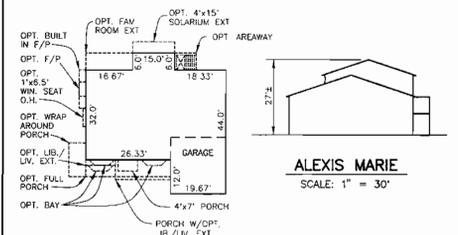
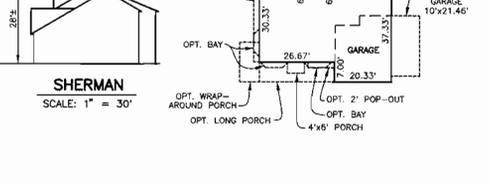
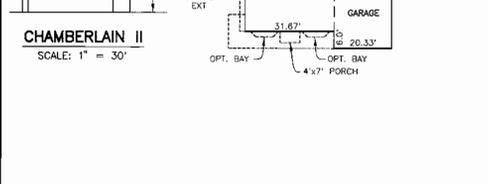
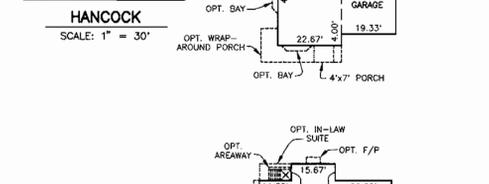
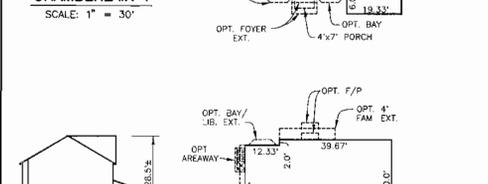
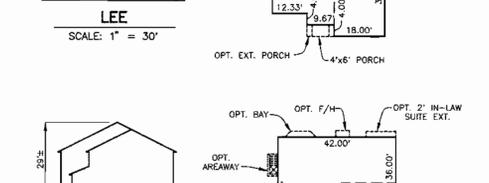
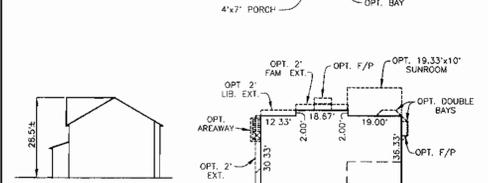
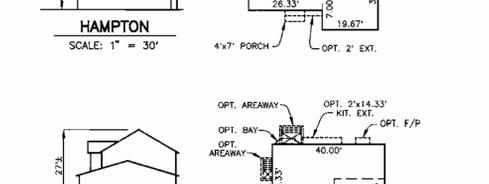
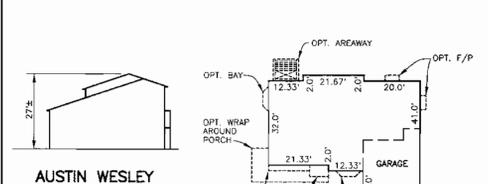
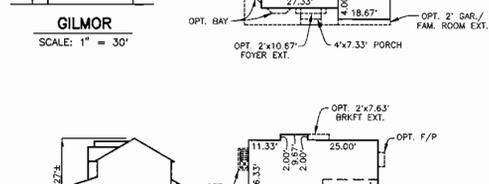
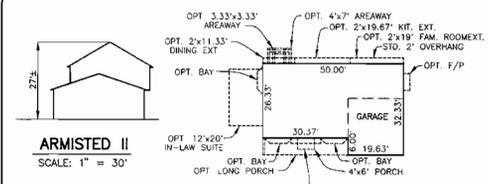
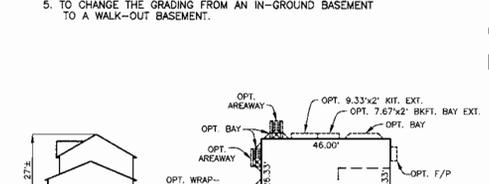
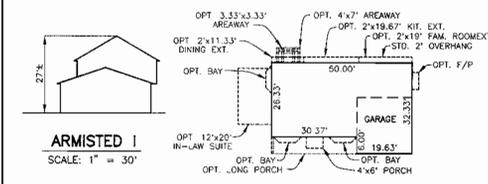


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT AND GRADING PLAN
3	SEDIMENT & EROSION CONTROL PLAN



- A HOUSE-TYPE REVISION (RESITE) IS REQUIRED WHEN THE FOLLOWING OCCURS:**
1. A HOUSE TYPE IS ADDED OR DELETED.
 2. A DRIVEWAY LOCATION IS CHANGED FROM A FRONT-LOADED TO A SIDE-LOADED GARAGE.
 3. THE HOUSE IS "FLIPPED" SO THAT THE GARAGE AND DRIVEWAY ARE OPPOSITE TO THE APPROVED SDP.
 4. A CHANGE IN THE ELEVATION OF HOUSE 1 (ONE) FOOT ±.
 5. TO CHANGE THE GRADING FROM AN IN-GROUND BASEMENT TO A WALK-OUT BASEMENT.



