

PLANTING SPECIFICATIONS

Plants, related material, and operations shall meet the detailed description as given on the plans and as described herein. All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and shape shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug; no heeled-in plants from cold storage will be accepted. Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Contractors Association of Metropolitan Baltimore-Washington Metropolitan Area", thereafter "Landscape Guidelines" approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects, latest edition, including all amendments.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction.

Bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plant list precedence.

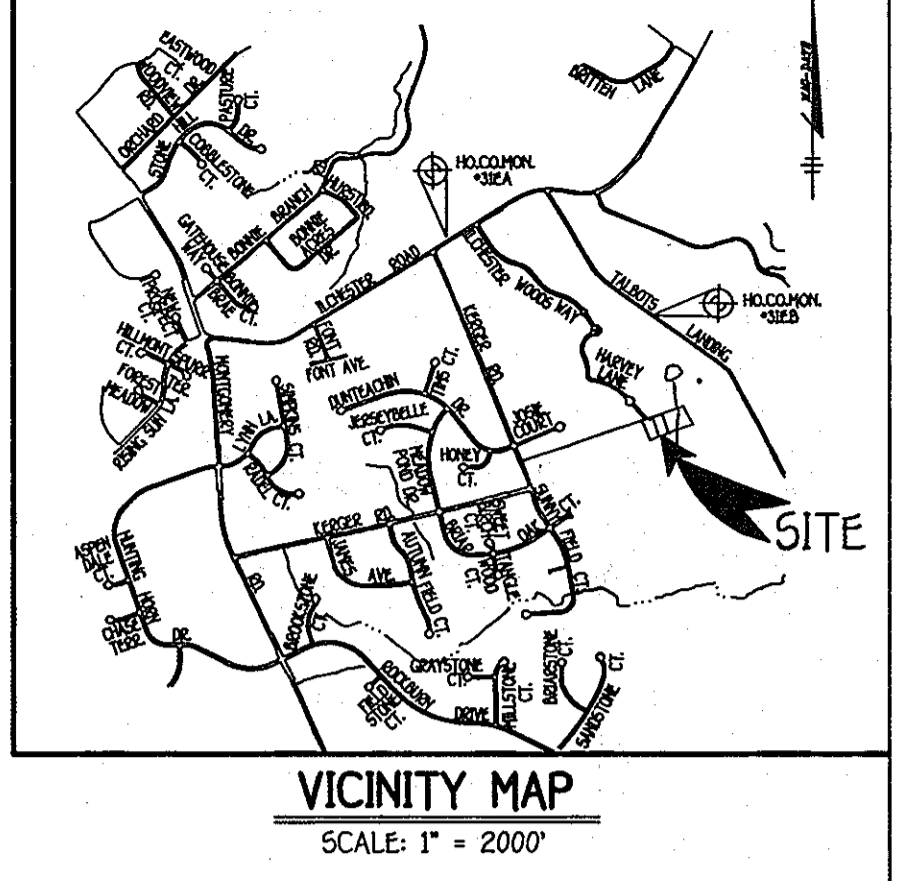
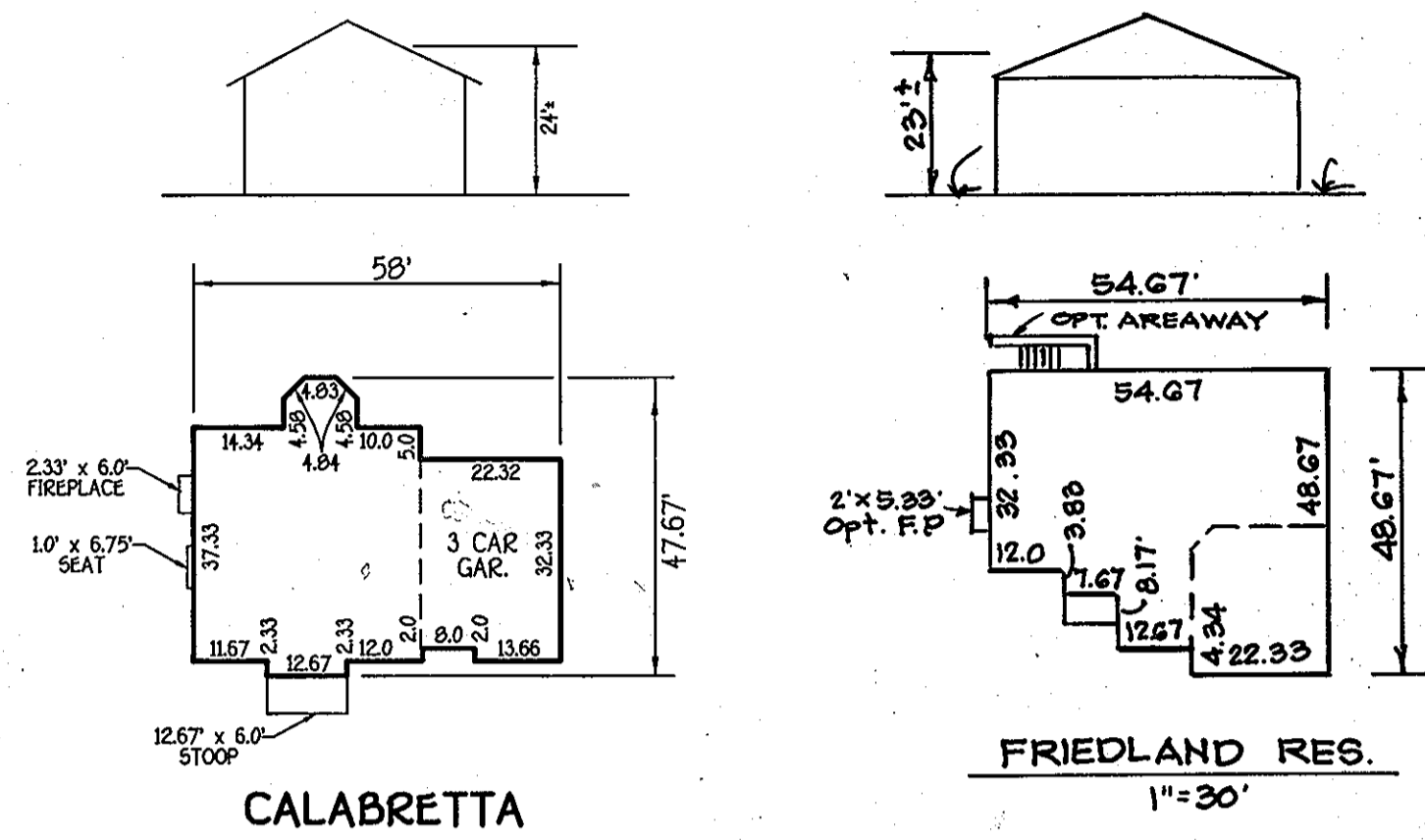
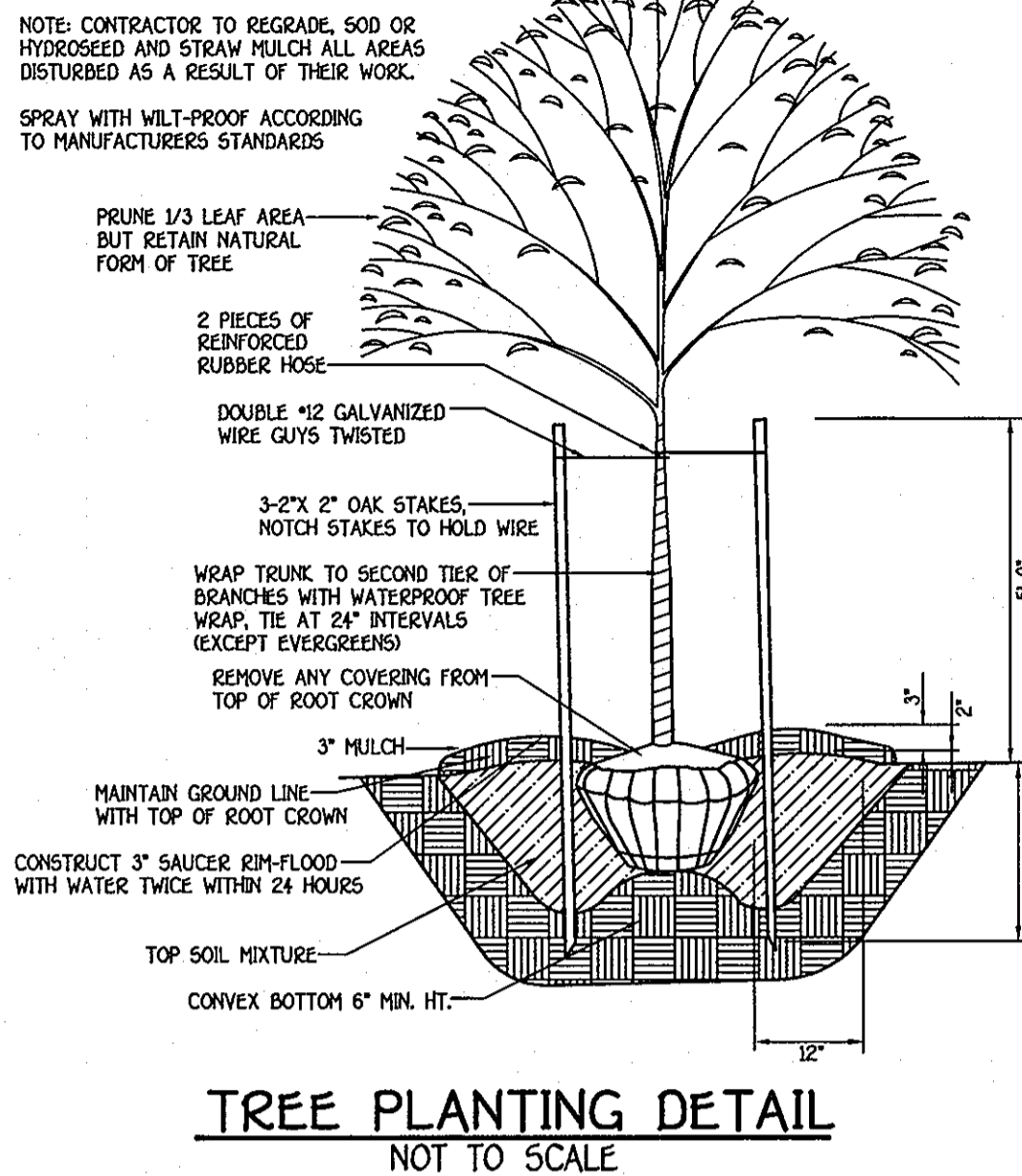
All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds 2 percent slope.

