

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 and revisions thereto. 3. Following initial soll disturbance or re-disturbance, permanent or temporary

stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOMARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified

accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). remporary 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 operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site 13.31 Acres Area Disturbed 3.89 Acres Area to be roofed or paved .43 Acres

Area to be vegetatively stabilized 2.46 Acres

Offsite waste/borrow area location will be to a site with an approved sediment control plan and an approved and open grading permit. 8. Any sediment control practice, which is disturbed by grading activity for

of utilities, must be repaired on the same day of disturbance. 9. Additional sediment control must be provided, if deemed necessary by the

County Sediment Control Inspector O. On all sites with disturbed areas in excess of 2 acres, approval of the

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.

11. Trenches for the construction of utilities is limited to three pipe lengths

which shall be back-filled and stabilized by the end of each workday, whichever is Rev. 9/99

Topsoil Notes

Construction and Material Specifications

I. 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 topsoll to be salvaged for a given soll type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station

II. Topsoll Specifications - Soil to be used as topsoil must meet the following: i. 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, topsoll 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 that 1 * In diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified. ill. 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. II. For sites having disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as specified in 20.0

Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. IV. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: Topsoil Notes

a) 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 b) Organic content of topsoil shall be not less than 1.5 percent by weight. c) Topsoil having soluble salt content greater than 500 parts per million shall

d) No sod 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 phyto-toxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority,

may be used in lieu of natural topsoil. li. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and

Materials V. Topsoil Application

I. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope slit fence and sediment traps and basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation. iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil. iv. 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. Page 3

Topsoil Notes v. 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 seedbed preparation. VI. 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: i. 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 a) 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 26.04.06. b) 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.

c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

NOTE:

ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with vegetative or non-vegetative practices

Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL* Published jointly by the Maryland Department of Environment - Mater Management Administration, the National Resource Conservation Service, and the State Soil Conservation Committee.

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See 6-20 Sec. 1-6. 2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre

(15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-B. 3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in 6-20 Sec. 1-B.

4. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in 6-20 Sec. 1-C.

5. Mulching will be applied immediately after seeding and will need to meet the requirements in 6-20 Sec. 1-F, 6 and H.

6. Seeding mixtures shall be selected from or will be equal to those on Table 26.

7. The following is one option, approved equals may be used.

	Temporary Seeding Summary					
Seed Mixture Hardin	(G-20 Figure 5)					
	Application	Seeding	Seeding			
No. Species	Rate(lb/ac)	Dates	Depths			
N/A Kentucky-31	80	3/1 to 11/15	1*			
Annual Rye	20	3/1 to 11/15	1/4" - 1			

PERMANENT SEEDING NOTES

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the '1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL* Published jointly

by the Maryland Department of Environment - Mater Manager Administration, the National

Resource Conservation Service, and the State Soll Conservation Committee. 1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See 6-20 Sec. 1-C.

2. For sites over 5 ac. soll tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Soils tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in G-20 Sec. 1-C-ii, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21.

3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply. 4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N-90 lb per acre (2 lb per 1000 sq. ft.) P205-175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in 6-20 5ec. 1-B.

5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in 6-20 Sec. 1-B.

6. Seed tags shall be made available to the inspector to verify the type and rate of seed used The seed must meet the requirements in G-20 Sec. 1-c.

7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F,G 4 H.

8. Refer to 6-20 Sec. 1-E for Methods of Seeding specifications.

9. Refer to 6-20 Sec. 4 for Sod specifications.

10. Refer to 6-20 Sec. 5 for Turfgrass Establishment specifications.

1 1. Seeding mixtures shall be selected from or will be equal to those on Table 25. 12. The following is one option, approved equals may be used.

Permanent Seeding Summary

N 10 P205 10 K20 10

Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness Zone 6B/7A(G-20 Figure 5)

	Application	Seeding	Seeding
No. Species	Rate(lb/ac)	Dates	Depths
N/A Triple Fine Fescue	160	3/1 to 10/30	1"-2"
Perennial Rye	40	3/1 to 10/30	1"-2"

Trackina note:

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the & height criteria.

UTILITY CONSTRUCTION NOTES

1. Place all excavated material on the high side of the trench.

2. Only do as much work as can be done in one day so backfilling, final grading, and permanent stabilization can occur.

3. Any sediment control measures disturbed by the utility construction will be repaired the same day.

STOCKPILE/TOPSOIL NOTES

1. Stockpiling will not be allowed on any impervious area.

2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls.

3. All stockpile areas shall be confined within perimeter controls. In the event that stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field.

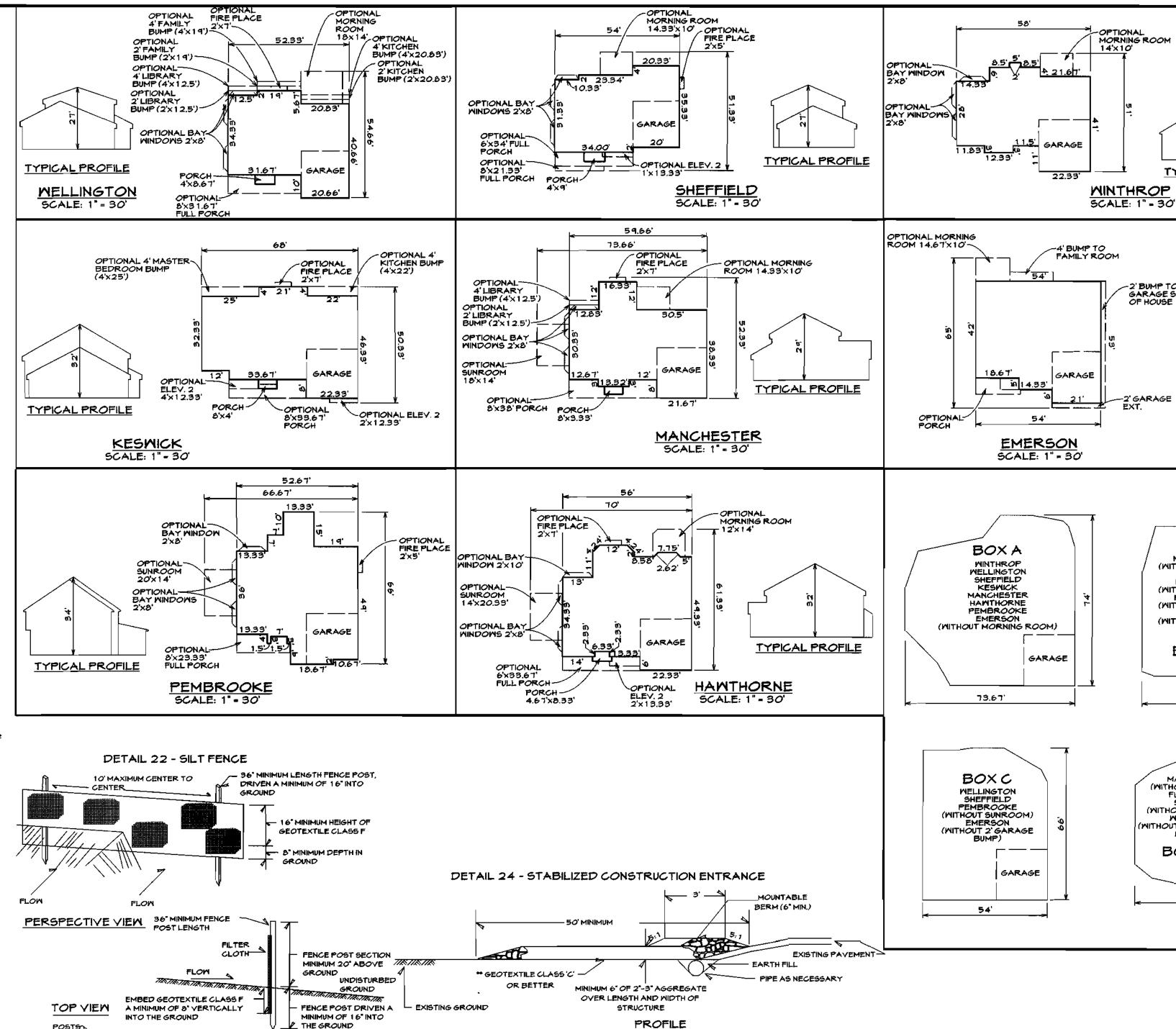
SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. (1 DAY) 2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN

PER LOT.(2 DAYS) 3. CONSTRUCT DWELLING. (90 DAYS) 4. FINE GRADE LOT AND INSTALL

DRIVEWAY AND SIDE WALKS. (1 DAY) 5. INSTALL PERMANENT SEEDING AND MULCHING. (1 DAY)

6. INSTALL LANDSCAPING. (1 DAY) 1. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR. REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)



LENGTH

PLAN VIEW

2. MIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING

3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR

TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY

4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE

EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND MIDTH OF THE

5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION

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

ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED, A 6" MINIMUM WILL BE REQUIRED.

6. 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 CONSTRUCION ENTRANCE.

REVIEWED FOR THE HOWARD SOIL CONSERVATION

DISTRICT AND MEET THE TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE
THIS DEVELOPMENT PLAN IS THROVED FOR SOIL EROSION AND SEPIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED

ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).

CROSS SECTION SECTION A STANDARD SYMBOL STAPLE

JOINING TWO ADJACENT SILT FENCE SECTIONS Construction Specifications 1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. MOOD POSTS SHALL BE 115" X 115" SQUARE (MINIMUM) CUT, OR 1%" DIAMETER

(MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD, STEEL POSTS MILL BE 2. 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

TENSILE STRENGTH 50 LBS/IN (MIN.)
TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 509 0.3 GAL FT & MINUTE (MAX.) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.)

Flatter than 50:1

10:1 to 5:1

.5:1° to 3:1

3:1 to 2:1

2:1 and steepe

50:1 to 10:1

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED,

Silt Fence Design Criteria

FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. 4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED MHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

(Maximum) (Maximum) 5ilt Fence Length Slope Lengtr Slope Steepness unlimited unlimited 125 feet 1,000 feet 100 feet 750 feet 500 feet 250 feet 40 feet

125 feet

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH MILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND

EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED

I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOMARD SOIL

IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE

THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR

ENGINEER'S CERTIFICATE HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND MORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS IN ACCORDANCE MITH THE REQUIREMENTS OF THE HOMARD SOIL CONSERVATION DISTRICT." TOMFORC PROFESSIONAL ENGINEER REG. No. 23446

STANDARD SYMBO

SCE IN

RADIUS.

RESIDENCES TO USE GEOTEXTILE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING PAVEMENT OWNER/DEVELOPER CARLEE MANOR L.L.C. 3230 BETHANY LANE SUITE 1 ELLICOTT CITY, MD. 21045 410-750-1200

NOTES & DETAILS LOTS 1 THROUGH 13 AND 22 CARLEE MANOR

TYPICAL PROFILE

<u>TYPICAL PROFILE</u>

(MITHOUT SUNROOM)

(MITHOUT SUNROOM)
PEMBROOKE
(MITHOUT SUNROOM)

(WITHOUT 2'GARAGE BUMP)

MANCHESTER

(MITHOUT SUNROOM &

(WITHOUT FULL PORCH)

MELLINGTON

(MITHOUT MORNING ROOM)
MINTHROP

59.67

BOX D | GARAGE

BOX B GARAGE

GARAGE SIDE OF HOUSE

TAX MAP 11, PARCEL 123



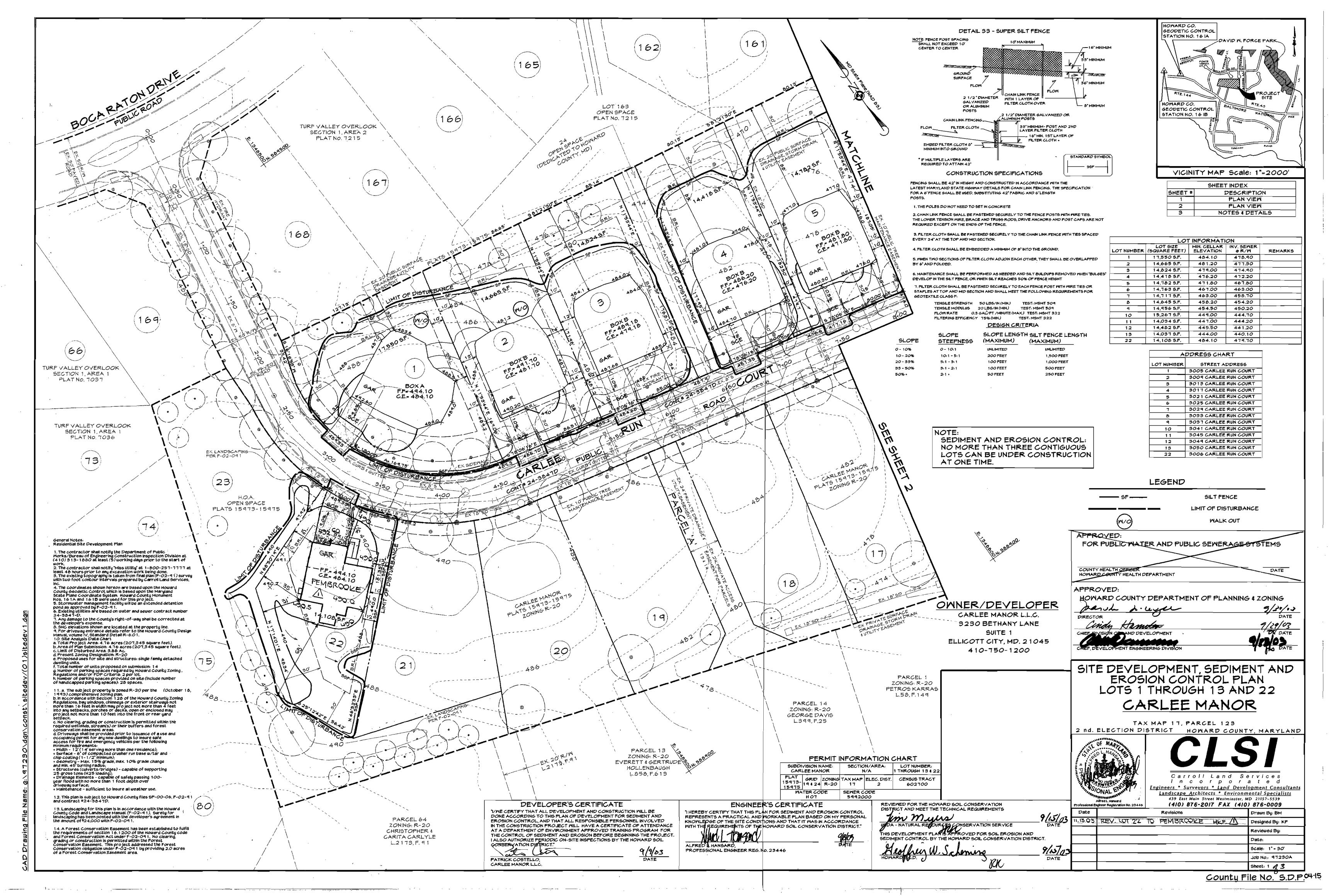
2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

