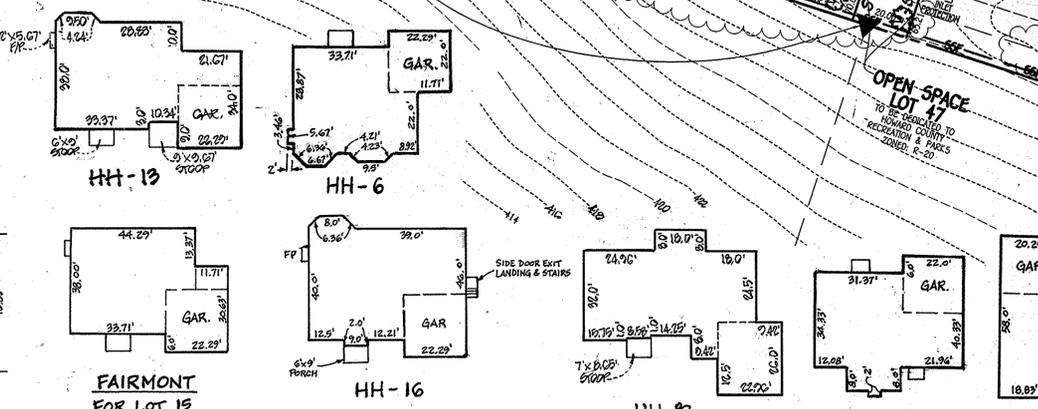
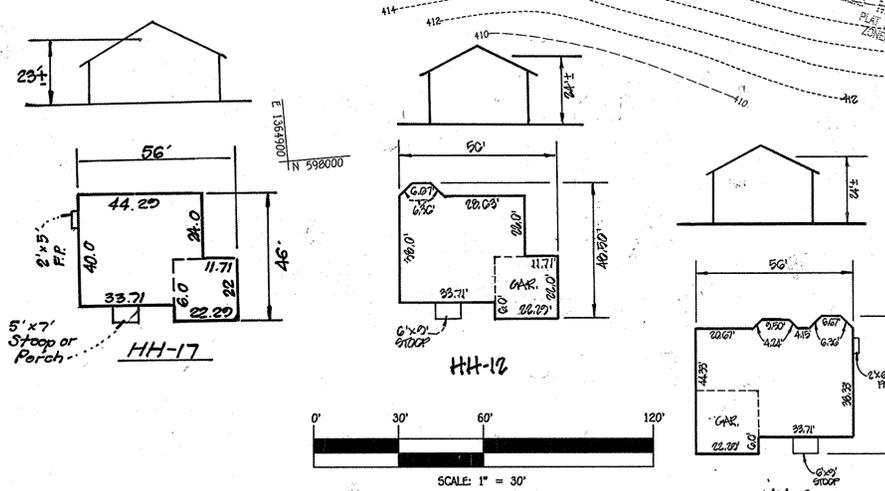
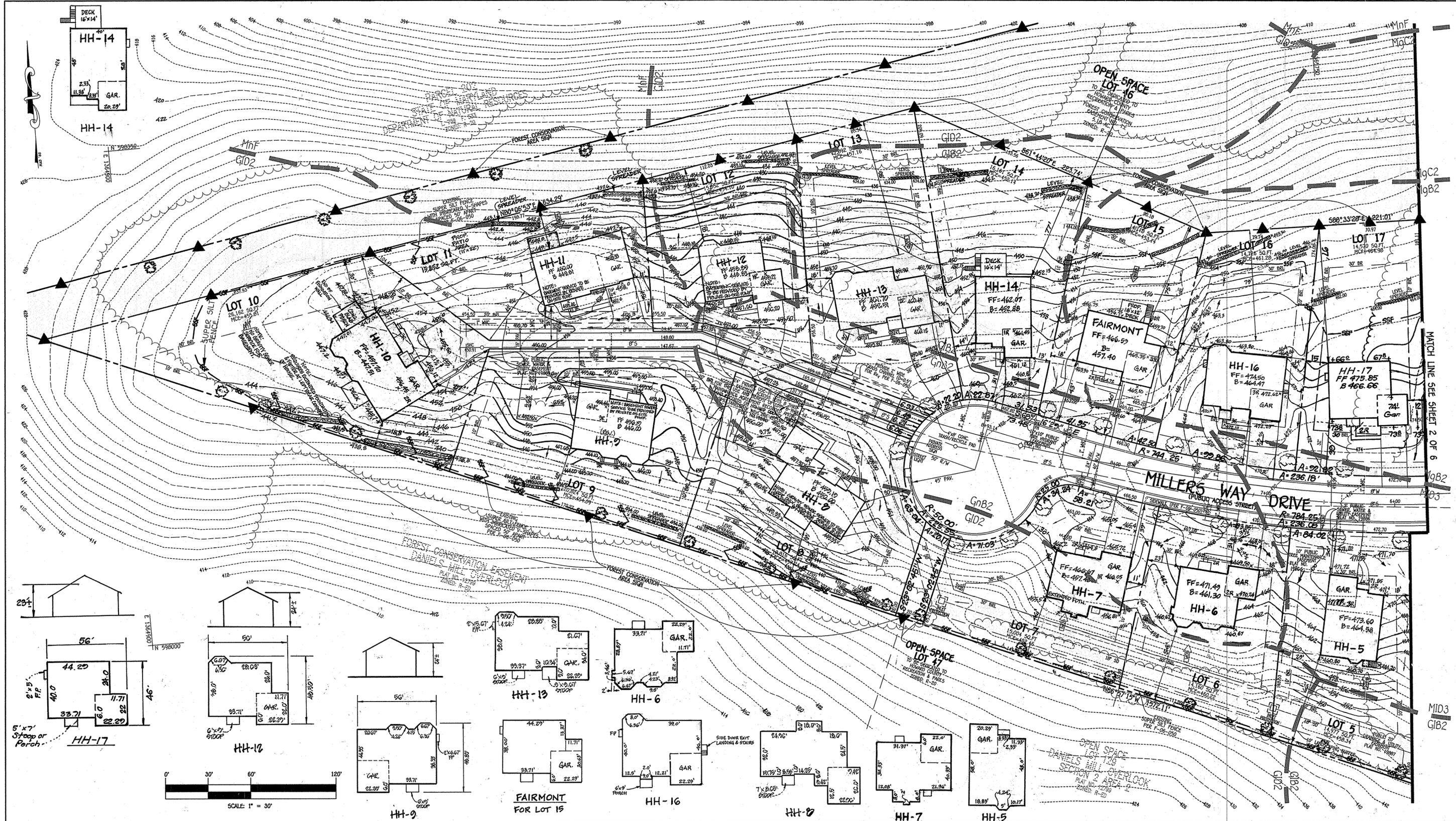
WATER CODE	SEWER CODE
F-04	1450000