Planting mix shall be as follows: Deciduous Plants - two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen acidic fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded. This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.



BENCH MARKS
 T.P. 316A ELEV. 469.628
 N. 569.64149
 E. 1.374,816.064
 LOC. NEAR INTERSECTION
 OF ILLCHESTER ROAD &
 KERGER ROAD
 T.P. 316B ELEV. 453.415
 N. 568,731.012
 E. 1.376,273.822
 LOC. ALONG TALBOTS
 LANDING

GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER THE COMP LITE ZONING AMENDMENTS EFFECTIVE 7/28/06.
- TOTAL AREA OF SITE: 1.0503 ACRES
- LIMIT OF DISTURBED AREA: 0.50 ACRE
- TOTAL NUMBER OF LOTS SUBMITTED: 2 SFD
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST 24 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- PROPOSED USES FOR SITE AND STRUCTURES IS FOR SINGLE FAMILY DETACHED DWELLINGS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F-03-13L, W CONT. 10-3697 AND S CONT. 14-4078-D, WP 03-126, P-02-027.
- THE EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM APPROVED FINAL SUPPLEMENTAL PLANS F-03-13L, PREPARED BY HILDBURG, BENDER & ASSOCIATES, INC.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
- HOWARD COUNTY MONUMENT 316A N 569.64149 E 1.374,816.064 ELEV. 469.628
 HOWARD COUNTY MONUMENT 316B N 568,731.012 E 1.376,273.822 ELEV. 453.415
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THIS PLAN IS FOR HOUSE SITING AND GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION.
- SEE APPROVED WATER AND SEWER PLANS CONTRACT NO. W 10-3697 & S 14-4079-D.
- CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION.
- STORMWATER MANAGEMENT (SWM) FOR THIS PROJECT WILL BE PROVIDED BY ROOFTOP AND NON ROOFTOP DISCONNECT AS APPROVED UNDER F-03-13L.
- THIS SUBDIVISION IS IN COMPLIANCE WITH THE SECTION 16124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED WITH THE GRADING PERMIT FOR 11 SHADE TREES IN THE AMOUNT OF \$3,300.00.
- FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 161200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FILLED BY PAYMENT OF A FEE-IN-LIEU OF 0.38 ACRES (16,552.0 SQ. FT.) OF AFFORESTATION IN THE AMOUNT OF \$8,276.40 TO THE FOREST CONSERVATION FUND UNDER F-03-13L.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO HQ. CODES MANUAL VOL. IV DETAILS R.6.03 & R.6.05.
- IN ACCORDANCE WITH SECTION 120 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12 (14) IF SERVING MORE THAN ONE RESIDENCE
 B) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/ TAR AND CHIP COATING (1-1/2" MIN) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MIN. 45 FOOT TURNING RADIUS
 C) STRUCTURES - (BRIDGES/CULVERTS) CAPABLE OF SUPPORTING 25 GROSS TONS (RE-LOADING)
 D) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 E) STRUCTURE CLEARANCES MINIMUM 12 FEET
 F) MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE.
- PERMETER LANDSCAPING SHALL BE PROVIDED AS SHOWN ON THIS SITE DEVELOPMENT PLAN AND AS APPROVED ON A CERTIFIED SUPPLEMENTAL LANDSCAPE PLAN ON FILE WITH F-03-13L. POSTING OF SURETY IN THE AMOUNT OF \$3,300.00 FOR 2 SHADE TREES ON LOT 1, 9 SHADE TREES ON LOT 2 (SURETY FOR 2 SHADE TREES ON LOT 3 TO BE PROVIDED WITH THE GRADING PERMIT FOR LOT 3) AND 5 PERIMETER TREES ON LOT 3 TO BE PROVIDED WITH THE GRADING PERMIT FOR LOT 3. THERE ARE NO WETLANDS, 100 YEAR FLOODPLAIN, CEMETERY SITES OR FOREST CONSERVATION EASEMENT WITHIN THIS PROJECT.
- THE 14 PERIMETER LANDSCAPE TREES WERE RELOCATED TO THE ADJOINING DEWANS RESIDENCE SUBDIVISION #14A (FORMERLY LOTS 1-21), F-04-078, BASED ON 1/22/06 APPROVAL #18. THE 17/21/06 HERRMANN PROPERTY RESIDENTS REFUSED TO ALLOW LANDSCAPING TREES ON THEIR PROPERTIES.