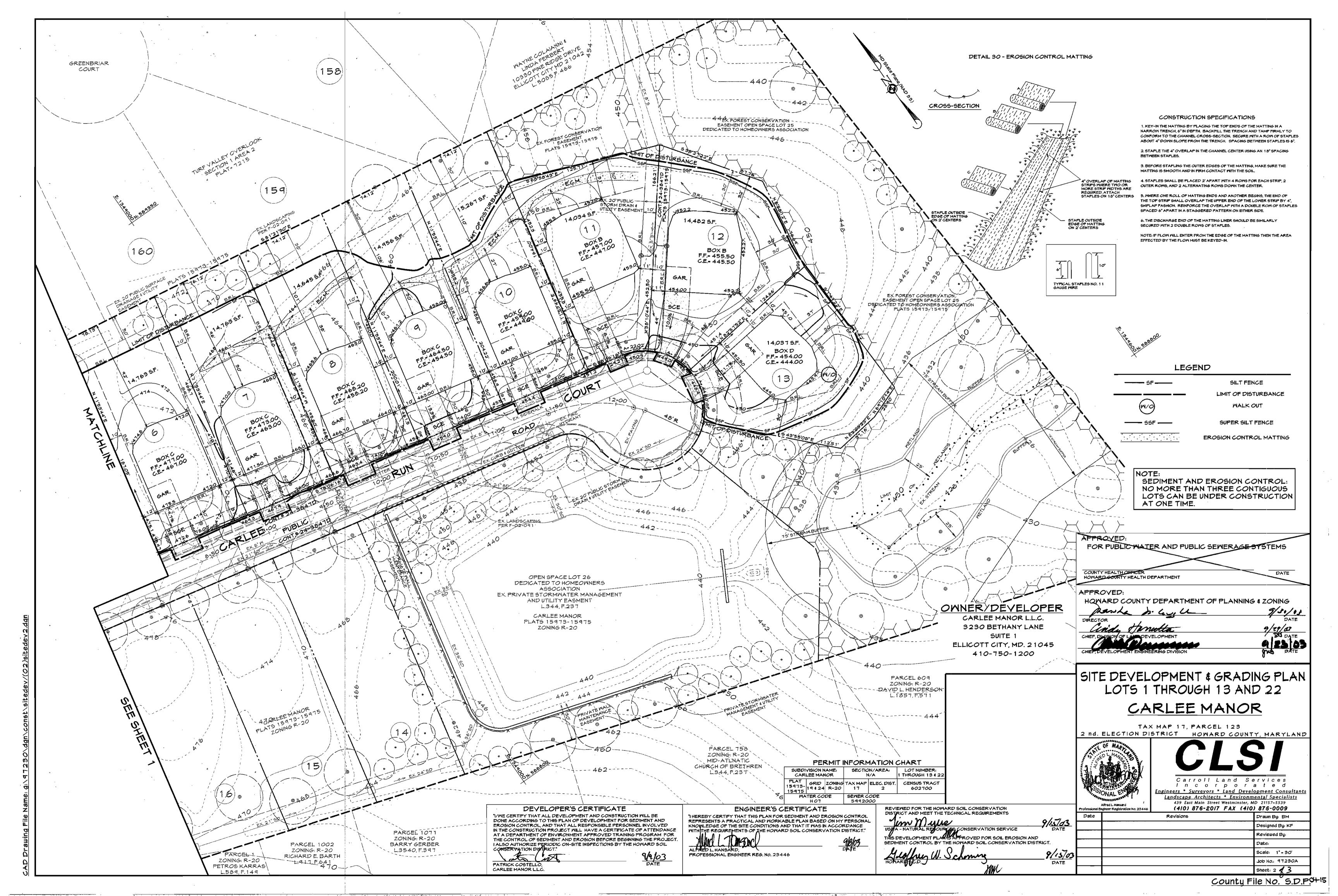
Carroll Land Services ncorporated ngineers * Surveyors * Land Development Consultants Landscape Architects * Environmental Specialists 439 East Main Street Westminster, MD 21157-5539

(410) 876-2017 FAX (410) 876-0009 fessional Engineer Registration No. 2344 Drawn By: BM

Designed By: Reviewed By: Date: Scale: AS SHOWN Job No.: 97230A Sheet: 3 **1** 3

County File No. S.D.P.94-15





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 and revisions thereto. 3. Following initial soil disturbance or re-disturbance, permanent or temporary

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5. All disturbed areas must be stabilized within the time period specified accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec

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County Sediment Control Inspector.

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Topsoil Notes

Rev. 9/99

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i. 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 subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 «" in diameter. ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack

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III. For sites having disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and

ly. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: Page 2

Topsoil Notes a) 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

b) Organic content of topsoil shall be not less than 1.5 percent by weight. c) Topsoil having soluble salt content greater than 500 parts per million shall

d) No sod 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 phyto-toxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins. ii. Grades on the areas to be topsoiled, which have been previously established,

shall be maintained, albeit 4"-8" higher in elevation. iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil.

iv. preparation and tillage. Any irregularities in the surface resulting from topsolling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

Topsoil Notes

v. 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 seedbed preparation. VI. 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: i. 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:

that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06. b) 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

a) Composted sludge shall be supplied by, or originate from, a person or persons

be added to meet the requirements prior to use. c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet. ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

NOTE:

ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with vegetative or non-vegetative practices.

Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL* Published jointly by the Maryland Department of Environment - Water Management Administration, the National Resource Conservation Service, and the State Soil Conservation Committee

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. Se¢ 6-20 Sec. 1-C.

2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre (15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the

requirements in 6-20 Sec. 1-B. 4. Seed tags shall be made available to the inspector to verify the type and rate of seed used.

The seed must meet the requirements in G-20 Sec. 1-C. 5. Mulching will be applied immediately after seeding and will need to meet the requirements in

G-20 Sec. 1-F, G and H. 6. Seeding mixtures shall be selected from or will be equal to those on Table 26.

7. The following is one option, approved equals may be used.

Temporary Seeding Summary

Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)

		Application	Seeding	Seed ng
No.	Species	Rate (lb/ac)	Dates	Depths
N/A	Kentucky-31	,80	3/1 to 11/15	1
Annu	al Rye	20 .	3/1 to 11/15	1/4" - 1/2"

Scope: Planting permanent, long lived vegetative cover on graded and/or dleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Manager Administration, the National Resource Conservation Service, and the State Soil Conservation Committee

1. The seed bed shall be prepared by loosening the soil to a depth of 3 tabla 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See 6-20 Sec. 1-C.

2. For sites over 5 ac. soil tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Soils tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in 6-20 Sec. 1-C-ii, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21.

3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply. 4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N-90 lb per acre (2 lb per 1000 sq. ft.) P205-175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in G-20

5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 \$4, ft.) and shall meet the requirements in 6-20 Sec. 1-B.

6. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-c.

Permanent Seeding Summary

7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F,G 4 H.

8. Refer to G-20 Sec. 1-E for Methods of Seeding specifications.

9. Refer to 6-20 Sec. 4 for 5od specifications. 10. Refer to G-20 Sec. 5 for Turfgrass Establishment specifications.

1 1. Seeding mixtures shall be selected from or will be equal to those on Table 25.

12. The following is one option, approved equals may be used.

N 10 P205 10 K20 10

Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)

	Application	Seeding	Seeding
No. Species	Rate (lb/ac)	Dates	Depths
N/A Triple Fine Fescue	160	3/1 to 10/30	1"-2"
Perennial Rye	40	3/1 to 10/30	17-27

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

UTILITY CONSTRUCTION NOTES

1. Place all excavated material on the high side of the trench.

2. Only do as much work as can be done in one day so backfilling, final grading, and permanent stabilization can occur.

3. Any sediment control measures disturbed by the utility construction will be repaired

STOCKPILE/TOPSOIL NOTES

1. Stockpiling will not be allowed on any impervious area.

2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls.

3. All stockpile areas shall be confined within perimeter controls. In the event that stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field.

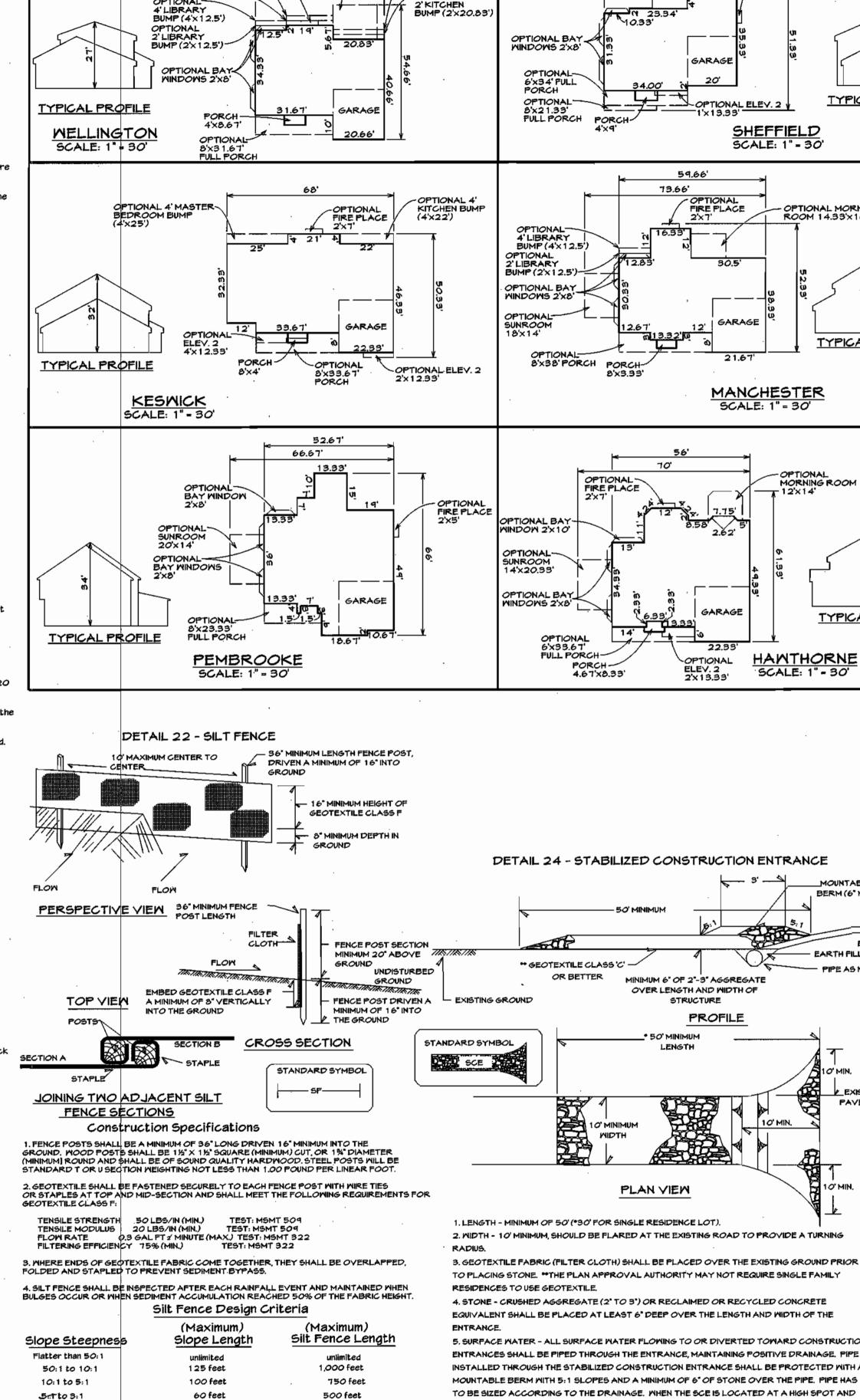
SEQUENCE OF CONSTRUCTION

I. OBTAIN GRADING PERMIT. (1 DAY) 2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN

PER LOT. (2 DAYS) 3. CONSTRUCT DWELLING. (90 DAYS) 4. FINE GRADE LOT AND INSTALL

DRIVEWAY AND SIDE WALKS. (1 DAY) 5. INSTALL PERMANENT SEEDING AND MULCHING. (1 DAY)

6. INSTALL LANDSCAPING. (1 DAY) 7. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR. REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)