SITE DEVELOPMENT PLAN
 SINGLE FAMILY DETACHED
 HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S: 42 & 43 GRID NO'S: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 2 OF 6

SOP-13-017



NO.	REVISION	DATE
14	REV. LOT 10 TO SHOW ASSULT GRADING & REV. LEVEL SPREADERS	4/22/16
13	REV. LOT 10 TO SHOW HH-10 HOUSETYPE & ASSOC. GRADINGS	5/1/15
12	REV. LOT 9 TO SHOW AS-BUILT HOUSE & GRADING	4/28/15
11	REV. LOT 4 TO HH-14, ASSOC. GRADING & LEVEL SPREADER LOCATIONS	7/09/14
10	REV. HOUSED, LOTS 5, 6, 7 & 8 TO HH-5, HH-6, HH-7 & HH-8	8/16/14
9	REV. HOUSE & LOT 13, FINAL GAR. BOX TO HH-9	8/16/14
8	REV. HOUSE & LOT 13, FINAL GAR. BOX TO HH-9	8/16/14
7	REV. HOUSE & LOT 13, FINAL GAR. BOX TO HH-9	8/16/14
6	REV. LOT 11 TO SHOW ASSULT CONDITIONS	05/16/14
5	REV. LOT 16 TO HH-16 & REVISE LEVEL SPREADERS	02/10/14
4	REV. LOT 15 TO FAIRMONT & REV. LEVEL SPREADERS	01/05/14
3	REV. HOUSE & LOT 9, FINAL MEN. BOX TO HH-9	8/22/13
2	REVISE HOUSE & GRADING LOT 11	07/1/13
1	Rev. base of 9/10/12 Lot 17	7-5-13



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: *Earl D. Collins* Date: 1-23-13

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.

Signature of Developer: *B. James Greenfield* Date: 1-29-13

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: 2/28/14.