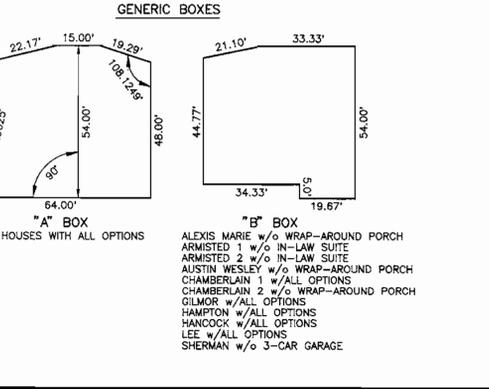
SITE DATA TABULATION

GENERAL SITE DATA

- 1.) PRESENT ZONING: R-12
- 2.) APPLICABLE OPZ FILE REFERENCES: F-99-42
- 3.) PROPOSED USE OF SITE: SINGLE-FAMILY DETACHED
- 4.) PROPOSED WATER: PUBLIC
PROPOSED SEWER: PUBLIC

AREA TABULATION

- 1.) TOTAL PROJECT AREA: 1.20 AC.
- 2.) TOTAL NUMBER OF LOTS ALLOWED AS SHOWN ON FINAL PLAT: 4
- 3.) TOTAL NUMBER OF RESIDENTIAL UNITS PROPOSED ON THIS SUBMISSION: 4
- 4.) APPROXIMATE LIMIT OF DISTURBANCE: 1.20 AC.
- 5.) AREA OF THIS PLAN SUBMISSION: 1.20 AC.
- 6.) BUILDING COVERAGE OF SITE (PERMITTED): N/A (00%)
- 7.) BUILDING COVERAGE OF SITE (PROPOSED): N/A



R. BAKER PROPERTY

LOTS 1 THRU 4

1st ELECTION DISTRICT

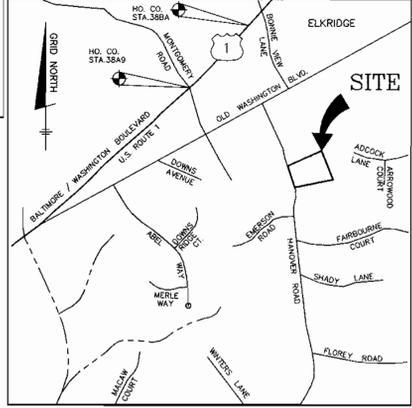
HOWARD COUNTY, MARYLAND

SITE DEVELOPMENT PLAN

BENCHMARKS NAD'83

HO. CO. STA. 38A9	EL. 223.46
N 561,056.338	E 1,389,634.180
HO. CO. STA. 38A4	EL. 166.97
N 562,553.304	E 1,390,967.889

* SEE VICINITY MAP FOR LOCATIONS



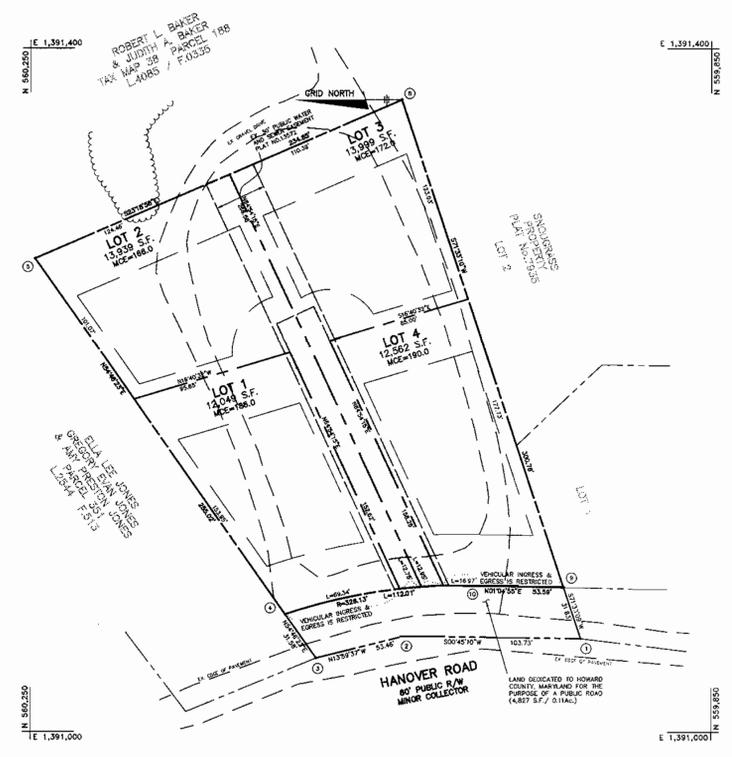
MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE
1	13,938.27 S.F.	1,846.09 S.F.	12,093.18 S.F.
2	13,999.41 S.F.	1,880.64 S.F.	12,188.77 S.F.

SEWER HOUSE CONNECTION TABLE

LOT NO.	MINIMUM CELLAR ELEV.	BASEMENT
1	186.0	182.22
2	166.0	162.82
3	172.0	168.22
4	190.0	183.90

NOTE: CONTRACTOR SHALL CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY (BASEMENT LINE PRIOR TO CONSTRUCTION OF THE HOUSE TO ENSURE PROPER SLOPES CAN BE MAINTAINED.