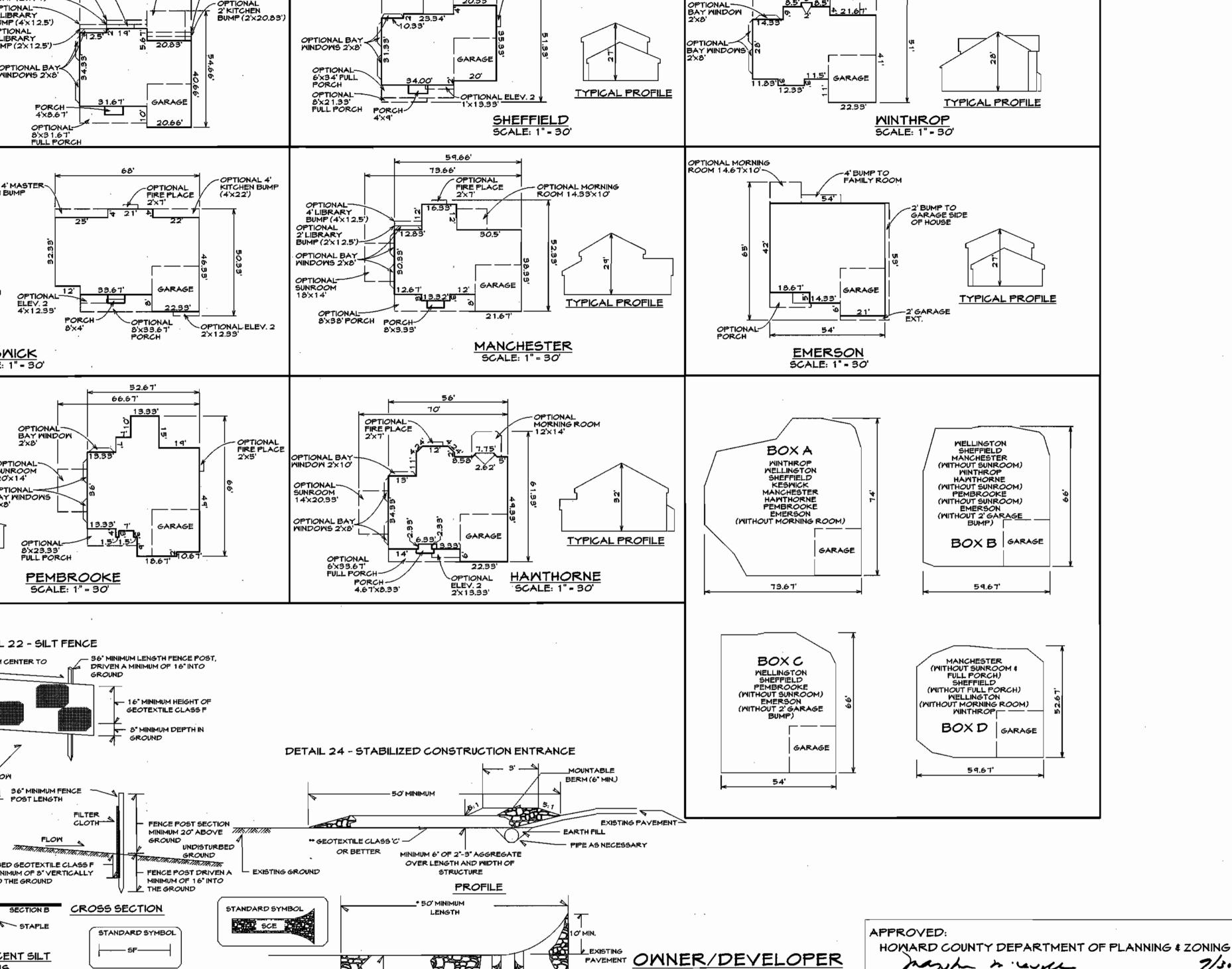
OPTIONAL 4' FAMILY

2' FAMILY BUMP (2'x19')

-OPTIONAL MORNING

18×14 OPTIONAL

4' KITCHEN BUMP (4'x20.88')



-OPTIONAL MORNING ROOM 14.33'x10' _OPT

20.33'

OPTIONAL FIRE PLACE 2'x5'

CARLEE MANOR L.L.C. 3230 BETHANY LANE SUITE 1 ELLICOTT CITY, MD. 21045 PLAN VIEW 410-750-1200

RESIDENCES TO USE GEOTEXTILE. 4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE

500 feet .5:rto 3:1 3:1 to 2:1 250 feet 125 feet 2:1 and steeper NOTE: IN AREAS OF 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

DEVELOPER'S CERTIFICATE

CONSERVATION DISTRICT."

PATRICK COSTELLO,

CARLEE MANOR LL.C.

1/ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND

EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED

IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE

THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOMARD SOIL

AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR

EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE. 5. SURFACE MATER - ALL SURFACE MATER FLOWING TO OR DIVERTED TOMARD 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 MITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS

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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 IN ACCORDANCE MITH THE REQUIREMENTS OF THE HOMARD SOIL CONSERVATION DISTRICT."

PROFESSIONAL ENGINEER REG. No. 23446

ENGINEER'S CERTIFICATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS in myes USDA - NATURAL RESOURCES CONSERVATION SERVICE
THIS DEVELOPMENT PLAN IS THROVED FOR SOIL EROSION AND
SEPIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

NOTES & DETAILS LOTS 1 THROUGH 13 AND 22

> CARLEE MANOR TAX MAP 17, PARCEL 123

2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



MORNING ROOM

Carroll Land Services Incorporated

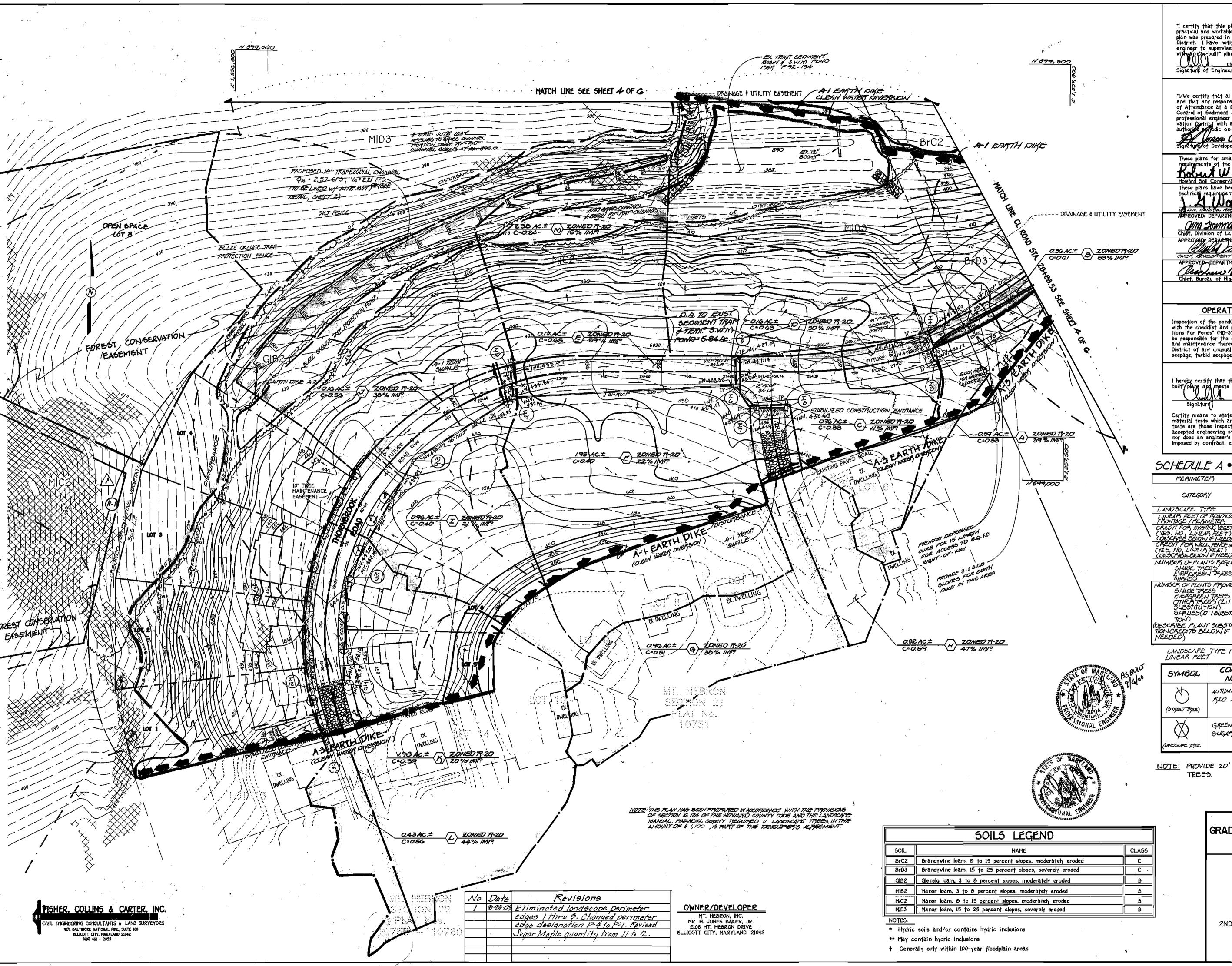
ngineers * Surveyors * Land Development Consultant Landscape Architects * Environmental Specialists 439 Fast Main Street Westminster, MD 21157-5539

(410) 876-2017 FAX (410) 876-0009 Drawn By: BM Designed By: Reviewed By: Scale: AS SHOWN

County File No. S.D.P.94-15

Sheet: 3 **1** 3

JOB NO : 97230A



ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "36-built" plan of the pond within 30 days of completion."

CHARLES T CUMO 28 Signature of Engineer (Print name beside signature)

DEVELOPER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize produce on-site inspections by the Howard Soil Conservation District".

Signature of Developer (Print name beside signature)

Date

3-18-96

APPROVED DEPARTMENT OF PLANVING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION M.K.

APPROVED DEPARTMENT OF PUBLIC WORKS Chief, Bureau of Highways H3

OPERATION, MAINTENANCE AND INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards and Specifications For Ponds" (MD-378). The pond owners(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

AS-BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications. Date 9 6 00

Certify means to state or declare a professional opinion based onsite inspections and material tests which are conducted during construction. The onsite inspections and material tests are those inspections and tests deemed sufficient and appropriate by commonly accepted engineering standards. Certify does not mean or imply a guarantee by the engineer nor does an engineer's certification relieve any other party from meeting requirements imposed by contract, employment, or other means, including meeting commonly accepted

SCHEDULE A • PERIMETER LANDSCAPE EDGE 🛆

	PERIMETER			1.
	CATEGORY			ADJACENT TO PERIMETER PROPERTIES
	LANDSCAPE TYPE			A
	LINEAR FEET OF ROADKAY FRONTAGE / PERIMETER			512'
/	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NIEDED)			YES 365
	CREDIT FOR WALL, FENCE OF BEING (YES, NO. LINEAR, FEET) (DESCRIBE BELOW IF NEEDED)			
	MUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHOUBS	٠.		
	NUMBER OF FLANTS PROVIDED SHADE TREES EVERGREEN TREES CTHER TREES (2:1 SUBSTITUTION) SHRUBS (0:15UBSTITU- TION)			
	(DESCRIBE PLANT SUBSTITU- TION CREDITS BELOW IF NEEDED)		, · ·	

LANDSCAPE TYPE IS A LIGHT BUFFER OF ONE SHADE TREE PER SIXTY LINEAR FEET.

SYMBOL	COMMON NAME	BOTANICAL NAME	5/えだ	QUANTITY
(DIRPET TREE)	AUTUMN FLAME REO MAPLE	ACER ISUBRUM AUTUMN FLAME'	2½" 3" CAL.	16
(LANOSCAPE TISEE	GREEN MOUNTAIN SUGAR, MAPLE	ACER, SACCHARUM GISEEN MOUNTAIN	L'/2" - B" CAL	z 🛆

NOTE: PROVIDE 20' MIN! MUM SPACING BETWEEN STREET LIGHT AND

GRADING, LANDSCAPE, SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP

MT. HEBRON

SECTION 23 LOTS 1-8

TAX MAP No: 17 PARCEL: 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND DATE: MAY 19, 1995 SCALE: 1"=50"

F95-167 AS BUILT

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 and revisions thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified

accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec 51), sod (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 operative condition until permission for their removal has been obtained from the

Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site Area Disturbed 3.89 Acres Area to be roofed or paved 1.43 Acres Area to be vegetatively stabilized 2.46 Acres 1*00* Cu Yds

Offsite waste/borrow area location will be to a site with an approved sediment control plan and an approved and open grading permit 8. Any sediment control practice, which is disturbed by grading activity for

of utilities, must be repaired on the same day of disturbance. 9. Additional sediment control must be provided, if deemed necessary by the

County Sediment Control Inspector. 10. On all sites with disturbed areas in excess of 2 acres, approval of the

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.

 ${\bf 1}\,{\bf 1}.$ Trenches for the construction of utilities is limited to three pipe lengths back-filled and stabilized by the end of each workday, whichever is

Topsoil Notes

Rev. 9/99

Construction and Material Specifications

I. 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 Experimental Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following: i. 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 subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 «" in diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack

grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified. iii. 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 soll in conjunction with tillage operations as described in the following procedures.

III. For sites having disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as specified in $20.0\,$ Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

IV. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: Page 2

Topsoil Notes a) 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

b) Organic content of topsoil shall be not less than 1.5 percent by weight. c) Topsoil having soluble salt content greater than 500 parts per million shall d) No sod 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 phyto-toxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority,

may be used in lieu of natural topsoil. ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation. iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil. iv. 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. Page 3 Topsoil Notes

v. 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 seedbed preparation. VI. 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: i. 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 reauirements

a) 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 26.04.06. b) 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. c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet. ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

NOTE:

ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with vegetative or non-vegetative practices.

<u>Standards:</u> The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Management Administration, the National Resource Conservation Service, and the State Soil Conservation Committee.

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C. 2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre

(15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-B. 3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the

requirements in G-20 Sec. 1-B. 4. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-C.

5. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F, G and H.

6. Seeding mixtures shall be selected from or will be equal to those on Table 26. 7. The following is one option, approved equals may be used.

Temporary Seeding Summary

Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)						
	Application	Seeding	Seeding			
No. Species	Rate(lb/ac)	Dates	Depths			
N/A Kentucky-31	80	3/1 to 11/15	1"			
Annual Rye	20	3/1 to 11/15	1/4" - 1/2			

PERMANENT SEEDING NOTES

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Manager Administration, the National

Resource Conservation Service, and the State Soil Conservation Committee

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C.

2. For sites over 5 ac. soil tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Soils tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in G-20 Sec. 1-C-ii, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21. 3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply.

4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N-90 lb per acre (2 lb per 1000 sq. ft.) P205-175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in 6-20 Sec. 1-B.

5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in G-20 Sec. 1-B.

6. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-c.

Permanent Seeding Summary

7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F.G & H.

8. Refer to G-20 Sec. 1-E for Methods of Seeding specifications.

9. Refer to G-20 Sec. 4 for Sod specifications.

10. Refer to G-20 Sec. 5 for Turfgrass Establishment specifications 1 1. Seeding mixtures shall be selected from or will be equal to those on Table 25.

12. The following is one option, approved equals may be used.

N 10 P205 10 K20 10

Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)

	Application	Seeding	Seeding
No. Species	Rate (lb/ac)	Dates	Depths
N/A Triple Fine Fescue	160	3/1 to 10/30	1"-2"
Perennial Rye	40	3/1 to 10/30	1"-2"

Tracking note:

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

UTILITY CONSTRUCTION NOTES

1. Place all excavated material on the high side of the trench.

2. Only do as much work as can be done in one day so backfilling, final grading, and permanent stabilization can occur.

3. Any sediment control measures disturbed by the utility construction will be repaired the same day.

STOCKPILE/TOPSOIL NOTES 1. Stockpiling will not be allowed on any impervious area.