Signature: *Earl D. Collins* Date: 1-29-13

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: *Ket Stashenko* Date: 3/04/13
 Chief, Division of Land Development

Signature: *John J. ...* Date: 2/20/13
 Chief, Development Engineering Division

Signature: *For Dale ...* Date: 3-12-13
 Director, Department of Planning and Zoning

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
1988A-1988B	6 & 12	R-20	17	SECOND	602100

WATER CODE: F-04
 SEWER CODE: 1450000

SITE DEVELOPMENT PLAN

SINGLE FAMILY DETACHED

HOLLIFIELD HILLS

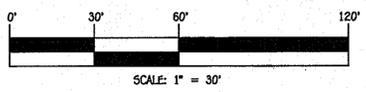
LOTS 2 THRU 25

ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S: 42 & 43 GRID NO'S: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 3 OF 6

1. 2004A-CM057 (Rev. 1/01) 2. 2005-14242.FTA 3. 1/29/13 4. 2015-14242.FTA 5. 1/29/13 6. 2015-14242.FTA 7. 1/29/13 8. 2015-14242.FTA 9. 1/29/13 10. 2015-14242.FTA 11. 1/29/13 12. 2015-14242.FTA 13. 1/29/13 14. 2015-14242.FTA 15. 1/29/13 16. 2015-14242.FTA 17. 1/29/13 18. 2015-14242.FTA 19. 1/29/13 20. 2015-14242.FTA 21. 1/29/13 22. 2015-14242.FTA 23. 1/29/13 24. 2015-14242.FTA 25. 1/29/13 26. 2015-14242.FTA 27. 1/29/13 28. 2015-14242.FTA 29. 1/29/13 30. 2015-14242.FTA 31. 1/29/13 32. 2015-14242.FTA 33. 1/29/13 34. 2015-14242.FTA 35. 1/29/13 36. 2015-14242.FTA 37. 1/29/13 38. 2015-14242.FTA 39. 1/29/13 40. 2015-14242.FTA 41. 1/29/13 42. 2015-14242.FTA 43. 1/29/13 44. 2015-14242.FTA 45. 1/29/13 46. 2015-14242.FTA 47. 1/29/13 48. 2015-14242.FTA 49. 1/29/13 50. 2015-14242.FTA 51. 1/29/13 52. 2015-14242.FTA 53. 1/29/13 54. 2015-14242.FTA 55. 1/29/13 56. 2015-14242.FTA 57. 1/29/13 58. 2015-14242.FTA 59. 1/29/13 60. 2015-14242.FTA 61. 1/29/13 62. 2015-14242.FTA 63. 1/29/13 64. 2015-14242.FTA 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FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTONAL SQUARE OFFICE, P.O. BOX 10272 BALTIMORE NATIONAL FIRE
 ELLIOTT CITY, MARYLAND 21042
 (410) 461-2295

NO.	REVISION	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."
 Signature of Engineer: *Carl D. Collins* 1-29-13
 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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *B. James Greenfield* 1-29-13
 Date