SWM SUMMARY CHART

Wqy Required	3,704 cu.ft.
Wqy Provided	3,704 cu.ft. (credits)
Rev Required	958 cu.ft.
Rev Provided	958 cu.ft. (credits)
Cpv Required	N/A (ONE YR. EVENT LESS THAN 2.0 CFS)

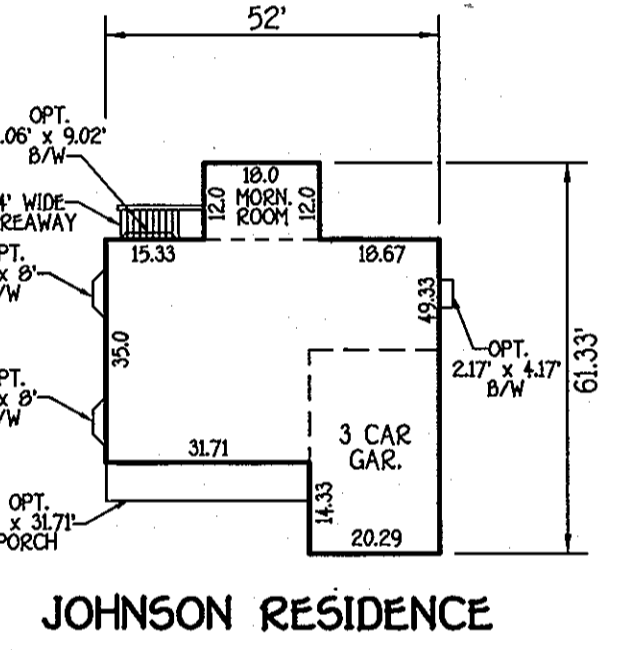
LANDSCAPING PLANT LIST

QTY.	KEY	NAME	SIZE
14		ACER SACCHARUM GREEN MOUNTAIN/SUGAR MAPLE	2 1/2" - 3" CALIPER FULL CROWN 5/8

SCHEDULE B PERIMETER LANDSCAPE EDGE

LOT NO.	PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	NUMBER OF PLANTS REQUIRED		
				SHADE TREES	EXISTING VEGETATION CREDIT	TOTAL TREES
1	P-1	ADJACENT TO PROPERTY	A	2	1	2
2	P-1	ADJACENT TO PROPERTY	A	4		4
3	P-1	ADJACENT TO PROPERTY	A	5		5

SURETY REQUIRED FOR LOT 1 = \$600.00
 SURETY REQUIRED FOR LOT 2 = \$1200.00* See note below
 * SURETY REQUIRED FOR LOT 3 = \$1500.00
 TOTAL SURETY REQUIRED WITH THE GRADING PERMIT \$3,300.00
 * SURETY FOR THE 5 SHADE TREES ON LOT 3 SHALL BE PROVIDED WITH THE GRADING PERMIT FOR LOT 2.



ADDRESS CHART

LOT NUMBER	STREET ADDRESS
1	519 MARLO AUSTIN WAY
2	515 MARLO AUSTIN WAY

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
1	23,321 SQ.FT.	0 SQ.FT.	23,321 SQ.FT.
2	22,431 SQ.FT.	398 SQ.FT.	22,033 SQ.FT.

INDEX CHART

SHEET	DESCRIPTION
SHEET 1	TITLE SHEET, HOUSE TYPES, TEMPLATES
SHEET 2	SITE DEVELOPMENT PLAN, LOTS 1 & 2
SHEET 3	SEDIMENT/EROSION CONTROL PLAN LOTS 1 & 2
SHEET 4	SEDIMENT/EROSION CONTROL NOTES & DETAILS

SITE ANALYSIS DATA

- TOTAL PROJECT AREA: 1.0503 ACRES
- TOTAL AREA OF PLAN SUBMISSION: 1.0503 ACRES
- LIMIT OF DISTURBED AREA: 0.50 ACRE
- PRESENT ZONING: R-20
- PROPOSED USES OF SITE AND STRUCTURES: SINGLE FAMILY DETACHED DWELLINGS
- TOTAL NUMBER OF UNITS: 2

TITLE SHEET, HOUSE TYPES, TEMPLATES

BUILDER/DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT THE REQUIRED LANDSCAPING WILL BE DONE ACCORDING TO THE PLAN AND LOCATED AS DETERMINED AND APPROVED BY THE ARCHITECTURAL COMMITTEE IN ACCORDANCE WITH SECTION 16124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE ACCOMPANIED BY A COPY OF THE ARCHITECTURAL COMMITTEE APPROVED PLAN AND AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING FOR INSPECTION AND THE SUBSEQUENT RELEASE OF SURETY.

Ryan Johnson 5/3/07
 RYAN JOHNSON DATE

LEGEND

SYMBOL	DESCRIPTION
----	EXISTING CONTOUR 2' INTERVAL
+362.2	SPOT ELEVATION
	STONE CONSTRUCTION ENTRANCE
-55F-55F	SUPER SILT FENCE
	EROSION CONTROL MATTING
LOD	LIMIT OF DISTURBANCE
	EXISTING STREET TREE PER FROM F-03-13L
	EXISTING STREET TREE PER FROM F-03-13L
	PROPOSED TREES PER SDP

ENGINEER'S CERTIFICATE

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

Earl D. Collins 5-1-07
 Signature of Engineer EARL D. COLLINS Date

BUILDER/DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Ryan Johnson 5/3/07
 Signature of Developer RYAN JOHNSON Date

Reviewed for HOWARD SCD and meets Technical Requirements.