2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls.

3. All stockpile areas shall be confined within perimeter controls. In the event that stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field.

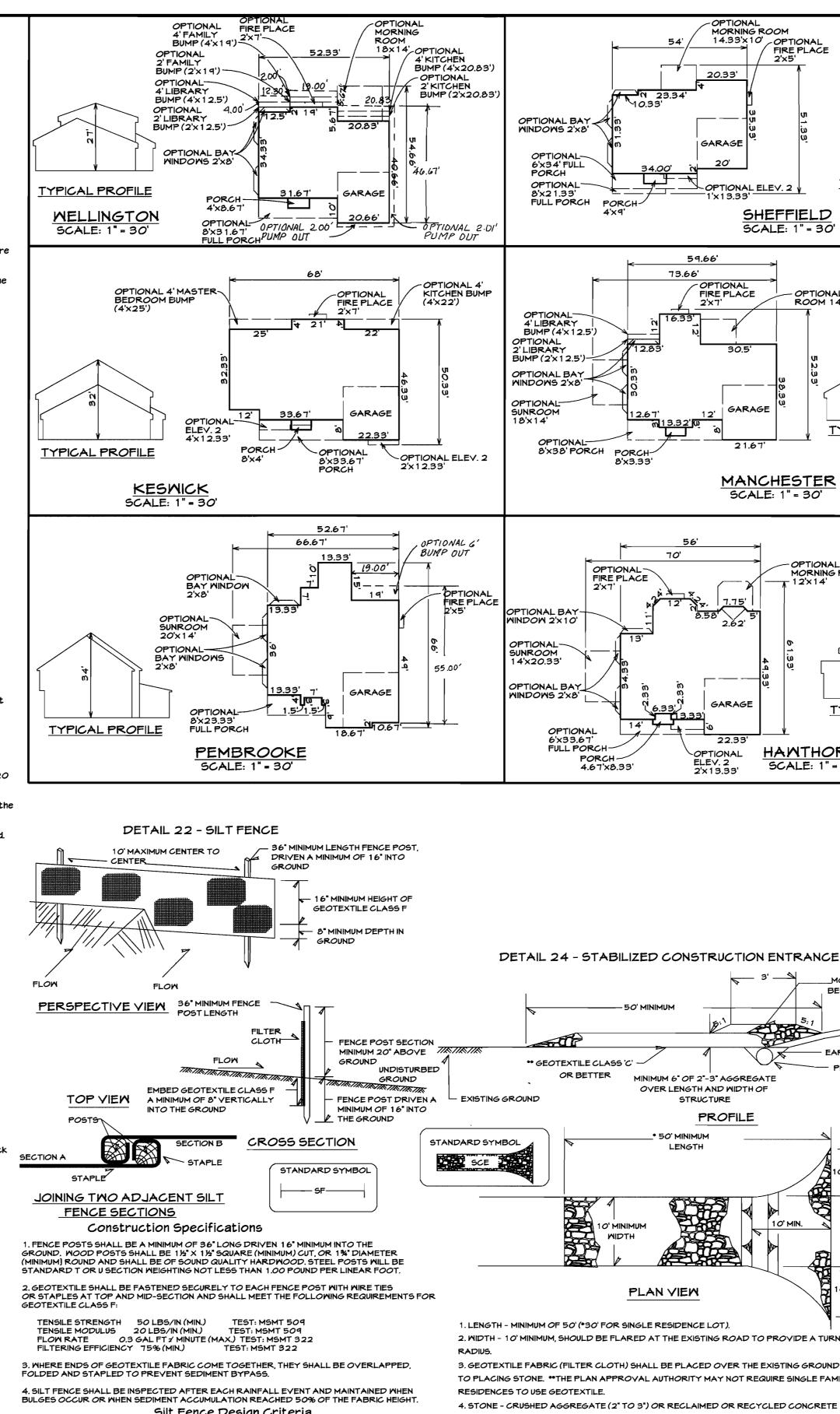
SEQUENCE OF CONSTRUCTION

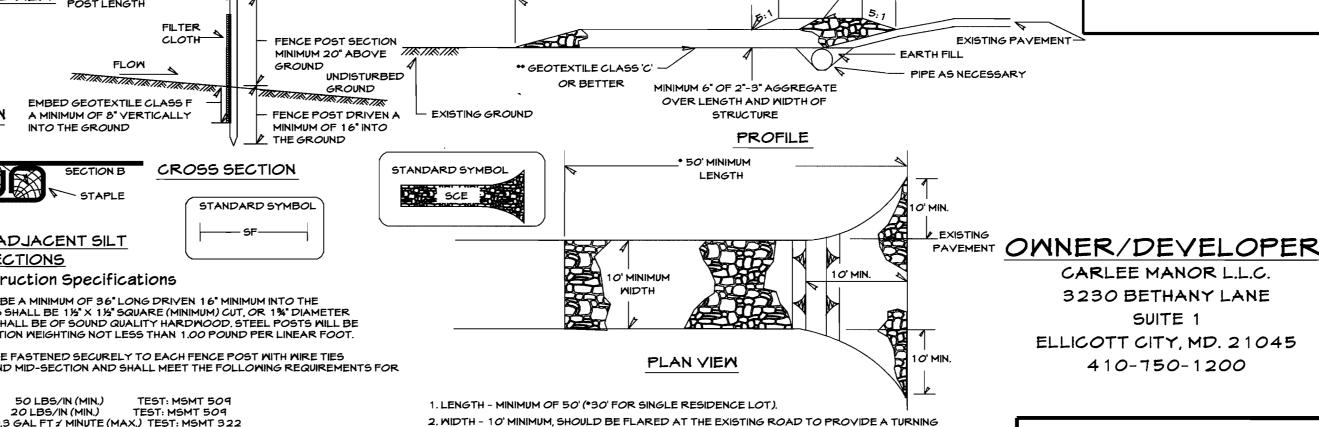
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TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY

RESIDENCES TO USE GEOTEXTILE. Silt Fence Design Criteria (Maximum) (Maximum)

Silt Fence Length Slope Length Slope Steepness ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE Flatter than 50: 1.000 feel 50:1 to 10:1 125 feet 100 feet 750 feet 60 fee 500 feet 250 feet 125 feet 2:1 and steepe

NOTE: IN AREAS OF 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.

DEVELOPER'S CERTIFICATE

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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 INSPECTIONS BY THE HOWARD SOIL

10:1 to 5:1

5:1"to 3:1

3:1 to 2:1

PATRICK COSTELLO CARLEE MANOR L.L.

ELLICOTT CITY, MD. 21045 3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR

-OPTIONAL MORNING ROOM

20.33

GARAGE

59.66

2'x7'

FIRE PLACE

GARAGE

GARAG

OPTIONAL

MANCHESTER

SCALE: 1" = 30'

73.66

70'

OPTIONAL-

4.67'x8.33'

FIRE PLACE

10.33'

14.33'x10' OPTIONAL FIRE PLACE

2'x5'

SHEFFIELD SCALE: 1" = 30'

ROOM 14.33'x10'

MORNING ROOM

HAMTHORNE

SCALE: 1" = 30

OPTIONAL— BAY MINDOM 2'x8'

PTIONAL

TYPICAL PROFILE

TYPICAL PROFILE

TYPICAL PROFILE

_MOUNTABLE

BERM (6" MIN.)

EXISTING PAVEMENT

BAY WINDOWS

OPTIONAL MORNING ROOM 14.67'x10'

OPTIONAL-PORCH

4. 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 5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION

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. 6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING

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 IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." ALFRED L. HANSARD PROFESSIONAL ENGINEER REG. No. 23446

THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCION ENTRANCE. REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS USPA - NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS THE OWARD SOIL EROSION AND SEPIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

9/15/03

CARLEE MANOR L.L.C.

3230 BETHANY LANE

SUITE 1

410-750-1200

APPROVED: HOMARD COUNTY DEPARTMENT OF PLANNING & ZONING

> NOTES & DETAILS LOTS 1 THROUGH 13 AND 22 CARLEE MANOR

TAX MAP 17, PARCEL 123

MORNING ROOM

SCALE: 1" = 30'

-2' BUMP TO GARAGE SIDE OF HOUSE

-4' BUMP TO FAMILY ROOM

GARAGE

754']

EMERSON

SCALE: 1" = 30

GARAGE

WINTHROP

WELLINGTON

SHEFFIELD

KESMICK

MANCHESTER

HAMTHORN

PEMBROOKE

EMERSON

(WITHOUT MORNING ROOM)

73.67

BOXC

WELLINGTON

SHEFFIELD

PEMBROOKE

(WITHOUT SUNROOM

EMERSON

(WITHOUT 2'GARAGE

GARAGE

TYPICAL PROFILE

TYPICAL PROFILE

SHEFFIELD

(MITHOUT SUNROOM)

WINTHROP

HAMTHORNE

(MITHOUT SUNROOM) PEMBROOKE

(WITHOUT SUNROOM)

EMERSON

(MITHOUT 2'GARAGE

59.67

FULL PORCH)

WELLINGTON

(WITHOUT MORNING ROOM)

59.67

BOX D GARAGE

BOX B GARAGE

MANCHESTER

2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

54.34

BOX "E"

WELLINGTON

ALL OPTIONS

PEMBROOK

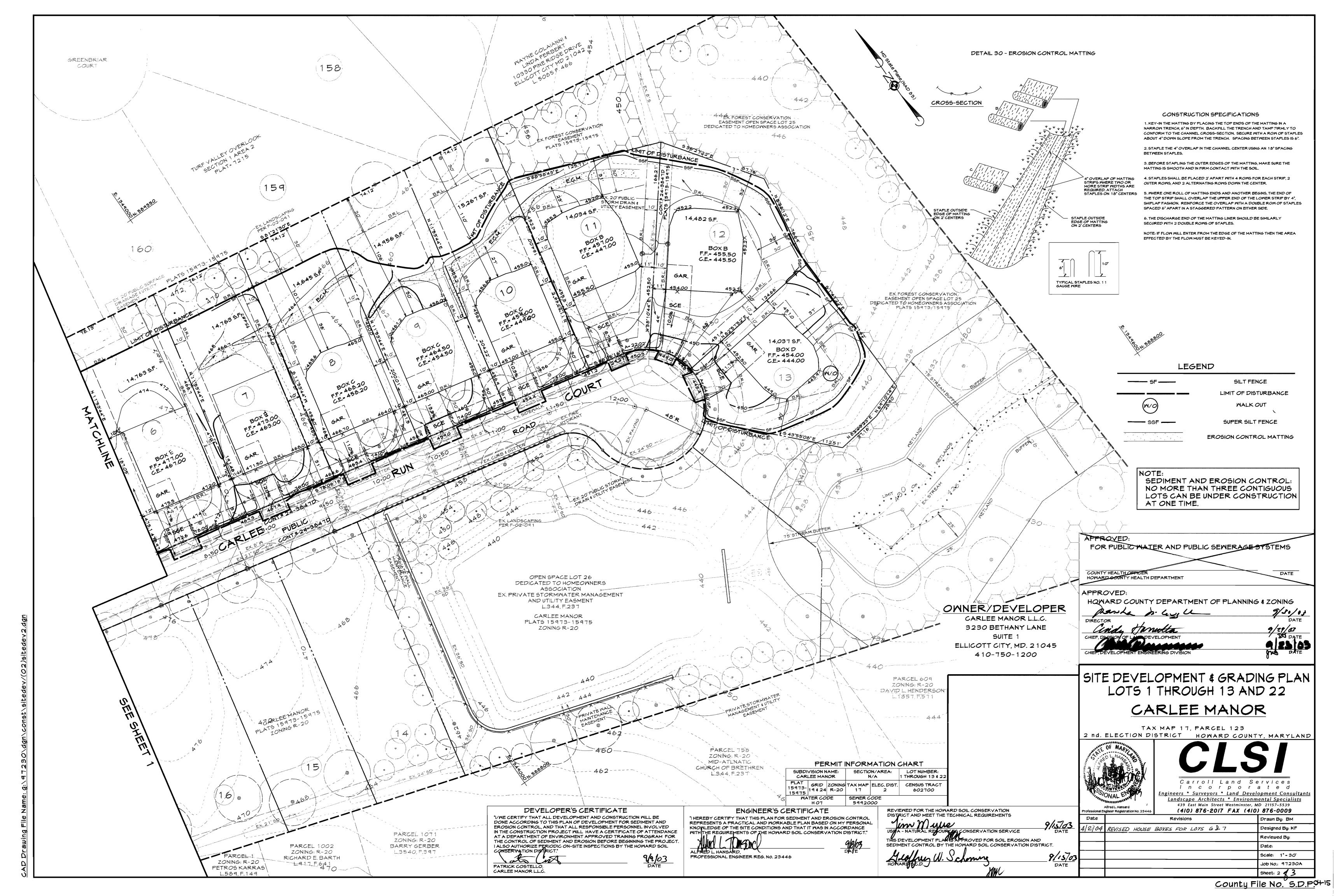
GARAGE

Carroll Land Services Incorporated ngineers * Surveyors * Land Development Consultant Landscape Architects * Environmental Specialists

439 East Main Street Westminster, MD 21157-5539 Alfred L Hansard (410) 876-2017 FAX (410) 876-0009 Drawn By: BM REVISED HOUSE BOXES AND ADDED GENERIC BOX "E Designed By:

Reviewed By: Scale: AS SHOWN Job No.: 97230A Sheet: 3 1 3

County File No. S.D.P.94-15



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 and revisions thereto. 3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stablized within the time period specified accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS

FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (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

operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site 13.31 Acres 3.89 Acres Area Disturbed Area to be roofed or paved 1.43 Acres

Area to be vegetatively stabilized 2.46 Acres

Offsite waste/borrow area location will be to a site with an approved sediment control plan and an approved and open grading permit.

8. Any sediment control practice, which is disturbed by grading activity for of utilities, must be repaired on the same day of disturbance

9. Additional sediment control must be provided, if deemed necessary by the County Sediment Control Inspector

10. On all sites with disturbed areas in excess of 2 acres, approval of the 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.