ADDRESS CHART

LOT NO.	STREET ADDRESS
1	6071 HANOVER ROAD
2	6067 HANOVER ROAD
3	6075 HANOVER ROAD
4	6073 HANOVER ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL#			
R. BAKER PROPERTY	N/A	LOTS 1 THRU 4			
PLAT No.	BLOCK No.	ZONE	TAX MAP	ELEC. DIST.	CENSUS
13752	9	R-12	38	1st	6012
WATER CODE	AO1	SEWER CODE	Z090000		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cheryl A. ... 9/1/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Cindy ... 9/3/99
CHIEF, DIVISION OF LAND DEVELOPMENT

... 9/9/99
DIRECTOR

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS
8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-5644

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

REVISION

NO.	DATE	REVISION

BUILDER: DORSEY FAMILY HOMES
9926 CYPRESSMEDE DRIVE
ELLICOTT CITY, MD 21043
PHONE: 410-465-7200

PROJECT: R. BAKER PROPERTY
LOTS 1 THRU 4
(SINGLE FAMILY DETACHED)

LOCATION: PLAT No. 13752
TAX MAP: 38 - BLOCK: 9
PARCEL: 789 - CENSUS TRACT: 6012
1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
WATER CODE: AO1 SEWER CODE: Z090000

OWNER: ROBERT L. & JUDITH A. BAKER
2445 HIDEAWAY LANE
VAKARIA, FL 32950

TITLE: COVER SHEET

DATE: JUNE, 1999
AUGUST, 1999 PROJECT NO. 1283

Design: DAM/MCR Draft: MCR SCALE: AS SHOWN DRAWING 1 OF 3

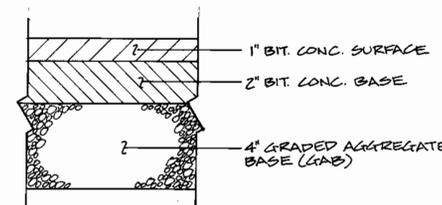
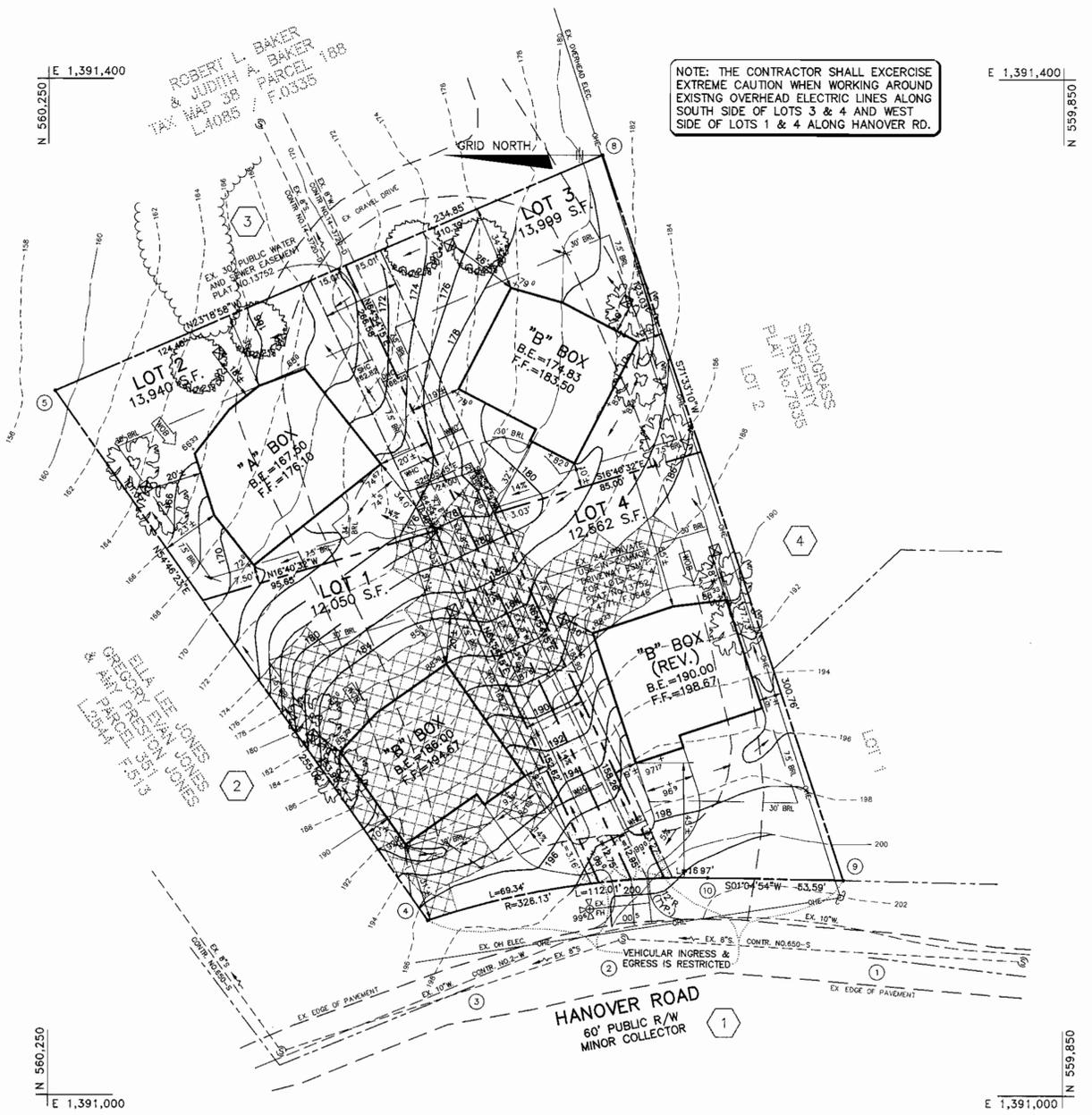
SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	ADJACENT TO ROADWAY	ADJACENT TO PERIMETER PROPERTIES	YES	NO
PERIMETER NO. / LANDSCAPE TYPE	① N/A	② A	③ A	④ A
LINEAR FEET OF ROADWAY (FRONTAGE/PERIMETER)	133.47	256.02	234.85	300.76
CREDIT FOR EXISTING VEGETATION (NO OR YES W/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (NO OR YES W/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED				
SHADE TREES	-	4	4	5
EVERGREEN TREES	-	-	-	-
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-
SHRUBS	-	-	-	-
NUMBER OF PLANTS REQUIRED				
SHADE TREES	-	-	-	-
EVERGREEN TREES	-	-	-	-
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-
SHRUBS (10:1 SUBSTITUTE)	-	-	-	-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)				