Jan Meyer 5/15/07
 M.S.D.A.-Natural Resources Conservation Service Date
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
John K. Johnson 5/15/07
 Howard SCD Date

OWNER/BUILDER/DEVELOPER

RYAN JOHNSON
 135 ARBOR VISTA LANE
 OWINGS HILLS, MARYLAND 21117
 410-379-5996

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cynthia Hamer 5/18/07
 Chief, Division of Land Development Date
John Johnson 5/17/07
 Chief, Development Engineering Division Date
Janet Johnson 5/17/07
 Director - Department of Planning and Zoning Date

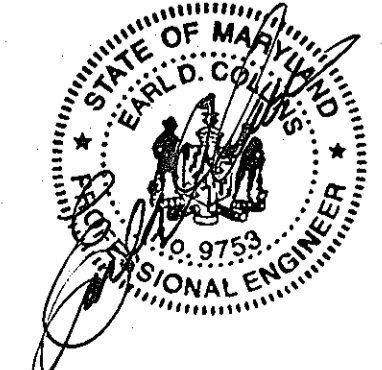
PROJECT	SECTION	LOTS NO.			
HERRMANN PROPERTY	N/A	1 & 2			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
18825 18826	22	R-20	31	FIRST	6011.01
WATER CODE	SEWER CODE				
E-15	7640000				

TITLE SHEET, HOUSE TYPES, NOTES & DETAILS

SINGLE FAMILY DETACHED
HERRMANN PROPERTY
 LOTS 1 & 2

TAX MAP NO.: 31 PARCEL NO.: 659 GRID NO.: 22
 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL, 2006
 SHEET 1 OF 4

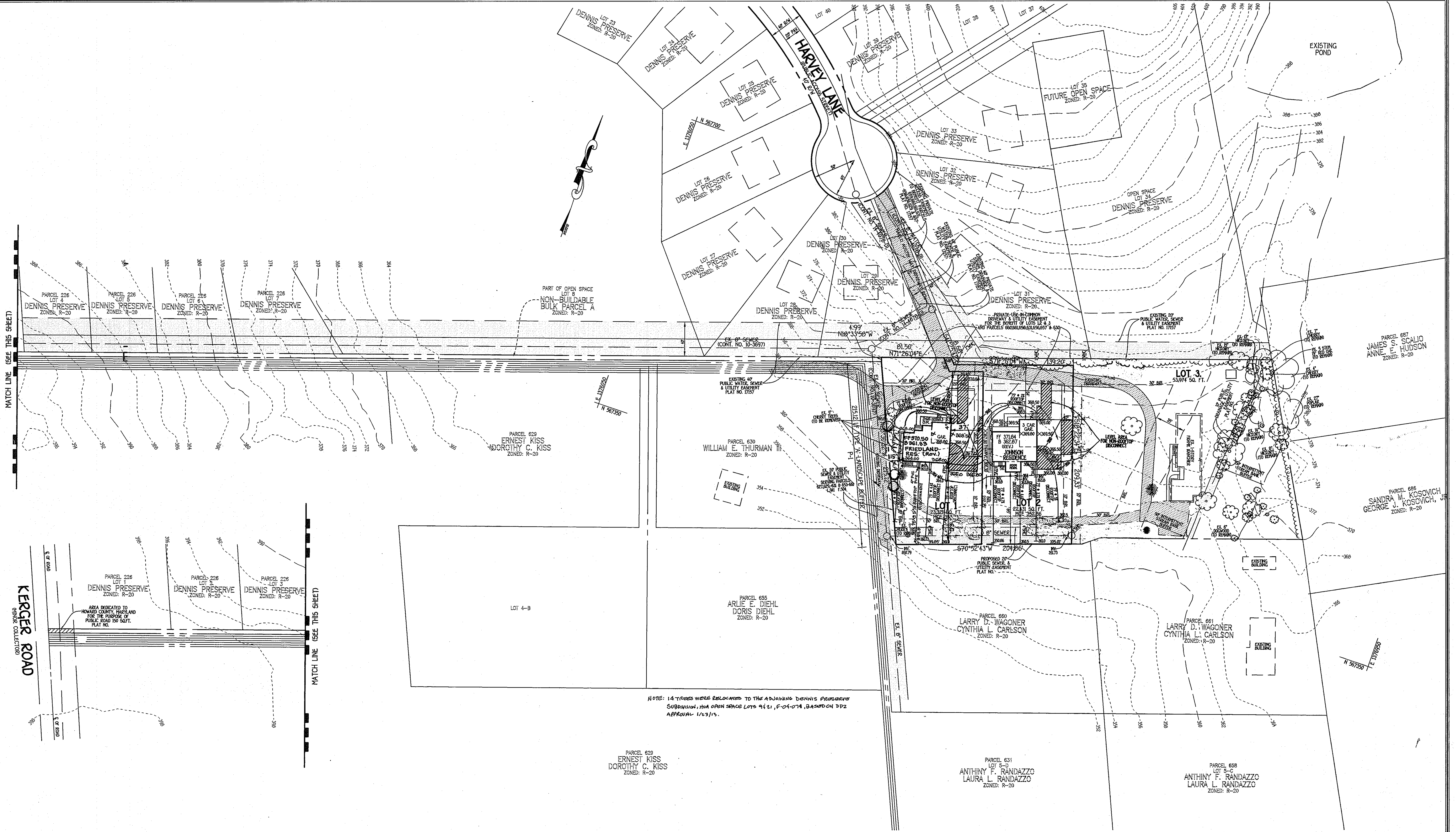
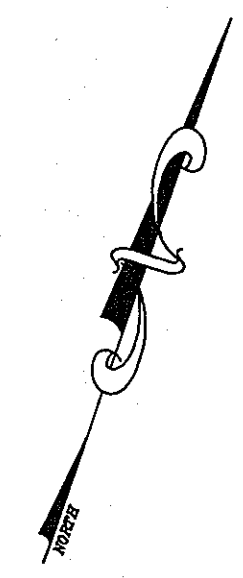
SDP 07-79