11. Trenches for the construction of utilities is limited to three pipe lengths which shall be back-filled and stabllized by the end of each workday, whichever is

Topsoil Notes

Rev. 9/99

Construction and Material Specifications I. 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 soll type can be found in the representative soll profile section in the Soll Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the following: i. 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 subsolls and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 «" in diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified. iii. 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 soll in conjunction with

tillage operations as described in the following procedures. III. For sites having disturbed areas under 5 acres i. Place topsoil (if required) and apply soil amendments as specified in 20.0

Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. IV. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoll specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

Topsoil Notes a) 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 hlahei

b) Organic content of topsoil shall be not less than 1.5 percent by weight. c) Topsoil having soluble salt content greater than 500 parts per million shall not be used. d) No sod or seed shall be placed on soil which has been treated with soil

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ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope slit fence and sediment traps and basins

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"~8" higher in elevation lii. Topsoll shali be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner

that sodding or seeding can proceed with a minimum of additional soil iv. 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.

Page 3 Topsoil Notes

v. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoll is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as

I. Composted Sludge Material for use as a soll 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

a) 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 26.04.06. b) 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 c) Composted siudge shall be applied at a rate of 1 ton/1,000 square feet. ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

NOTE: ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with vegetative or non-vegetative practices.

Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Management Administration, the National Resource Conservation Service, and the State Soil Conservation Committee.

incorporating the Ilme and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C. 2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre (15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-B.

3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in G-20 Sec. 1-B.

4. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-C.

5. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F, G and H.

6. Seeding mixtures shall be selected from or will be equal to those on Table 26. 7. The following is one option, approved equals may be used.

Temporary Seeding Summary

Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5) Depths N/A Kentucky-31 80 3/1 to 11/15 20 1/4" - 1/2" 3/1 to 11/15 Annual Rue

PERMANENT SEEDING NOTES

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL* Published jointly by the Maryland Department of Environment - Water Manager Administration, the National Resource Conservation Service, and the State Soll Conservation Committee.

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the ilme and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C.

2. For sites over 5 ac. soil tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Solls tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in G-20 Sec. 1-G-II, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21.

3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply. 4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N-90 lb per acre (2 lb per 1000 sq. ft.) P205-175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in G-20

Sec. 1-B. 5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements In G-20 Sec. 1-B.

6. Seed tags shall be made available to the inspector to verify the type and rate of seed used The seed must meet the requirements in G-20 Sec. 1-c.

7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F,G & H.

8. Refer to G-20 Sec. 1-E for Methods of Seeding specifications. 9. Refer to 6-20 Sec. 4 for Sod specifications.

10. Refer to G-20 Sec. 5 for Turfgrass Establishment specifications 11. Seeding mixtures shall be selected from or will be equal to those on Table 25. 12. The following is one option, approved equals may be used.

Permanent Seeding Summary

N 10 P205 10 K20 10

Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)

Application N/A Triple Fine Fescue 3/1 to 10/30 1"-2" 3/1 to 10/30 1"-2" Perennial Rue

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required it shall be done from existing grade level to finished grade level within the limits established by the &'height criteria.

UTILITY CONSTRUCTION NOTES

1. Place all excavated material on the high side of the trench.

2. Only do as much work as can be done in one day so backfilling, final grading, and

permanent stabilization can occur. 3. Any sediment control measures disturbed by the utility construction will be repaired the same day

STOCKPILE/TOPSOIL NOTES

1. Stockpiling will not be allowed on any impervious area.

2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls. 3. All stockpile areas shall be confined within perimeter controls. In the event that

stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field

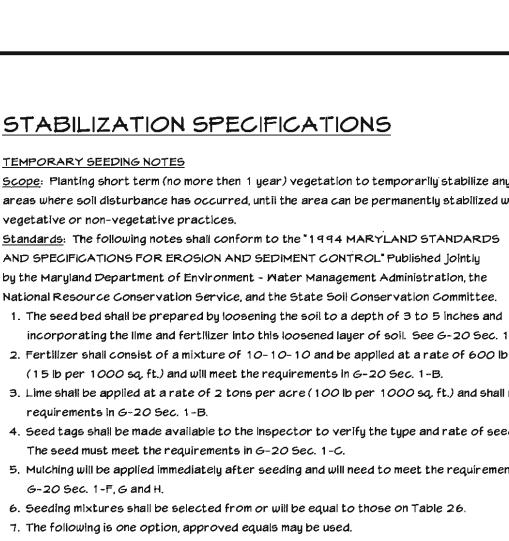
SEQUENCE OF CONSTRUCTION

. OBTAIN GRADING PERMIT. (1 DAY) 2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN PER L*O*T.(2 DAYS)

3. CONSTRUCT DWELLING. (90 DAYS) 4. FINE GRADE LOT AND INSTALL DRIVEWAY AND SIDE WALKS. (1 DAY)

5. INSTALL PERMANENT SEEDING AND MULCHING.(1 DAY)

6. INSTALL LANDSCAPING. (1 DAY) 7. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR. REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)



OPTIONAL MORNING OPTIONAL 4' FAMILY FIRE PLACE MORNING ROOM 14.33 × 10' OPTIONAL FIRE PLACE ROOM 18×14 OPTIONAL OPTIONAL 2'x5' 4'KITCHEN 2' FAMILY BUMP (4'x20.83') BUMP (2'x 1 9') 20.33 OPTIONAL 2'KITCHEN BUMP (2'x20,83') 4' LIBRARY BUMP (4'x12.5') OPTIONAL 2'LIBRARY MINDOMS 2'x8' GARAGE OPTIONAL BAY MINDOMS 2'x8' 6×34 FULL PORCH **OPTIONAL** -OPTIONAL ELEV. 2 TYPICAL PROFILE 8 x2 1.33 GARAGE FULL PORCH PORCH <u> MELLINGTON</u> OPTIONAL 2.00' SCALE: 1" = 30' PUMP DUT 59.66 73.66 OPTIONAL FIRE PLACE OPTIONAL 4' OPTIONAL 4' MASTER -BEDROOM BUMP (4'x25') OPTIONAL KITCHEN BUMF 2'x7' FIRE PLACE (4'x22') 2'x7' 4 LIBRARY BUMP (4'x 12.5') OPTIONAL 2'LIBRARY BUMP (2'x 1 2.5') OPTIONAL BAY MINDOMS 2'X

~OPTIONAL ELEV. 2

2'x12.33'

GARAGE

8'x33.67'

. 36" MINIMUM LENGTH FENCE POST

- 16" MINIMUM HEIGHT OF

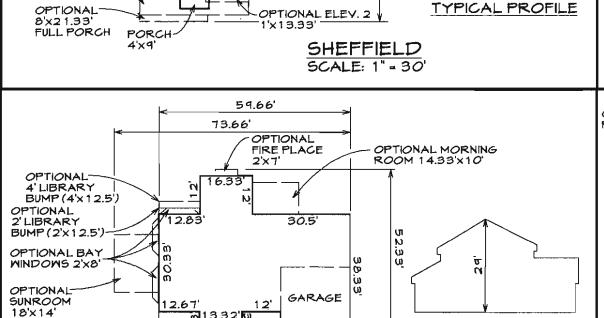
8" MINIMUM DEPTH IN

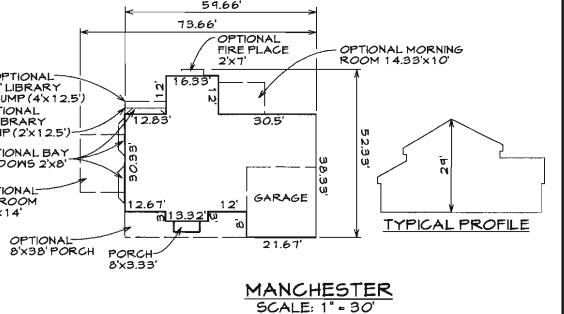
FENCE POST SECTION

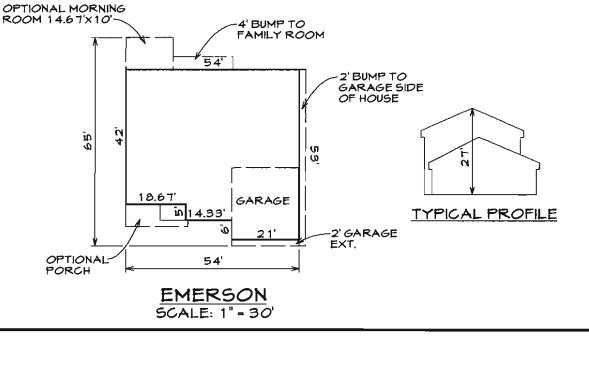
GROUND

MINIMUM 20" ABOVE TINTINT

DRIVEN A MINIMUM OF 16" INTO

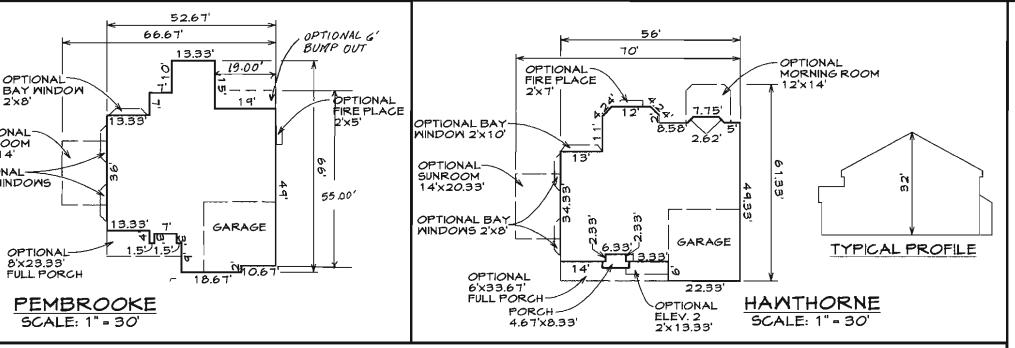






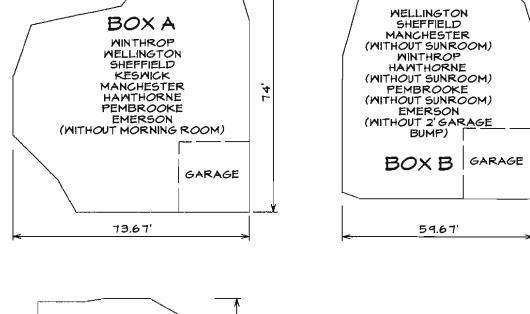
SCALE: 1" - 30

GARAGE



** GEOTEXTILE CLASS 'C'

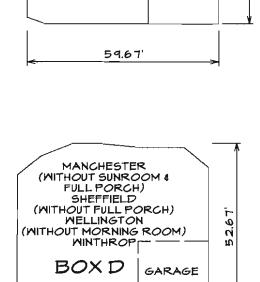
OR BETTER



OPTIONAL— BAY WINDOW

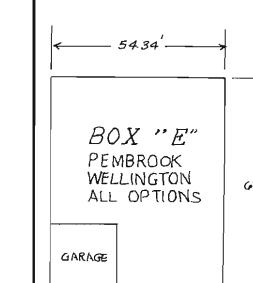
PTIONAL

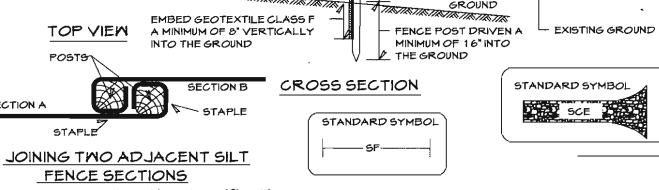
BAY MINDOMS



59.67

TYPICAL PROFILE





36" MINIMUM FENCE

FLOW

TI&TI&TI&TI&TI&TI&TI&TI

CLOTH

POST LENGTH

OPTIONAL-

PORCH-

ELEV. 2

SCALE: 1" = 30

SUNROOM

OPTIONAL-

BAY MINDOMS

DETAIL 22 - SILT FENCE

10 MAXIMUM CENTER TO

CENTER_

PERSPECTIVE VIEW

50:1 to 10:1

10:1 to 5:1

.5:1° to 3:1

3:1 to 2:1

CONSERVATION DISTRICT

PATRICK COSTELLO. CARLEE MANOR LL.C.

TYPICAL PROFILE

TYPICAL PROFILE

Construction Specifications

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. MOOD POSTS SHALL BE 11/2" X 11/2" SQUARE (MINIMUM) CUT, OR 11/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD TOR U SECTION WEIGHTING NOT LESS THAN 1.00 POUND PER LINEAR FOOT 2. 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

FENSILE STRENGTH 50 LBS/IN (MIN.) TENSILE MODULUS 20 LBS/IN (MIN.) 0.8 GAL FT / MINUTE (MAX.) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.) TEST: MSMT 322

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED. FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.

4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT

Silt Fence Design Criteria

(Maximum) (Maximum) Slope Length Silt Fence Length Slope Steepness Flatter than 50: 125 feet 1,000 feet 100 fee 750 fee 500 feet 60 feet 250 feet 125 feet 2:1 and steepe

NOTE: IN AREAS OF 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.

DEVELOPER'S CERTIFICATE

"I/ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND

EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED

I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL

IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE

THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR

PROFILE 50' MINIMUM STANDARD SYMBOL LENGTH SCE INC. MIDTH PLAN VIEW

MINIMUM 6" OF 2"-3" AGGREGATE

OVER LENGTH AND WIDTH OF

STRUCTURE

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

MOUNTABLE

- EARTH FILL

BERM (6" MIN.)

- PIPE AS NECESSARY

EXISTING PAVEMENT

REVIEWED FOR THE HOWARD SOIL CONSERVATION

DISTRICT AND MEET THE TECHNICAL REQUIREMENTS

JSDA - NATURAL RESOURCES CONSERVATION SERVICE
HIS DEVELOPMENT PLAN IS HOVED FOR SOIL EROSION AND
DISTRESSION DISTR

HOWARD SOIL CONSERVATION DISTRICT.

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT). 2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING

3. 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.

4. 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

5. 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. 6. 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 CONSTRUCION ENTRANCE.