PLANTING LIST			
SYMBOL	QUANTITY	NAME	REMARKS
	9	ACER RUBRUM "RED SUNSET" OR EQUIVALENT	2 1/2" - 3" CAL.
	4	TILIA CORDATA "GREENSPICE" OR EQUIVALENT	2 1/2" - 3" CAL.

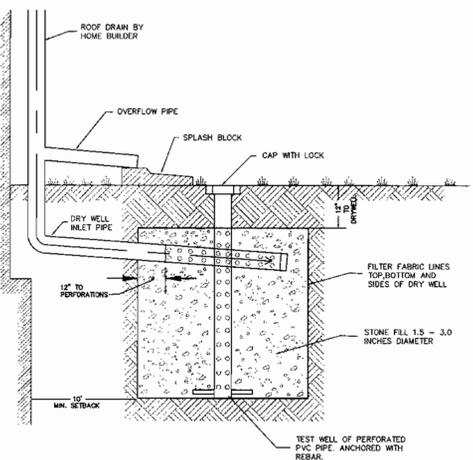
NOTE: TREES SHOWN ARE PROPOSED AS PART OF F-99-42. NO ADDITIONAL TREES ARE REQUIRED AS PART OF THIS SITE PLAN.
THE LANDSCAPE SURETY HAS BEEN POSTED WITH THE F-99-42 DEVELOPER'S AGREEMENT.

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WOODS LINE
- EXISTING WATER
- EXISTING SEWER
- EXISTING OVER. ELEC.
- PROPOSED DRYWELL
- PROPOSED STRUCTURE
- PROP. WALK-OUT BASEMENT
- 15% TO 24% STEEP SLOPES



TYPICAL PAVEMENT SECTION PROPOSED DRIVEWAY (P-1)
NOT TO SCALE



DRY WELL DETAIL
(DIMENSION: 4' x 4' x 4')
NOT TO SCALE

SITE PLAN
SCALE: 1" = 30'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 9/1/99 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 9/3/99 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 9/2/99 DATE
DIRECTOR

NO.	DATE	REVISION
 BENCHMARK ENGINEERING, INC. ENGINEERS • LAND SURVEYORS • PLANNERS 8490 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644		
BUILDER: DORSEY FAMILY HOMES 9926 CYPRESSMEDE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-465-7200		PROJECT: R. BAKER PROPERTY LOTS 1 THRU 4 (SINGLE FAMILY DETACHED)
OWNER: ROBERT L. & JUDITH A. BAKER 2445 HIDEAWAY LANE VAKARIA, FL 32950		LOCATION: PLAT No. 13752 TAX MAP: 3B - BLOCK: 9 PARCEL: 789 - CENSUS TRACT: 6012 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND WATER CODE: AC1 SEWER CODE: 2090000
TITLE: SITE DEVELOPMENT/ GRADING PLAN		
DATE: JUNE, 1999	PROJECT NO. 1283	
DATE: AUGUST, 1999		
DESIGN: DAM/MCR	DRAFT: MCR	SCALE: AS SHOWN
		DRAWING 2 OF 3

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREIN.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, 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 BY 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 SEEDINGS (SEC. 51) SOO (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.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS**
 TOTAL AREA OF SITE: 1.20 ACRES
 TOTAL AREA DISTURBED: 0.26 ACRES
 AREA TO BE ROOFED OR PAVED: 0.26 ACRES
 TOTAL CUT: 458 CU. YDS.
 TOTAL FILL: 1,700 CU. YDS.
 OFFSITE BORROW: -
- 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 REQUIRED BEFORE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE GRADING 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 ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSSELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT) FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

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

PERMANENT SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 LBS/1000 SQ FT).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELLS ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDBED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEQUENCE OF CONSTRUCTION

- DAY 1 - OBTAIN GRADING PERMIT.
- DAY 2-8 - INSTALL SEDIMENT CONTROL DEVICES THAT ARE NOTED TO BE INSTALLED UNDER THIS SUPP.
- DAY 9-12A - EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 13-62 - CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS.
- DAY 63-67 - FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 68-91 - WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.