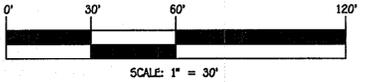
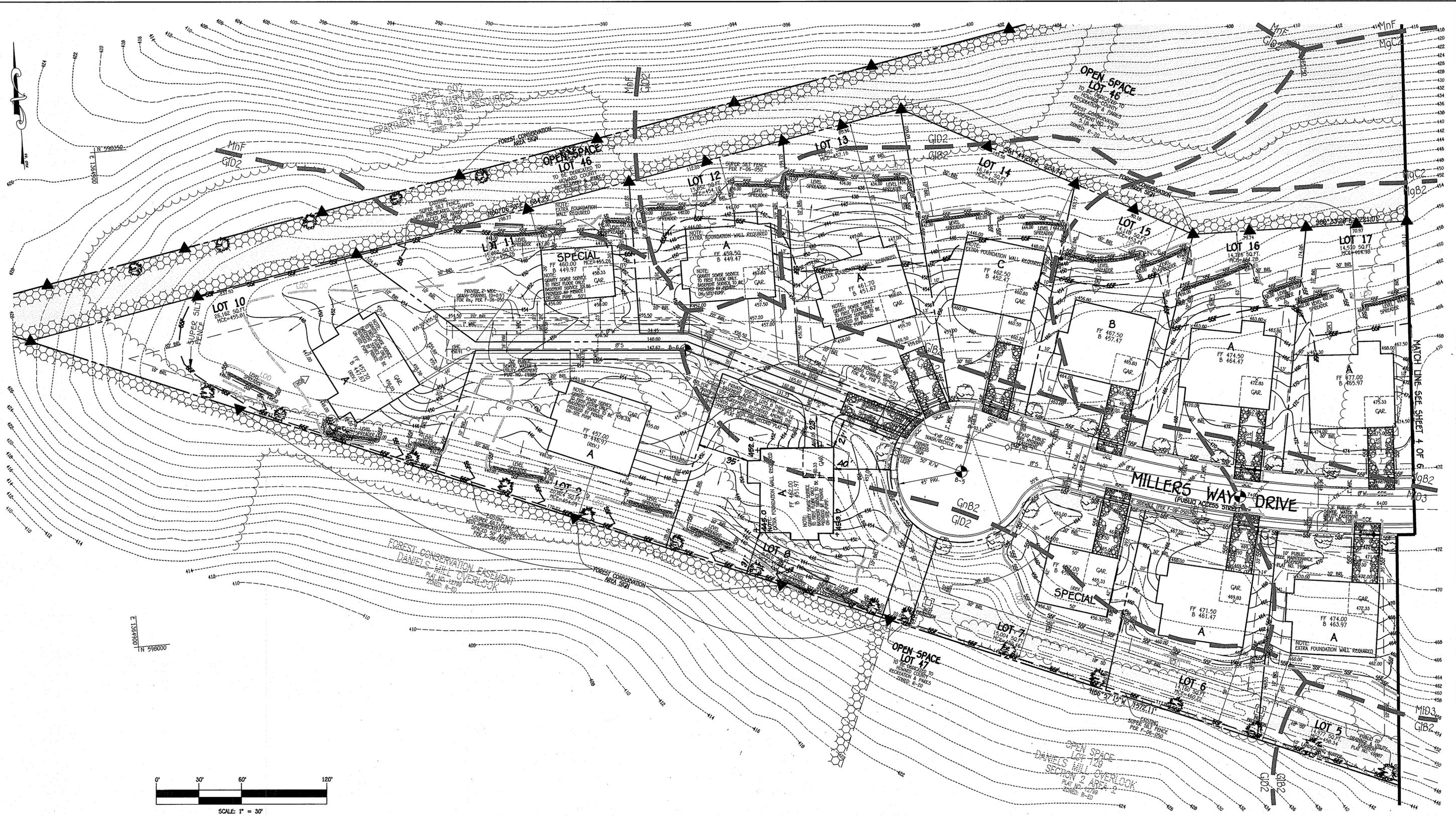
"This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT."
 Signature of District: *John L. Roberts* 2/5/13
 Date

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-780-9939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land-Development: *Victoria Paulson* 3/04/13
 Chief, Development Engineering Division: *William ...* 2/27/13
 Director - Department of Planning and Zoning: *David ...* 3-18-13

PROJECT	SECTION	LOTS NO.			
HOLLIFIELD HILLS	N/A	2 THRU 25			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19084-19088	6 & 12	R-20	17	SECOND	602100
WATER CODE	SEWER CODE				
F-04	1450000				

SEDIMENT/EROSION CONTROL PLAN
SINGLE FAMILY DETACHED
HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20
 TAX MAP NO.: 17 PARCEL NO.'S: 42 & 43 GRID NO.'S: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012
 SHEET 4 OF 6



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FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELKROTT CITY, MARYLAND 21042
 (410) 461-2292

NO.	REVISION	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."

Signature of Engineer: *Earl D. Collins* 1-29-13 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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *B. James Greenfield* 1-29-13 Date

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

Signature: *John K. Kolutsa* 2/15/13 Date

OWNER/DEVELOPER
 MID-ATLANTIC LAND DEVELOPMENT COMPANY
 C/O B. JAMES GREENFIELD
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-730-3939

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: *K. J. Schuchman* 3/04/13 Date
 Chief, Division of Land Development

Signature: *John J. ...* 2/27/13 Date
 Chief, Department of Engineering Division

Signature: *Kevin ... & Maria ...* 3-18-13 Date
 Director - Department of Planning and Zoning

PROJECT	SECTION	LOTS NO.
HOLLIFIELD HILLS	N/A	2 THRU 25

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19084-19808	6 & 12	R-20	17 SECOND		602100

WATER CODE	SEWER CODE
F-04	1450000

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED
HOLLIFIELD HILLS
 LOTS 2 THRU 25
 ZONED: R-20