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL

KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS IN ACCORDANCE

WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

PROFESSIONAL ENGINEER REG. No. 23446

REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL

PAVEMENT OWNER/DEVELOPER CARLEE MANOR L.L.C. 3230 BETHANY LANE SUITE 1 ELLICOTT CITY, MD. 21045 410-750-1200

BOXC

MELLINGTON SHEFFIELD

PEMBROOKE

(MITHOUT SUNROOM)

EMERSON (MITHOUT 2' GARAGE

BUMP)

GARAGE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING



TAX MAP 17, PARCEL 123



2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND Incorporated

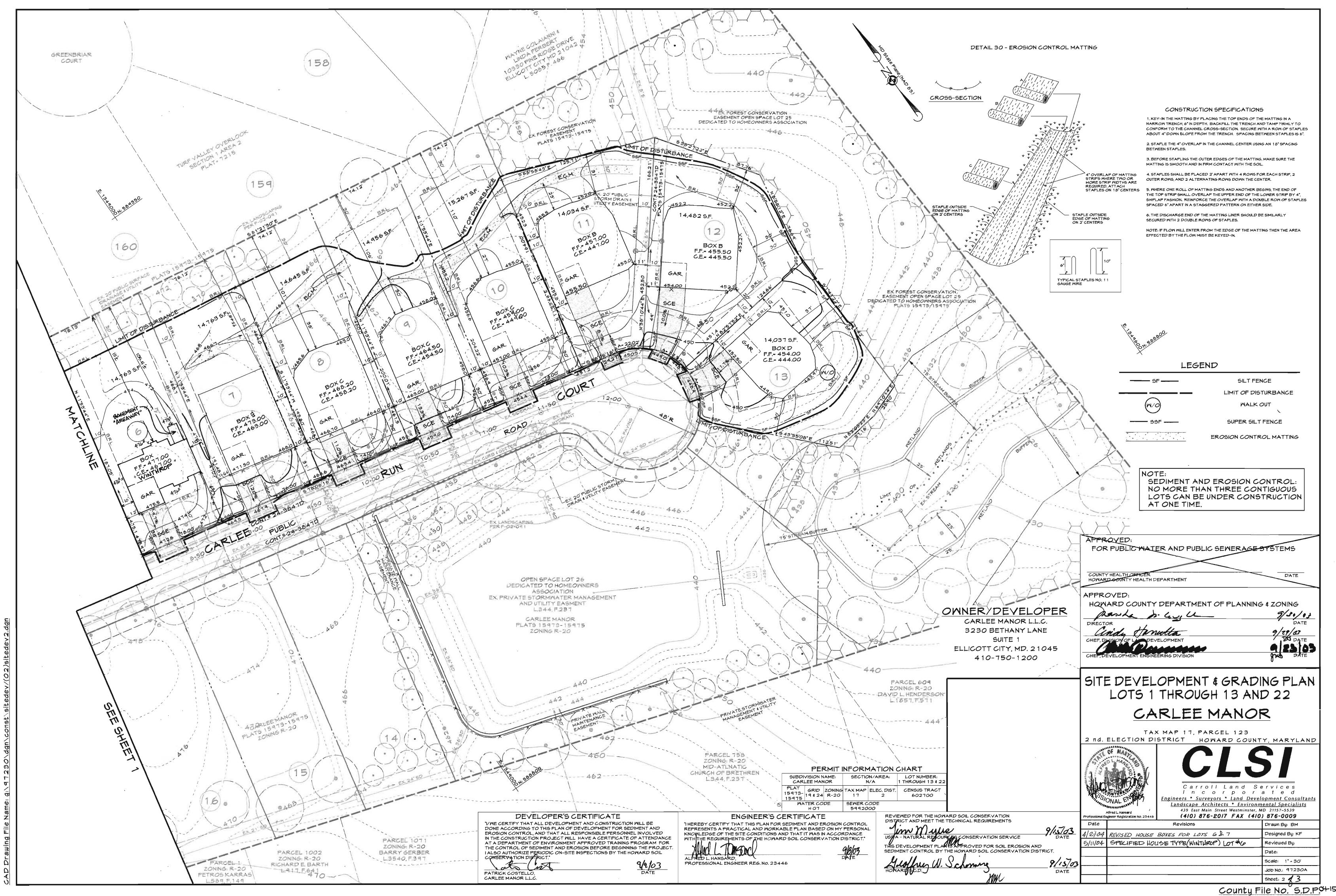
ngineers * Surveyors * Land Development Consultant Landscape Architects * Environmental Specialists 439 East Main Street Westminster, MD 21157-5539

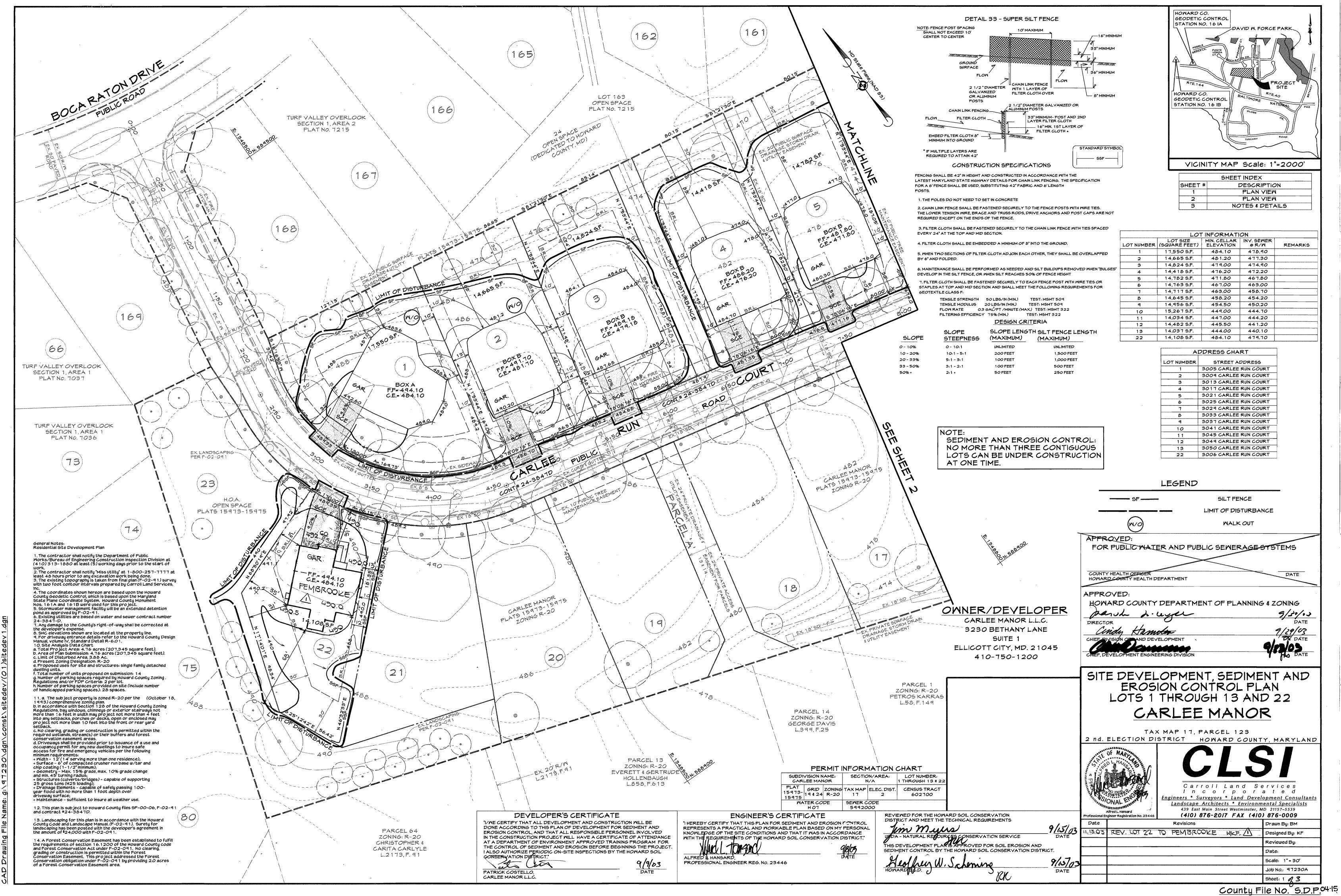
(410) 876-2017 FAX (410) 876-0009 Revisions Drawn By: BM REVISED HOUSE BOXES AND ADDED GENERIC BOX "E" Desianed Bu: ADD OPTIONAL BUMP OUT TO FAMILY ROOM AND Reviewed Bu OPTIONAL FIREPLACE TO WINTHROP MODEL Scale: AS SHOWN

County File No. S.D.P.94-15

Job No.: 97230A

Sheet: 3 1 3





HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- 1. 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).
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- 3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOMARD COUNTY DESIGN MANUAL, Storm Drainage.
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SEDIMENT CONTROL and revisions thereto

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Rev. 9/99

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b) Organic content of topsoil shall be not less than 1.5 percent by weight.

- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil. ii. Place topsoil (if required) and apply soil amendments as specified in 20.0
- Vegetative Stabilization Section I Vegetative Stabilization Methods and Materials. V. Topsoil Application
- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation. iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to
- that sodding or seeding can proceed with a minimum of additional soil. iv. 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.

a minimum thickness of 4". Spreading shall be performed in such a manner

Page 3 Topsoil Notes

- y. 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 seedbed preparation VI. 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:
- i. 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:
- a) 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 26.04.06. b) 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. c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet. ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.
- NOTE: ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with vegetative or non-vegetative practices.

Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Management Administration, the National Resource Conservation Service, and the State Soil Conservation Committee.

- 1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and
- incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C. 2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre
- (15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-B. 3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the
- requirements in G-20 Sec. 1-B. 4. Seed tags shall be made available to the inspector to verify the type and rate of seed used.
- 5. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F, G and H.
- 6. Seeding mixtures shall be selected from or will be equal to those on Table 26.

7. The following is one option, approved equals may be used.

The seed must meet the requirements in G-20 Sec. 1-C.

	Temporary See	ding Summary		
Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)				
	Application	Seeding	Seeding	
No. Species	Rate (lb/ac)	Dates	Depths	
N/A Kentucky-31	80	3/1 to 11/15	1*	

PERMANENT SEEDING NOTES

Annual Rye

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the 1994 MARYLAND STANDARDS

3/1 to 11/15 1/4" - 1/2"

- AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Mater Manager Administration, the National Resource Conservation Service, and the State Soil Conservation Committee. 1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and
- incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C. 2. For sites over 5 ac. soil tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Soils tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in G-20 Sec. 1-C-ii, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21.
- 3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply. 4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N=90 lb per acre (2 lb per 1000 sq. ft.) P205=175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in G-20
- 5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in G-20 Sec. 1-B.
- 6. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-c.
- 7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F.G \$ H.
- 8. Refer to G-20 Sec. 1-E for Methods of Seeding specifications.
- 9. Refer to 6-20 Sec. 4 for Sod specifications.
- 10. Refer to G-20 Sec. 5 for Turfgrass Establishment specifications. 1 1. Seeding mixtures shall be selected from or will be equal to those on Table 25.
- 12. The following is one option, approved equals may be used.

Permanent Seeding Summary

N 10 P205 10 K20 10 Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness Zone 6B/7A (G-20 Figure 5)

Application	Seeding	Seeding
Rate (lb/ac)	Dates	Depths
160	3/1 to 10/30	1"-2"
40	3/1 to 10/30	1"-2"
	Rate (lb/ac) 160	Rate (lb/ac) Dates 160 3/1 to 10/30

Tracking note:

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

UTILITY CONSTRUCTION NOTES

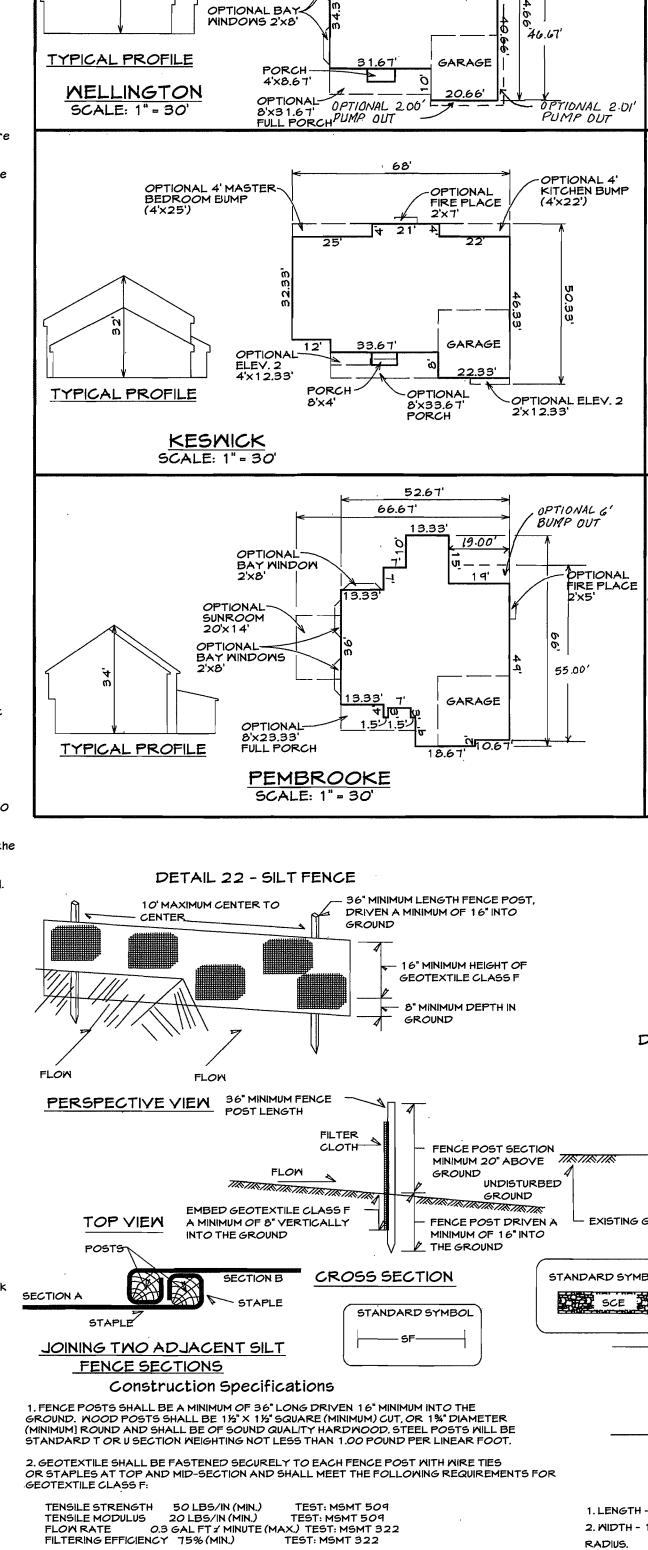
- Place all excavated material on the high side of the trench.
- 2. Only do as much work as can be done in one day so backfilling, final grading, and permanent stabilization can occur.
- 3. Any sediment control measures disturbed by the utility construction will be repaired