* - INDICATES SINGLE LOT HOUSE CONSTRUCTION

NOTE: 1) SEDIMENT CONTROL LOCATION AND IMPLEMENTATION AS SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

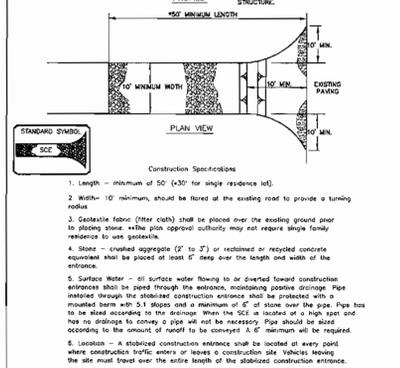
2) EROSION CONTROL MATTING SHALL BE PLACED IN SWALES UNTIL VEGETATION IS ESTABLISHED OR SOLID SOO SHOULD BE USED.

SOILS LEGEND

MAP SYMBOL	SOIL TYPE	MAPPING UNIT
Em	C/D	ELKTON SILT LOAM
SSE	B	SASSAFRAS SOILS - 15 TO 40 PERCENT SLOPES
Su2	B	SUNNYSIDE FINE SANDY LOAM - 5 TO 15 PERCENT SLOPES - MODERATELY ERODED

SOILS MAP NO.:

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

20.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

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

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

Conditions Where Practice Applies

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

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate 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, or other materials larger than 1 1/2" in diameter.
 - 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.

Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be placed 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.

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 disturbed 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.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate authority, may be used in lieu of natural topsoil.

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

Topsoil Application

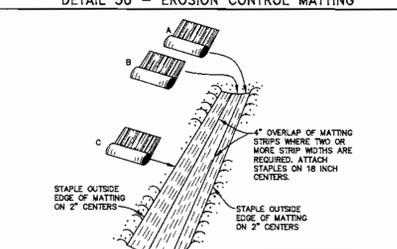
- When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
- 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 preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. 0-21-2

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 prescribed amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 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.

References: Guideline Specifications, Soil Preparation and Sodding MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute, Revised 1973.

DETAIL 30 - EROSION CONTROL MATTING



CONSTRUCTION SPECIFICATIONS

- KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 4" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
- STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
- BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
- STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CHANNEL.
- WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
- THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.

NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

SOIL STABILIZATION MATTING

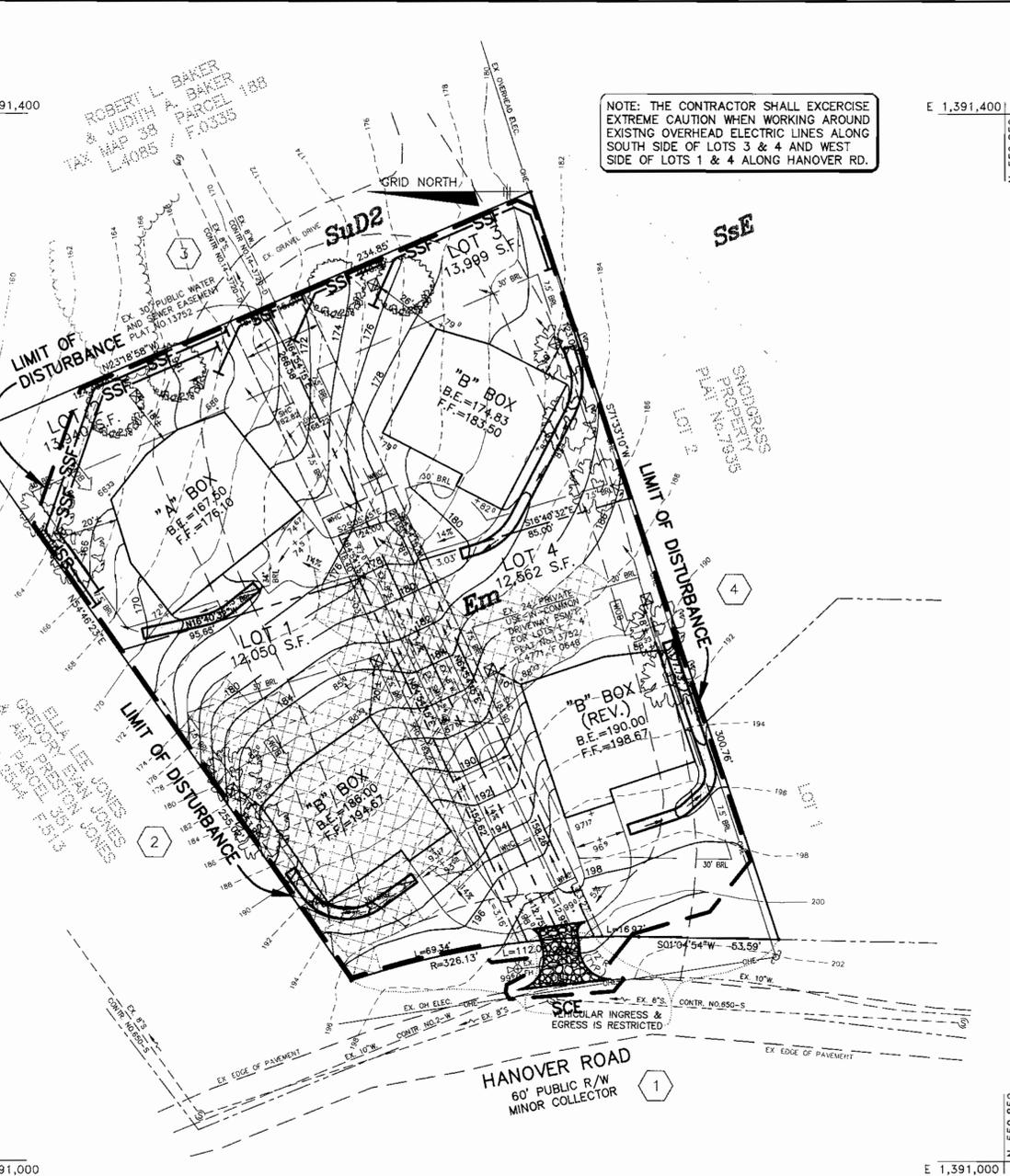
NOT TO SCALE

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 0-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

LEGEND

- EXISTING CONTOURS: 999
- PROPOSED CONTOURS: 999
- EXISTING WOODS LINE: [Symbol]
- EXISTING WATER: [Symbol]
- EXISTING SEWER: [Symbol]
- EXISTING OVER. ELEC.: [Symbol]
- PROPOSED DRYWELL: [Symbol]
- PROPOSED STRUCTURE: [Symbol]
- PROP. WALK-OUT BASEMENT: [Symbol]
- 15% TO 24% STEEP SLOPES: [Symbol]
- PROPOSED EARTH DIKE: [Symbol]
- LIMIT OF DISTURBANCE: [Symbol]
- PROPOSED SILT FENCE: [Symbol]
- PROP. SUPER SILT FENCE: [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE: [Symbol]

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 0-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



PLAN SCALE: 1"=30'

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 0-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

BY THE DEVELOPER:

"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 COUNTY SOIL CONSERVATION DISTRICT."

Robert L. Dorsey, Jr. 8-19-99 DATE:

DEVELOPER:

BY THE ENGINEER:

"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 COUNTY SOIL CONSERVATION DISTRICT."

Donald Mean 2/19/97 DATE:

ENGINEER:

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

REVIEWED AND APPROVED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS:

John D. Bantua 8/20/99 DATE:

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 9/1/99 DATE:

Chief, Division of Land Development 9/3/99 DATE:

Director 9/9/99 DATE:

NO.	DATE	REVISION

BENCHMARK ENGINEERING, INC.
 ENGINEERS • LAND SURVEYORS • PLANNERS
 8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 FAX: 410-465-6644

BUILDER: DORSEY FAMILY HOMES, 9926 CYPRESSEME DRIVE, ELLICOTT CITY, MD 21043, PHONE: 410-465-7200

PROJECT: R. BAKER PROPERTY, LOTS 1 THRU 4 (SINGLE FAMILY DETACHED), PLAT NO. 13752

LOCATION: PARCEL: 789 - CENSUS TRACT: 6012, 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND, WATER CODE: AC1, SEWER CODE: 2010000

OWNER: ROBERT L. & JUDITH A. BAKER, 2445 HIDEAWAY LANE, VAKARIA, FL 32950

TITLE: SEDIMENT AND EROSION CONTROL PLAN

DATE: JUNE, 1999 PROJECT NO. 1283
 AUGUST, 1999

SCALE: AS SHOWN DRAWING 3 OF 3

Design: DAM/MCR Draft: MCR

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL, EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMITS SEDIMENT CONTROL STRUCTURES, DISES, FERTILIZER SLOPES AND ALL SLOPES GREATER THAN 1:1, B) 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 BY THE CONTRACTOR UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM 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, TEMPORARY SEEDING (SEC. 51) 500 (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE: 1.20 ACRES
TOTAL AREA DISTURBED: 0.22 ACRES
AREA TO BE ROOFED OR PAVED: 0.22 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.98 ACRES
TOTAL FILL: 1700 CU. YDS.
TOTAL FILL OFFSITE BORROW: 1700 CU. YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY 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 PERMANENT EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR OTHER GRADING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SO FT) FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEAT LOVEGRASS (17 LBS/1000 SO FT) FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOU.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SO FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SO FT) OF EARL-SPIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SO FT) FOR ANCHORING.