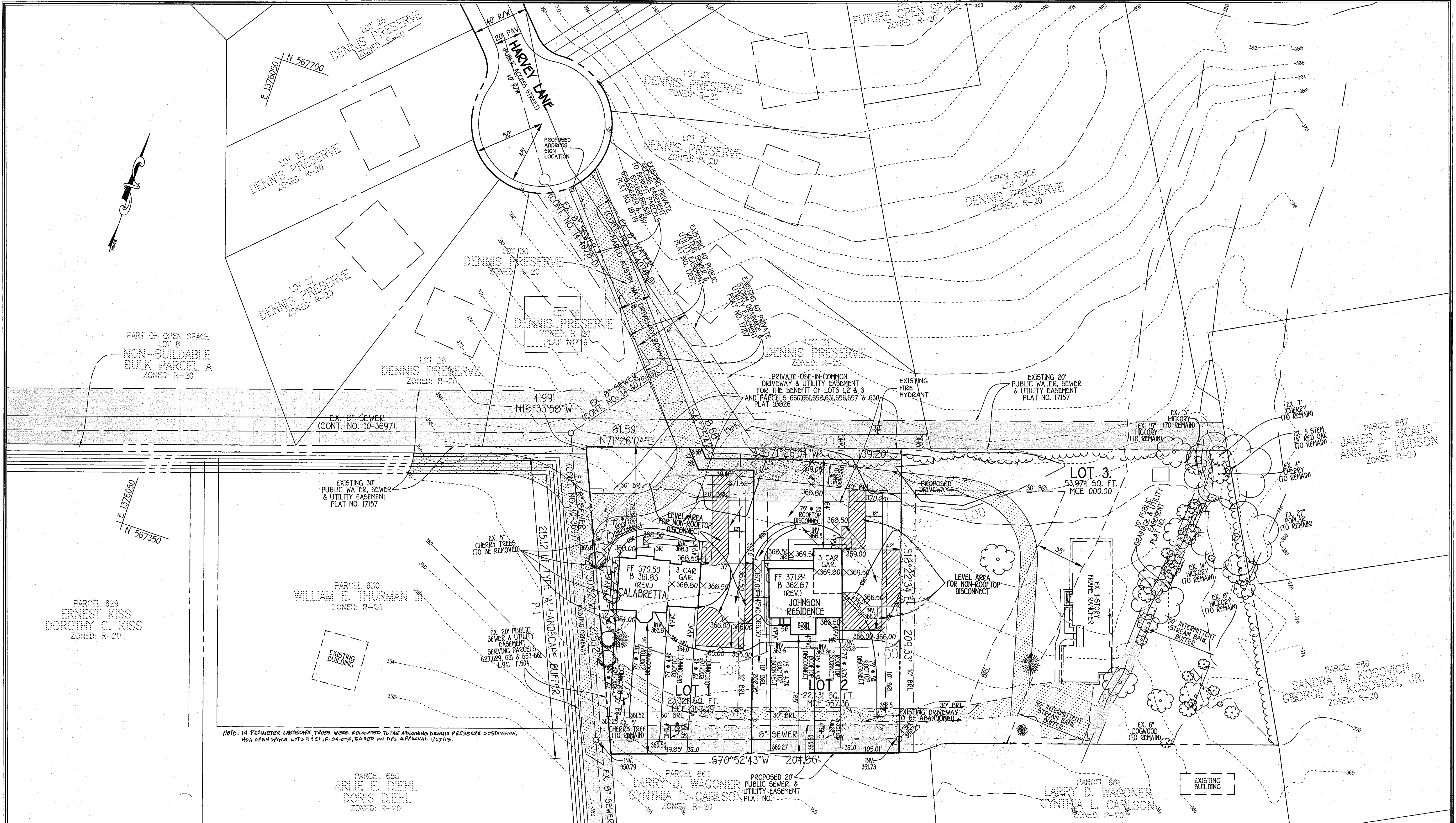


MATCH LINE (SEE THIS SHEET)

KERGER ROAD
(ON-OR COLLECTION)

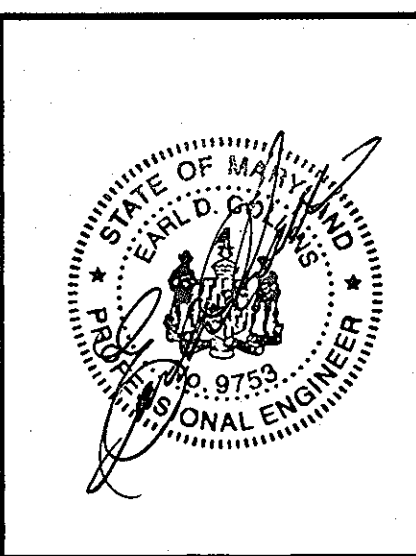
MATCH LINE (SEE THIS SHEET)





FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855

NO.	REVISION	DATE
1	REMOVE PERIMETER LANDSCAPE TREES, ADD NOTE	5/11/07



ENGINEER'S CERTIFICATE
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer: *Earl D. Collins* Date: 5/10/07
 EARL D. COLLINS