TAX MAP NO.: 17 PARCEL NO'S.: 42 & 43 GRID NO'S.: 6 & 12
 SECOND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER, 2012

SHEET 5 OF 6 SDP-13-017

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 stabilization, cleared areas being site between construction phases, earth fills, etc. and for Permanent Seeding are: lawns, dunes, cut and fill slopes and other areas of final grade, former stockpiles 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 waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeding, 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, or 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 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.
- Soil Amendments (Fertilizer and Lime Specifications)**
 - Soil tests must be performed to determine the exact ratios 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 suitable for accurate application by approved equipment. Measures may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the product.
 - 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 98-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
- Seeded Preparation**
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc, harrow or chisel plow or ripper mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be graded 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.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

- 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 disc, harrow or chisel plow or ripper mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be graded 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.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
- 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% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loesslike or sereck loesslike 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.
 - Soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be rolled to smooth the surface, remove large objects like stones and branches, and relevel the area for seed and application. Where site slopes are not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked 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.

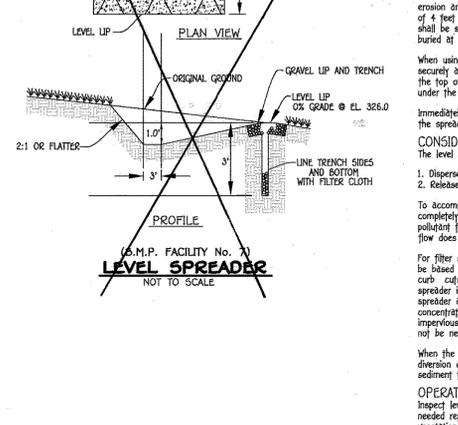
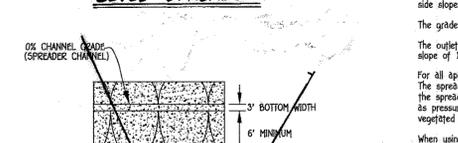
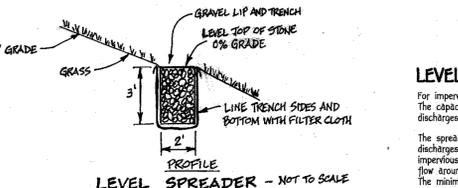
- Seed Specifications**
 - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to pre-testing by a recognized seed laboratory. All seed shall be loose and tested within the 6 months immediately preceding the date of sowing such material on this job.
 - Seed tags shall be made available to the inspector to verify type and rate of seed used.
 - Inoculant - The inoculant for treating legume seed shall be inoculant that should not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effective.
 - Methods of Seeding**
 - Hydroseeding:** Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cutspreader seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen: maximum of 100 lbs. per acre total of soluble nitrogen; P2O5 (phosphorous): 200 lbs/acre; K2O (potassium): 200 lbs/acre.
 - Lime - use only ground agricultural limestone, (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding:** This includes use of conventional drop or broadcast spreaders.
 - Seed spread dry shall be incorporated into the subsoil at the sites prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 28. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
 - Where permanent seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Drill or Cutspreader Seeding:** Mechanized seeders that apply and cover seed with soil.
 - Calculating seeders are required to bury the seed in such a fashion as to provide at least 1/4" of soil covering. Seeded must be firm after planting.
 - Where permanent seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Mulch Specifications (In order of preference)**
 - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall be mostly round, culm, decorticated, or excessively dry and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
 - Wood Cellulose Fiber Mulch (WCFM)**
 - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical fibre.
 - WCFM shall be dried green or contained a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
 - WCFM, including dye, shall contain no germination or growth inhibiting factors.
 - WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a buffer-like ground cover, on application, having the moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFM material shall contain no elements or compounds at concentration levels that will be phytotoxic.
 - WCFM must conform to the following physical requirements: fiber length to be approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.
- Note: Only straw mulch should be used in areas where species of grass is desired.