STOCKPILE/TOPSOIL NOTES

- 1. Stockpiling will not be allowed on any impervious area.
- 2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls.
- 3. All stockpile areas shall be confined within perimeter controls. In the event that stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (1 DAY) 2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN
- PER LOT. (2 DAYS) 3. CONSTRUCT DWELLING. (90 DAYS) 4. FINE GRADE LOT AND INSTALL
- DRIVEWAY AND SIDE WALKS. (1 DAY) 5. INSTALL PERMANENT SEEDING AND
- MULCHING. (1 DAY) 6. INSTALL LANDSCAPING. (1 DAY) 7. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR. REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)



4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED MHEN

(Maximum)

Slope Length

unlimited

125 feet

100 feet

60 feet

40 feet

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION

SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND

EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED

AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR

I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL

THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT

IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE

UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL

Slope Steepness

Flatter than 50:

10:1 to 5:1

.5:1° to 3:1

3:1 to 2:1

PATŘICK COSTĚLLO CARLEE MANOR L.L.C

REQUIRED

2:1 and steeper

50:1 to 10:1

BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT

Silt Fence Design Criteria

(Maximum)

Silt Fence Length

unlimited

750 feet

500 feet

250 feet

125 feet

1,000 feet

FIRE PLACE

OPTIONAL

OPTIONAL-

4' LIBRARY BUMP (4'x12.5')

LIBRARY

BUMP (2'x 12.5')

OPTIONAL 4,00

BUMP (2'x19')

MORNING

18x14 OPTIONAL

BUMP (4'x20.83')

2' KITCHEN BUMP (2'x20.83')

OPTIONAL BAY WINDOWS 2'x8'

6'x34' FULL

3'x21.33'

OPTIONAL-

3UMP (2'x 1 2.5')-

MINDOMS 2'x8'

INDOM 2'x10'

1*4*'x*20*.33'

OPTIONAL BAY WINDOMS 2'x8'

OPTIONAL 6'x33.67' FULL PORCH-

PORCH-

4.67'x8.33

SUNROOM 18'x14'

PTIONAL

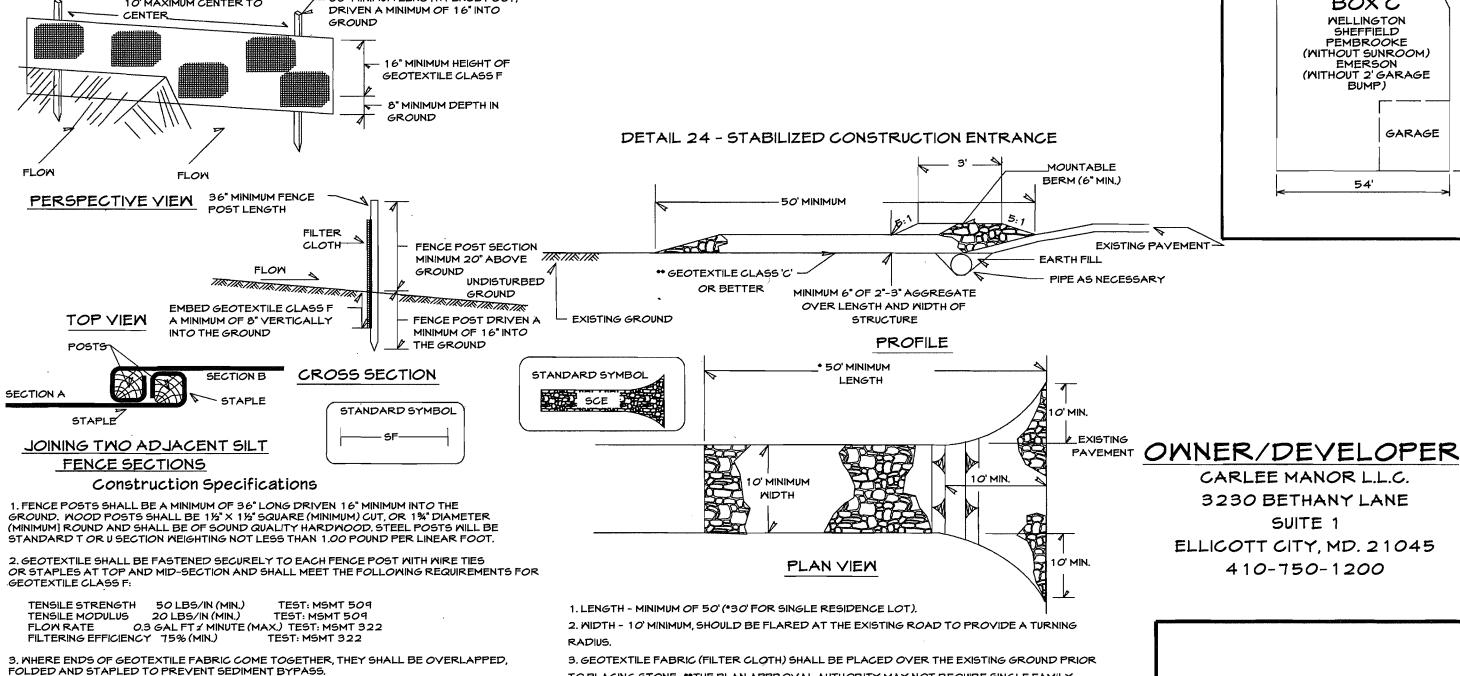
LIBRARY

BUMP (4'x12.5')

FULL PORCH PORCH-

8'X38' PORCH PORCH

PORCH



3. 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 4. 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

5. SURFACE MATER - ALL SURFACE MATER 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. 6, 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 CONSTRUCION ENTRANCE.

NOTES & DETAILS LOTS 1 THROUGH 13 AND 22 CARLEE MANOR

HOMARD COUNTY DEPARTMENT OF PLANNING & ZONING

TAX MAP 17, PARCEL 123 2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ngineers * Surveyors * Land Development Consultants Landscape Architects * Environmental Specialists 439 East Main Street Westminster, MD 21157-5539 (410) 876-2017 FAX (410) 876-0009

REVISED HOUSE BOXES AND ADDED GENERIC ROX "E" ADD OPTIONAL BUMP OUT TO FAMILY ROOM AND OPTIONAL FIREPLACE TO WINTHROP MODEL

Sheet: 3 1/3

- *54.34* —

BOX "E"

WELLINGTON

ALL OPTIONS

9/29/03

GARAGE

PEMBROOK

ENGINEER'S CERTIFICATE HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL

ALFRED L. HANSARD,

REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNQWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

PROFESSIONAL ENGINEER REG. No. 23446

MORNING ROOM

OPTIONAL—BAY WINDOM

BAY WINDOWS

ROOM 14.67'×10'-

OPTIONAL-

TYPICAL PROFILE

TYPICAL PROFILE

TYPICAL PROFILE

ROOM 14.33'×10

MORNING ROOM

-12'x14'

HAMTHORNE

SARAG

54'

EMERSON SCALE: 1" = 30

GARAGE

BOX A

MELLINGTON SHEFFIELD

KESMICK

MANCHESTER

PEMBROOKE

EMERSON

(WITHOUT MORNING ROOM)

73.67

BOXC

WELLINGTON

SHEFFIELD PEMBROOKE (MITHOUT SUNROOM)

EMERSON

GARAGE

(MITHOUT 2'GARAGE

54'

CARLEE MANOR L.L.C.

3230 BETHANY LANE

SUITE 1

ELLICOTT CITY, MD. 21045

410-750-1200

HAMTHORN

FAMILY ROOM

GARAGE

TYPICAL PROFILE

TYPICAL PROFILE

MELLINGTON SHEFFIELD

MANCHESTER

(MITHOUT SUNROOM)

WINTHROP HAMTHORNE

(MITHOUT SUNROOM)

PEMBROOKE (MITHOUT SUNROOM)

(MITHOUT 2'GARAGE

59.67

MANCHESTER

(MITHOUT SUNROOM &

(WITHOUT FULL PORCH)

(WITHOUT MORNING ROOM)
WINTHROP

BOX D GARAGE

59.67

BOX B GARAGE

GARAGE SIDE

OF HOUSE

14.33'x1*0*'

GARAGE

1'×13.33'

FIRE PLACE 2'x7'

GARAGE

GARAGE

MANCHESTER

59.66'

73.66

70'

USPA - NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS THE OVER FOR SOIL EROSION AND SEPIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. 9/15/03

REVIEWED FOR THE HOWARD SOIL CONSERVATION

DISTRICT AND MEET THE TECHNICAL REQUIREMENTS

Alfred L. Hansard

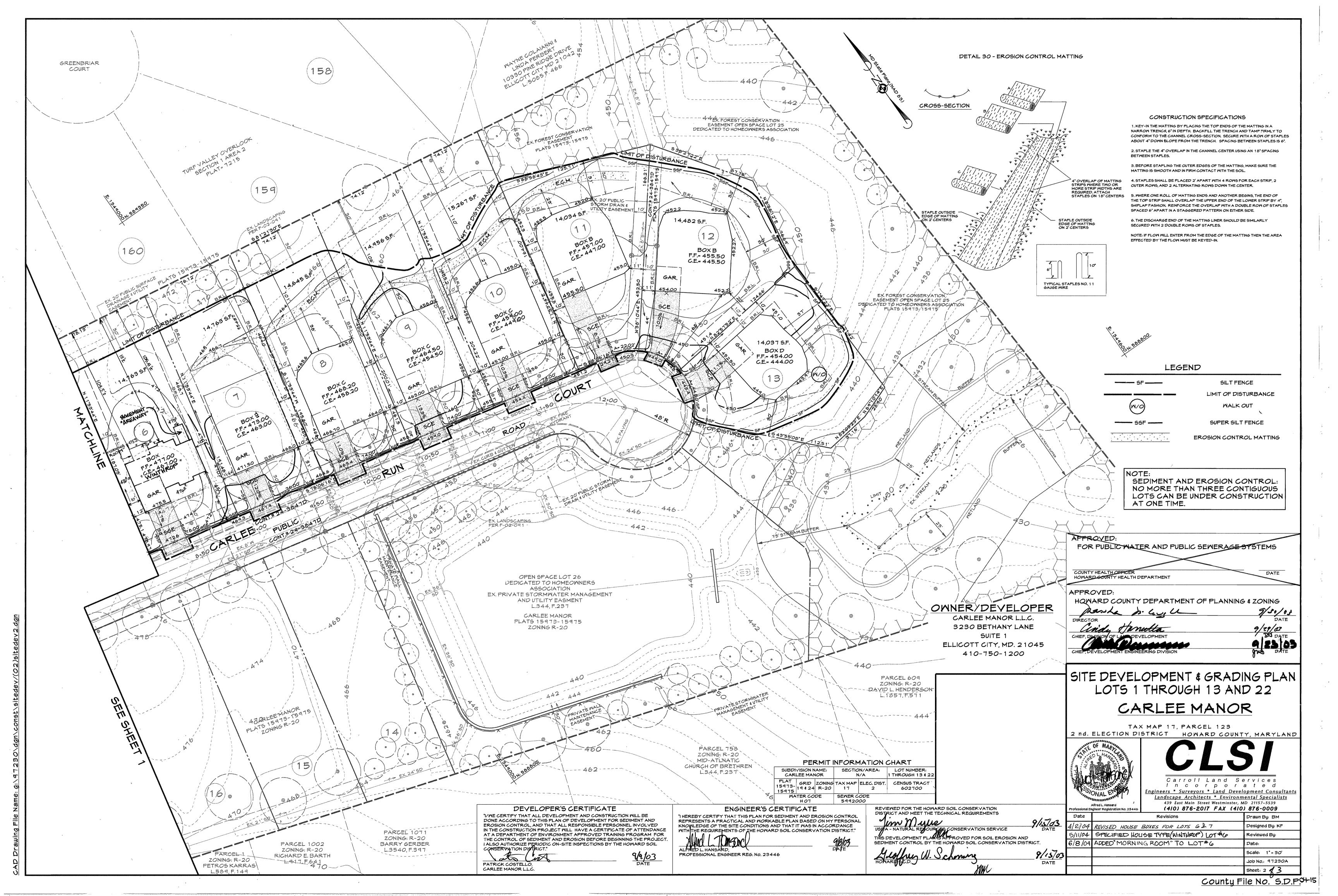
APPROVED:

Carroll Land Services Incorporated

Drawn By: BM Pesigned By: Reviewed By:

AOESTP :.ON doL

County File No. S.D.P.94-15



1. 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).

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 and revisions thereto. 3. Following initial soil disturbance or re-disturbance, permanent or temporary

stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS

FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec 51), sod (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

operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site 13.31 Acres Area Disturbed Area to be roofed or paved 1.43 Acres Area to be vegetatively stabilized 2.46 Acres Total Cut 100 Cu Yd 100 Cu Yds

Offsite waste/borrow area location will be to a site with an approved sediment control plan and an approved and open grading permit. 8. Any sediment control practice, which is disturbed by grading activity for

of utilities, must be repaired on the same day of disturbance. 9. Additional sediment control must be provided, if deemed necessary by the Howard

10. On all sites with disturbed areas in excess of 2 acres, approval of the

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. 11. Trenches for the construction of utilities is limited to three pipe lengths

which shall be back-filled and stabilized by the end of each workday, whichever is

Topsoil Notes

Rev. 9/99

Construction and Material Specifications I. 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 topsoll 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 Experimental Station. II. Topsoil Specifications - Soil to be used as topsoil must meet the following: i. 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 subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel,

sticks, roots, trash, or other materials larger that 1 « in diameter. ii. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified. iii. 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.

III. For sites havina disturbed areas under 5 acres i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and

IV. For sites having disturbed areas over 5 acres: i. On soil meetina Topsoll specifications, obtain test results dictatina fertilizer and lime amendments required to bring the soil into compliance with the following: Page 2 Topsoil Notes

a) 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.

b) Organic content of topsoil shall be not less than 1.5 percent by weight. c) Topsoil having soluble salt content greater than 500 parts per million shall d) No sod 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 phyto-toxic materials. Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specifled in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and

sediment traps and basins. ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4"-8" higher in elevation.

iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil. iv. 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. Page 3 Topsoil Notes

v. 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 seedbed preparation. VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime

and commercial fertilizer, composted sludge and amendments may be applied as i. 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 a) 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 26.04.06. b) 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. c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet. ii. Composted sludge shall be amended with a potassium fertilizer applied at the

rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

NOTE:

ALL SEDIMENT CONTROL MEASURES SHOWN HEREON ARE TEMPORARY UNLESS OTHERWISE NOTED.