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

PERMANENT SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS/1000 SO FT) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-TYPE FERTILIZER (9 LBS/1000 SO FT).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS/1000 SO FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SO FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SO FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SO FT) OF WHEAT LOVEGRASS DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION (2) USE SOU, OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

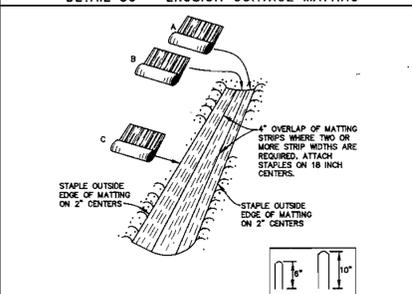
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MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

- Definition**
- Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
- Purpose**
- To provide a suitable medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
- Conditions Where Practice Applies**
- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible. If, for the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.
- Construction and Material Specifications**
- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be stored 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.
 - Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist approved by the appropriate approval authority. Referred to, topsoil shall not be a mixture of contrasting textures and shall contain less than 2% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutgrass, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
 - For sites having disturbed areas over 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - For sites having disturbed areas over 5 acres:
 - On soil meeting topsoil specifications, obtain test results detailing fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No seed 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.
 - 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.
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - Topsoil Application
 - When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
 - 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 preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation. G-21-2
 - 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 prescribed 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 26.0A.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 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 1/2 the normal lime application rate.
- References: Guideline Specifications, Soil Preparation and Sadding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute, Revised 1973.

DETAIL 30 - EROSION CONTROL MATTING



- CONSTRUCTION SPECIFICATIONS**
- KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 4" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
 - STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
 - BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
 - STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
 - WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4". OVERLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6' APART IN A STAGGERED PATTERN ON EITHER SIDE.
 - THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.
- NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

SOIL STABILIZATION MATTING

- NOT TO SCALE
- U.S. DEPARTMENT OF AGRICULTURE PAGE 2 MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE G-22-2 WATER MANAGEMENT ADMINISTRATION
- On soil meeting topsoil specifications, obtain test results detailing fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No seed 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.
 - 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.
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- VI. Topsoil Application
- When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
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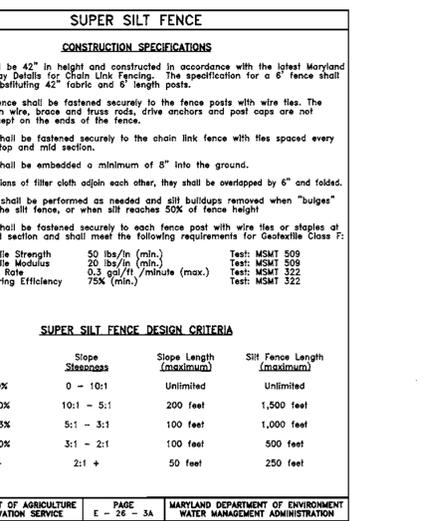
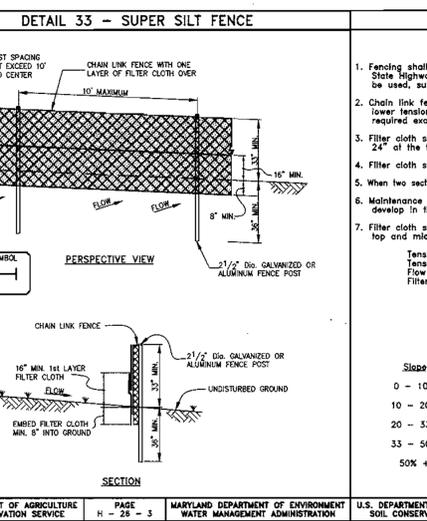
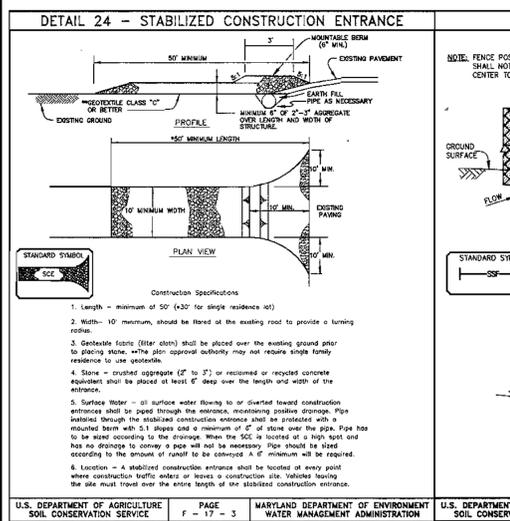
SEQUENCE OF CONSTRUCTION

- DAY 1 OBTAIN GRADING PERMIT.
 - DAY 2-8 INSTALL SEDIMENT CONTROL DEVICES THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP.
 - DAY 9-12* EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
 - DAY 13-62 CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS.
 - DAY 63-67 FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
 - DAY 68-91 WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.
- * - INDICATES SINGLE LOT HOUSE CONSTRUCTION
- NOTE: 1) SEDIMENT CONTROL LOCATION AND IMPLEMENTATION AS SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
- 2) EROSION CONTROL MATTING SHALL BE PLACED IN SWALES UNTIL VEGETATION IS ESTABLISHED OR SOLID SOU SHOULD BE USED.