DEVELOPER'S CERTIFICATE
 I/we certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Signature of Developer: *Ryan Johnson* Date: 5/14/07
 RYAN JOHNSON

Reviewed for HOWARD SCD and meets Technical Requirements.
 Signature: *Jim Meyer* Date: 5/10/07
 U.S.D.A. - Natural Resources Conservation Service
 This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John R. Watson* Date: 5/10/07
 HOWARD SCD

OWNER/BUILDER/DEVELOPER
 NV-HOMES
 6085 MARSHALLEE DRIVE
 SUITE 130
 ELK RIDGE, MARYLAND 21075
 410-379-5956

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *Andy Hamilton* Date: 5/16/07
 Chief, Division of Land Development

Signature: *Mark J. Wynn* Date: 5/17/07
 Chief, Department of Engineering

Signature: *Mark J. Wynn* Date: 5/17/07
 Director, Department of Planning and Zoning

PROJECT	SECTION/AREA	LOT NO.
HERRMANN PROPERTY	N/A	1 & 2

PLATS	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
18025 18026	22	R-20	31	FIRST	6011.01

WATER CODE	SEWER CODE
E-15	7640000

SEDIMENT/EROSION CONTROL PLAN

**SINGLE FAMILY DETACHED
 HERRMANN PROPERTY**
 LOTS 1 & 2
 ZONING: R-20

TAX MAP NO: 31 PARCEL NO: 659 GRID NO: 22
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL, 2007
 SHEET 3 OF 4

SDP 07-79

1320606113.dwg, Lots 1 & 2, 30 SCALE.dwg, 5/20/07 7:00:38 PM, 1/30

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to protect it from forces that cause erosion. PURPOSE: Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES: This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This definition includes temporary seeding to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary soil stockpiles, cleared areas being left during construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dunes, cut and fill slopes and other areas of final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY: Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. Infiltration evaporation and groundwater recharge. Vegetation over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. It will also help protect groundwater supplies by assimilating those substances present within the root zone.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- Site Preparation**
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil and Lime Specifications**
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Fertilizer may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - Lime materials shall be ground limestone hydrated or burnt lime may be substituted which contains at least 50% total oxides calcium oxide (lime) and magnesium oxide. Limestone shall be ground to a fineness that at least 50% will pass through a 100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.
- Seeded Preparation**
 - Temporary Seeding**
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on tracked equipment. After the soil is loosened it should not be loose or displaced smooth, but left in the rough condition. Areas shall be graded to a depth of 3" to 5" and then 3D should be struck leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.
 - Permanent Seeding**
 - Minimum soil conditions required for permanent vegetative establishment: soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay, but enough fine grained material (D30) silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lowgrass or sericea lespedeza is to be planted, then a sandy soil (C30) silt plus clay) would be acceptable.
 - Soil shall contain 1% minimum organic matter by weight.
 - Soil must contain sufficient pore spaces to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3" to 5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Mix soil amendments into the top 3-5" of topsoil by diking or other suitable means. Lawn seeds should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 3-5" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

- Seed Specifications**
 - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory which have been tested within the 6 months immediately preceding the date of sowing such material on this job.
 - Note: Seed tags shall be made available to the inspector to verify type and rate of seed used.
 - Inoculant - The inoculant to be used shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on packaging. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effective.
- Methods of Seeding**
 - Hydroseeding** - Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seedbed, or a cultipacker seeder.
 - If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: Nitrogen maximum of 100 lbs. per acre total of soluble nitrogen (P205 phosphorus 200 lbs/acre, K2O potassium 200 lbs/acre).
 - Lime - use only ground agricultural limestone, 1/2 to 1 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding** - This includes use of conventional drop or broadcast spreaders.
 - Seed spread rate shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be raked with a weighted roller to provide seed to soil contact.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
 - Drill or Cultipacker Seeding** - Mechanical seeders that apply and cover seed with soil.
 - Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
 - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- Mulch Specifications (in order of preference)**
 - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dry and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
 - Wood Cellulose Fiber Mulch (WCFM)
 - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCFM shall be dried green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
 - WCFM including dye shall contain no germination or growth inhibiting factors.
 - WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a better-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFM material shall contain no elements or compounds at concentrations levels that will be phytotoxic.
 - WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 16% maximum and water holding capacity of 50% minimum.

- Incremental Stabilization - Cut Slopes**
 - All cut slopes shall be dressed, seeded, graded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 10'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 2 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Incremental Stabilization - Embankments**
 - Embankments shall be constructed in lifts as prescribed on the plans.
 - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15', or when the grading operation ceases as prescribed in the plans.
 - At the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sedimenting device.
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
 - Place Phase 1 excavation, dress and stabilize.
 - Place Phase 2 excavation, dress and stabilize.
 - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

- Incremental Stabilization - Final Slopes**
 - All cut slopes shall be dressed, seeded, graded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 10'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 2 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

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 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 2 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

NO.	REVISION	DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELKTON, MARYLAND 21922
 410-461-2855