STABILIZATION SPECIFICATIONS

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more then 1 year) vegetation to temporarily stabilize any areas where soil disturbance has occurred, until the area can be permanently stabilized with

vegetative or non-vegetative practices Standards: The following notes shall conform to the "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL* Published jointly by the Maryland Department of Environment - Water Management Administration, the

National Resource Conservation Service, and the State Soil Conservation Committee. 1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C.

2. Fertilizer shall consist of a mixture of 10-10-10 and be applied at a rate of 600 lb per acre (15 lb per 1000 sq. ft.) and will meet the requirements in G-20 Sec. 1-B. 3. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the

requirements in G-20 Sec. 1-B. 4. Seed tags shall be made available to the inspector to verify the type and rate of seed used.

The seed must meet the requirements in G-20 Sec. 1-C. 5. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F, G and H.

6. Seeding mixtures shall be selected from or will be equal to those on Table 26. 7. The following is one option, approved equals may be used.

Temporary Seeding Summary Seed Mixture Hardiness Zone 6B/7A (G-20 Flgure 5)

Application	Seeding	Seeding
Rate (lb/ac)	Dates	Depths
80	3/1 to 11/15	1"
20	3/1 to 11/15	1/4" - 1/2
	Rate (lb/ac) 80	Rate (lb/ac) Dates 80 3/1 to 11/15

PERMANENT SEEDING NOTES

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more then 1 year. Standards: The following notes shall conform to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" Published jointly by the Maryland Department of Environment - Water Manager Administration, the National Resource Conservation Service, and the State Soil Conservation Committee.

1. The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See G-20 Sec. 1-C.

2. For sites over 5 ac. soil tests will be performed to determine the exact mixture and application rates for both lime and fertilizer. Soils tests will be prepared by the University of Maryland or a recognized commercial laboratory. If the existing soil does not meet the minimum conditions as stated in G-20 Sec. 1-G-il, then topsoil will need to be obtained that meets these conditions and applied so as to meet the requirements in G-21. 3. For sites of 5 ac. or less of disturbance, the following fertilizer and lime rates shall apply.

4. Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates: N-90 lb per acre (2 lb per 1000 sq. ft.) P205-175 lb per acre (4 lb per 1000 sq. ft.) K20-175 lb per acre (4 lb per 1000 sq. ft.). Fertilizer shall meet the requirements in G-20

5. Lime shall be applied at a rate of 2 tons per acre (100 lb per 1000 sq. ft.) and shall meet the requirements in 6-20 Sec. 1-B.

6. Seed tags shall be made available to the inspector to verify the type and rate of seed used. The seed must meet the requirements in G-20 Sec. 1-c.

7. Mulching will be applied immediately after seeding and will need to meet the requirements in G-20 Sec. 1-F,G & H.

8. Refer to G-20 Sec. 1-E for Methods of Seeding specifications.

9. Refer to G-20 Sec. 4 for Sod specifications. 10. Refer to G-20 Sec. 5 for Turfgrass Establishment specifications. 1 1. Seeding mixtures shall be selected from or will be equal to those on Table 25.

Permanent Seeding Summary

N 10 P205 10 K20 10

Lime application rate - 2 tons/acre (100 lbs./1000 sq. ft.) Seed Mixture Hardiness zone 6B/7A (G-20 Figure 5)

12. The following is one option, approved equals may be used.

	Application	Seeding	Seedin
No. Species	Rate (lb/ac)	Dates	Depth
N/A Triple Fine Fescue	160	3/1 to 10/30	1"-2"
Perennial Rye	40	3/1 to 10/30	1"-2"

On areas where the slope is 3:1 or steeper and the height is 8' or greater, contractor shall track the slope using cleated dozer prior to placing asphalt binder. Dozer shall run up-and-down so that cleat marks are horizontal. Where tracking is required, it shall be done from existing grade level to finished grade level within the limits established by the 8' height criteria.

UTILITY CONSTRUCTION NOTES

1. Place all excavated material on the high side of the trench.

2. Only do as much work as can be done in one day so backfilling, final grading, and permanent stabilization can occur.

3. Any sediment control measures disturbed by the utility construction will be repaired the same day.

STOCKPILE/TOPSOIL NOTES

1. Stockpiling will not be allowed on any impervious area.

2. All stockpiles left at the end of the day will need to be temporarily stabilized until they are again disturbed, unless they are within existing perimeter sediment controls. *3. All stockpile areas shall be confined within perimeter controls. In the event that stockpile areas must be located outside disturbed areas, the location shall be as directed by the inspector in the field.

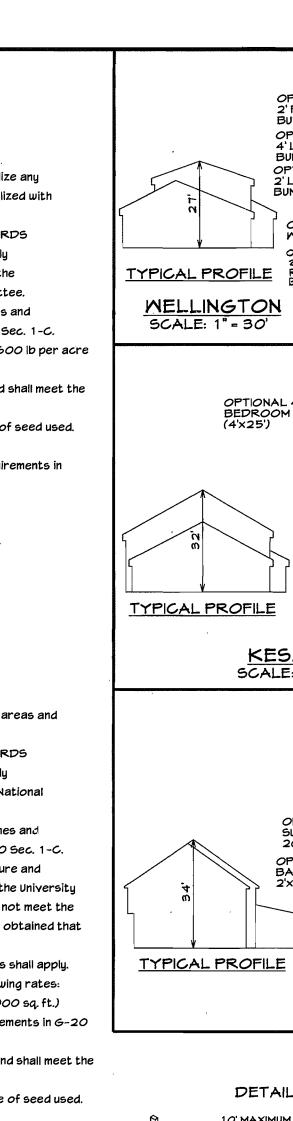
SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. (1 DAY) 2. INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN PER LOT. (2 DAYS)

3. CONSTRUCT DWELLING. (90 DAYS) 4. FINE GRADE LOT AND INSTALL DRIVEWAY AND SIDE WALKS. (1 DAY)

5. INSTALL PERMANENT SEEDING AND MULCHING. (1 DAY)

6. INSTALL LANDSCAPING. (1 DAY) 7. ONCE LOT IS PERMANENTLY STABILIZED AND PERMISSION IS GRANTED BY E & S INSPECTOR. REMOVE SEDIMENT AND EROSION CONTROL DEVICES. (2 DAYS)



OPTIONAL BAY WINDOW 2'x8' OPTIONAL SUNROOM 20'x14' OPTIONAL-BAY WINDOWS

KESMICK SCALE: 1" = 30'

-OPTIONAL MORNING

18x14 OPTIONAL

4'KITCHEN

BUMP (4'x20.83')

BUMP (2'x20.83')

MINDOMS 2'x8'

6'x34' FULL PORCH

OPTIONAL-

3UMP (2'x 12.5')-

LIBRARY

OPTIONAL BA NINDOMS 2'x8

OPTIONAL-

SUNROOM

18'x14'

BUMP (4×12.5)

8'x38' PORCH PORCH

8'x21.33'
FULL PORCH PORCH

2'KITCHEN

PUMP DUT

OPTIONAL 4'

KITCHEN BUMF

(4'x22')

~OPTIONAL ELEV. 2

BUMP OUT

2'x12.33'

FIRE PLACE

0PTIONAL 200' - 20.66

FIRE PLACE

GARAGE

GARAGE

36" MINIMUM LENGTH FENCE POST

- 16" MINIMUM HEIGHT OF

FENCE POST SECTION

FENCE POST DRIVEN A

MINIMUM OF 16" INTO

TIRSTIC TIRSTIC TIRSTIC

THE GROUND

STANDARD SYMBOL

----- SF-----

MINIMUM 20° ABOVE

STANDARD SYMBOL

SCE DA

ENTRANCE

UNDISTURBED

GEOTEXTILE CLASS F

8" MINIMUM DEPTH IN

DRIVEN A MINIMUM OF 16" INTO

GROUND

52.67

13.33

66.67

4' FAMILY

OPTIONAL

OPTIONAL

OPTIONAL

4'LIBRARY

BUMP (4'x 12.5')

3UMP (2'x 1 2.5')

MINDOMS 2'x8'

4'x12.33'

8'x23.33' FULL PORCH

DETAIL 22 - SILT FENCE

36" MINIMUM FENCE

FLOW

TISTISTISTISTISTISTISTISTIS

FILTER

CLOTH

POST LENGTH

EMBED GEOTEXTILE CLASS F

10' MAXIMUM CENTER TO

CENTER_

PERSPECTIVE VIEW

PEMBROOKE SCALE: 1" = 30'

PORCH-

4'x8.67'

OPTIONAL 2' LIVING

OPTIONAL 4' MASTER -BEDROOM BUMP

'FAMILY

70' OPTIONAL ~ MORNING ROOM FIREPLACE INDOM 2'x 10' 'LIBRARY OPTIONAL UNROOM 4'x20.33' OPTIONAL BA NINDOMS 2'x8' GARAGE TYPICAL PROFILE OPTIONAL 6'x33.67' FULL PORCH HAMTHORNE OPTIONAL SCALE: 1" = 30 4.67'x8.33'

14.33'x10' _OPTIONAL

20.33

SARAGE

-OPTIONAL ELEV. 2

GARAGE

N 23.34'

73.66

FIRE PLACE

TYPICAL PROFILE

TYPICAL PROFILE

_MOUNTABLE

BERM (6" MIN.)

- PIPE AS NECESSARY

-- EARTH FILL

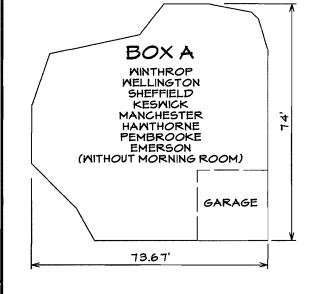
EXISTING PAVEMENT-

REVIEWED FOR THE HOWARD SOIL CONSERVATION

DISTRICT AND MEET THE TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE
THIS DEVELOPMENT PLAN IS TROVED FOR SOIL EROSION AND
SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

ROOM 14.33'x10'



BOXC

WELLINGTON

SHEFFIELD PEMBROOKE

(MITHOUT SUNROOM)

(MITHOUT 2' GARAGE

54'

GARAGE

OPTIONAL— BAY MINDOM

BAY MINDOMS

OPTIONAL-

MANCHESTER (WITHOUT SUNROOM) MINTHROP HAMTHORNE (MITHOUT SUNROOM) PEMBROOKE (MITHOUT SUNROOM) **EMERSON** (MITHOUT 2'GARAGE BOX B GARAGE 59.67

TYPICAL PROFILE

TYPICAL PROFILE

SCALE: 1" = 30

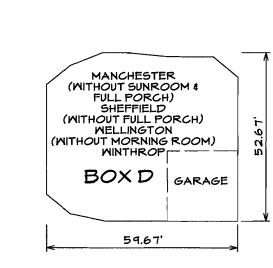
GARAGE SIDE

OF HOUSE

-4' BUMP TO FAMILY ROOM

GARAGE

EMERSON SCALE: 1" = 30



— *54.34* — BOX "E" PEMBROOK WELLINGTON ALL OPTIONS GARAGE

A MINIMUM OF 8" VERTICALLY INTO THE GROUND CROSS SECTION SECTION A STAPLE JOINING TWO ADJACENT SILT FENCE SECTIONS

Construction Specifications 1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1%" X 1%" SQUARE (MINIMUM) CUT, OR 1%" DIAMETER

(MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS MILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POUND PER LINEAR FOOT. 2. 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

TENSILE STRENGTH 50 LBS/IN (MIN.) TEST: MSMT 509 TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 509 0.3 GAL FT & MINUTE (MAX.) TEST: MSMT 322

DEVELOPER'S CERTIFICATE

PATRICK COSTELLO

*I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

DONE ACCORDING TO THIS PLAN OF DEVELOPMENT 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 INSPECTIONS BY THE HOMARD SOIL

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED,

4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT Silt Fence Design Criteria

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
1 <i>0</i> :1 to 5:1	1 <i>00</i> 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	1 25 feet
OTE: IN AREAS OF LESS THAN 2% SYSTEM, SOIL CLASS A) MAXIML	IM SLOPE LENGTH AND SILT F	ENCE LENGTH WILL BE
UNLIMITED. IN THESE AREAS A S	ILT FENCE MAY BE THE ONLY	PERIMETER CONTROL

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 IN ACCORDANCE

WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

ALFRED L HANSARD PROFESSIONAL ENGINEER REG. No. 23446 PAVEMENT OWNER/DEVELOPER CARLEE MANOR L.L.C. 3230 BETHANY LANE SUITE 1 ELLICOTT CITY, MD. 21045 410-750-1200

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT). 2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING 3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. **THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY

MINIMUM 6" OF 2"-3" AGGREGATE

OVER LENGTH AND WIDTH OF

STRUCTURE

LENGTH

PROFILE

RESIDENCES TO USE GEOTEXTILE. 4. 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

PLAN VIEW

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

** GEOTEXTILE CLASS'C'

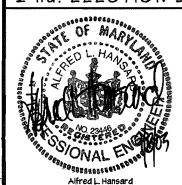
OR BETTER

5. 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. 6.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 CONSTRUCION ENTRANCE.

NOTES & DETAILS LOTS 1 THROUGH 13 AND 22 CARLEE MANOR

HOMARD COUNTY DEPARTMENT OF PLANNING & ZONING

TAX MAP 17, PARCEL 123 2 nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND



optional library bump out

APPROVED:

Carroll Land Services Incorporated <u> Engineers * Surveyors * Land Development Consultants</u> Landscape Architects * Environmental Specialists 439 East Main Street Westminster, MD 21157-5539

(410) 876-2017 FAX (410) 876-0009 Revisions Drawn By: BM REVISED HOUSE BOXES AND ADDED GENERIC BOX "E" Designed By: ADD OPTIONAL BUMP OUT TO FAMILY ROOM AND Reviewed By: OPTIONAL FIREPLACE TO WINTHROP MODEL ADD OPTIONAL PARTIAL PORCH & LIVING ROOM BUMP TO Scale: AS SHOWN VELLINGTON. MAKE KITCHEN BAY OPTIONAL & ADD Job No.: 97230A

County File No. S.D.P.º4-15

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