- Mulching Seeded Areas** - Mulch shall be applied to all seeded areas immediately after seeding.
 - If seeding is completed outside of the seeding season, mulch shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
 - When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is used, the rate should be increased to 2.5 tons/acre.
 - Wood cellulose fiber used as a mulch shall be applied at a wet dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.
- Securing Straw Mulch (Mulch Anchoring)** - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:
 - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
 - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a wet dry weight of 750 lbs./acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Application of liquid binders should be heavier at the edges where wind catches much, such as in valleys and crest of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic DLR (Ago-Tack), DCA-70 Petro-Tac, Terra Tex II, Terra Tack 46 or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
 - Lightweight plastic netting may be applied over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.
- Incremental Stabilization - Cut Slopes**
 - All cuts 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 4 below):
 - Excavate and stabilize all temporary slopes, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

- Incremental Stabilization - Fill Slopes**
 - Excavate and stabilize all temporary slopes, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Note: Once placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.
- Incremental Stabilization of Embankments - 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 on the plans.
 - At the end of each day, temporary berms and pipe slope ditches should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erusive manner to a sediment trapping device.
 - Construction sequence: Refer to Figure 4 (below).
 - Excavate and stabilize all temporary slopes, side ditches, or berms that will be used to direct runoff around the fill. Construct slope all force on low side of 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 as necessary.
- Note: Once placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

SEQUENCE OF CONSTRUCTION

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



TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION FROM THE START OF ANY CONSTRUCTION (311-1100).
 2. 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 (311-1100).
 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL DISTURBED AREAS ON THE PROJECT SITE, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 4. ALL SEDIMENT TRAP-BASINS SHOWN MUST BE FENCED AND MAINTAINED APPROXIMATELY 10 FEET FROM THE DISTURBED AREAS IN ACCORDANCE WITH CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 5. 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. 511, 500 (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FROM THE DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 7. SITE ANALYSIS:

TOTAL AREA OF SITE	8,947 ACRES
AREA DISTURBED	6,423 ACRES
AREA TO BE ROOFED OR PAVED	2,234 ACRES
AREA TO BE VEGETATIVELY STABILIZED	4,189 ACRES
TOTAL CUT	0 CUBIC YD.
TOTAL FILL	0 CUBIC YD.
OFFSITE WASTE/ROCKWALL AREA LOCATION	N/A
 - 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING, SHALL BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL DIVISION UPON COMPLETION OF INSTALLATION OF PERMEABLE 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 THE INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 - 11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION FROM THE START OF ANY CONSTRUCTION (311-1100).
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 4. ALL SEDIMENT TRAP-BASINS SHOWN MUST BE FENCED AND MAINTAINED APPROXIMATELY 10 FEET FROM THE DISTURBED AREAS IN ACCORDANCE WITH CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
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 7. SITE ANALYSIS:

TOTAL AREA OF SITE	8,947 ACRES
AREA DISTURBED	6,423 ACRES
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AREA TO BE VEGETATIVELY STABILIZED	4,189 ACRES
TOTAL CUT	0 CUBIC YD.
TOTAL FILL	0 CUBIC YD.
OFFSITE WASTE/ROCKWALL AREA LOCATION	N/A
 - 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING, SHALL BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
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 - 11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

STANDARDS AND SPECIFICATIONS FOR TOPSOIL

- Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
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OFFSITE WASTE/ROCKWALL AREA LOCATION	N/A
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DEFINITION

- 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.
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LEVEL SPREADER CRITERIA

- For impervious surface runoff applications. The capacity for the level spreader is determined by the design of the filter strip to which it discharges.
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CONSIDERATIONS

1. Disperse impervious surface runoff uniformly to a filter strip or
 2. Release small volumes of concentrated flow from diversions when conditions are suitable.
- To accomplish these purposes, particular care must be taken to construct the spreader lip completely level. Any depressions in the lip will concentrate the flow, resulting in a loss of pollutant filtering effectiveness and/or erosion. Utilize the outlet system to be sure that flow does not concentrate below the outlet.
- For filter strip applications, the determination of whether a level spreader is needed should be based on how the runoff is entering the filter strip. If the runoff is concentrated by curb cuts, and particularly if a large area of impervious surface drains to one point, a level spreader is essential to achieve effective pollutant removal in the filter strip. A level spreader also is important if the filter strip is relatively steep in order to avoid erosion from concentrated runoff discharge. If the runoff is evenly distributed over the width of the impervious surface (e.g., a curbside, even-sloped road or parking lot), a level spreader may not be necessary.
- When the level spreader is used as an outlet for temporary or permanent diversions and diversion dikes, runoff containing high sediment loads must be treated in an approved sediment trapping device.

OPERATION AND MAINTENANCE

- Verify that the level spreader is distributing flow evenly. If problems are noted, make appropriate modifications to ensure even flow distribution.
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