- Mulching Seeded Areas** - Mulch shall be applied to all seeded areas immediately after seeding.
 - If grading is completed outside of the seeding season, mulch shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
 - When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
 - Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.
- Securing Straw Mulch (Mulch Anchoring)** - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This practice is most effective when performed by preferred methods depending upon size of area and erosion hazard.
 - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to steeper slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
 - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a rate of 1/2 lb. per 100 gallons of water. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic ULE (Super-Tack), DCA-70 Petrosol, Terra-Tac II, Terra-Tac AS or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
 - Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.
- Incremental Stabilization - Cut Slopes**
 - All cut slopes shall be dressed, seeded, graded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 10'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 2 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
- Incremental Stabilization - Embankments**
 - Embankments shall be constructed in lifts as prescribed on the plans.
 - Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15', or when the grading operation ceases as prescribed in the plans.
 - At the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sedimenting device.
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
 - Place Phase 1 excavation, dress and stabilize.
 - Place Phase 2 excavation, dress and stabilize.
 - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

TEMPORARY SEEDING NOTES

- At least 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 (303-1855).
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, IN 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOD (SEC. 5A), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 50). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- Soil Analysis:**

TOTAL AREA OF SITE	1,050.00 ACRES
AREA TO BE ROOFED OR PAVED	0.5000 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.5000 ACRES
TOTAL CUT	300 CUBIC YDS.
TOTAL FILL	300 CUBIC YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES

- At least 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 (303-1855).
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, IN 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
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- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- Soil Analysis:**

TOTAL AREA OF SITE	1,050.00 ACRES
AREA TO BE ROOFED OR PAVED	0.5000 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.5000 ACRES
TOTAL CUT	300 CUBIC YDS.
TOTAL FILL	300 CUBIC YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION

NO.	REVISION	DATE
1.	OBTAIN GRADING PERMIT	7 DAYS
2.	INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN	7 DAYS
3.	CLEAR AND GRUB TO LIMITS OF DISTURBANCE	4 DAYS
4.	INSTALL TEMPORARY SEEDING	2 DAYS
5.	CONSTRUCT BUILDINGS	60 DAYS
6.	FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE	16 DAYS
7.	REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSIBLE IS GRANTED BY E/S CONTROL INSPECTOR.	7 DAYS

STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose: To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture for plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.

- For the purpose of these standards and specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

- Topsoil specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loam 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 textures and shall contain less than 5% volume of coarse stones, clay, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-6 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.

- For sites having disturbed areas over 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
 - For sites having undisturbed areas over 5 acres:

- On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No 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 phytotoxic materials.

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 6" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that seeding or seedine can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

- Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 - Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas over 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 28.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. The compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - 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.

- 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.

- References: Guideline Specifications, Soil Preparation and Seeding, MD-VI, Pub. #, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute, Revised 1973.

- Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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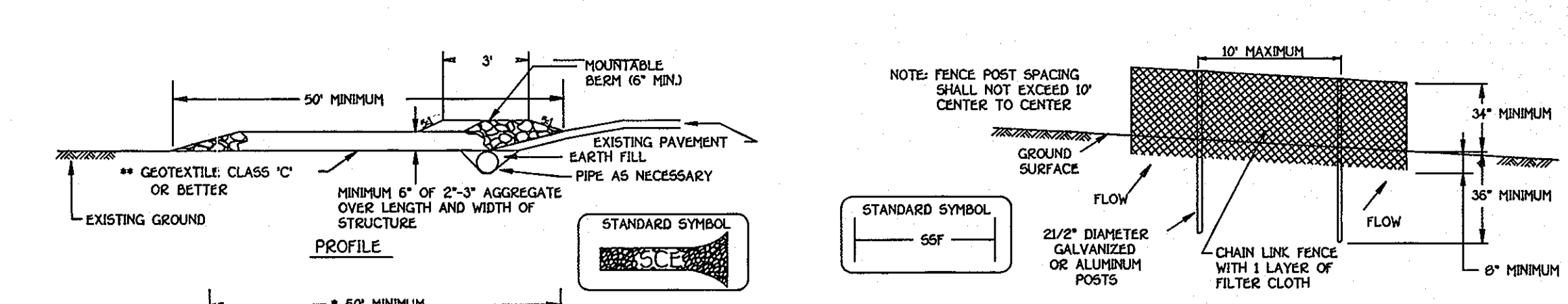
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- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall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

Design Criteria	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 101	Unlimited	Unlimited
10 - 20%	101 - 51	200 feet	1,000 feet
20 - 33%	51 - 31	100 feet	500 feet
33 - 50%	31 - 21	100 feet	500 feet
50% +	21 +	50 feet	250 feet

Design Criteria	Tensile Strength	Test: MSMT 509
Slope Steepness	50 lbs/in (min)	Test: MSMT 509
Slope Length (Maximum)	20 lbs/in (min)	Test: MSMT 322
Silt Fence Length (Maximum)	0.3 gal/1 minute (max)	Test: MSMT 322
	Flow Rate	Filtering Efficiency
	75% (min)	

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

SUPER SILT FENCE

NOT TO SCALE

SEDIMENT/EROSION CONTROL NOTES & DETAILS

SINGLE FAMILY DETACHED HERRMANN PROPERTY

LOTS 1 & 2

TAX MAP NO: 31 PARCEL NO: 659 GRID NO: 22
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: APRIL, 2007

SHEET 4 OF 4

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development
 Date: 5/18/07

Chief, Development Engineering Division
 Date: 5/17/07

Director - Department of Planning and Zoning