SOILS LEGEND

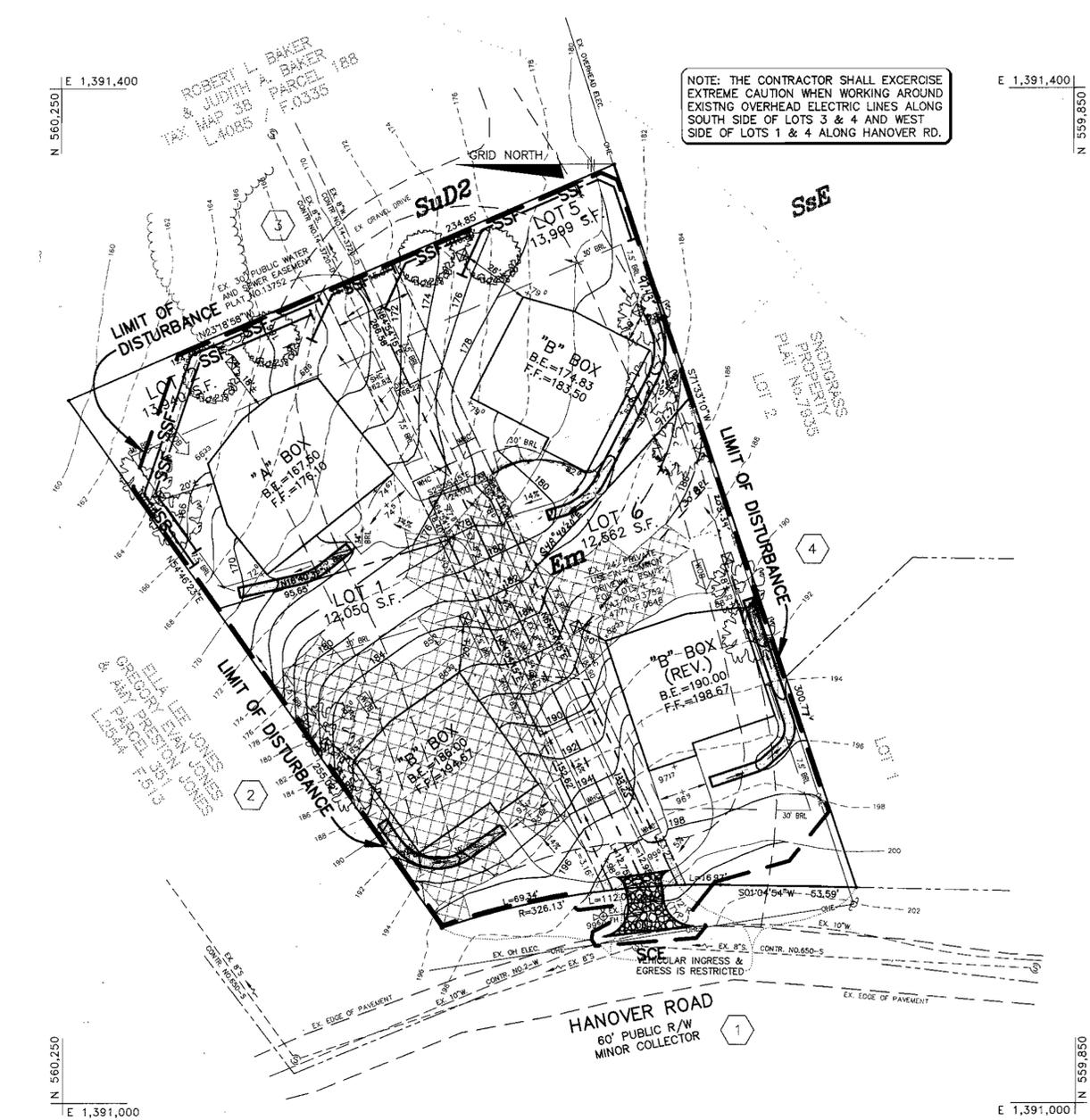
MAP SYMBOL	SOIL TYPE	MAPPING UNIT
Em	C/D	ELKTON SILT LOAM
SsE	B	SASSAFRAS SOILS - 15 TO 40 PERCENT SLOPES
Su02	B	SUNNYSIDE FINE SANDY LOAM - 5 TO 15 PERCENT SLOPES - MODERATELY ERODED

SOILS MAP NO.



LEGEND

- SOILS CLASSIFICATION**
- EXISTING CONTOURS: 999, 999, 999
- PROPOSED CONTOURS: 999
- EXISTING WOODS LINE: [Symbol]
- EXISTING WATER: [Symbol]
- EXISTING SEWER: [Symbol]
- EXISTING OVER. ELEC.: [Symbol]
- PROPOSED DRYWELL: [Symbol]
- PROPOSED STRUCTURE: [Symbol]
- PROP. WALK-OUT BASEMENT: [Symbol]
- 15% TO 24% STEEP SLOPES: [Symbol]
- LIMIT OF DISTURBANCE: [Symbol]
- PROPOSED SILT FENCE: [Symbol]
- PROP. SUPER SILT FENCE: [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE: [Symbol]



PLAN
SCALE: 1"=30'

BY THE DEVELOPER:
"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 COUNTY SOIL CONSERVATION DISTRICT."
Robert L. Baker
DEVELOPER: DATE: 8-19-99

BY THE ENGINEER:
"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 COUNTY SOIL CONSERVATION DISTRICT."
Donald Moan
ENGINEER: DATE: 8/19/99

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Jeff Sumner
NATURAL RESOURCES CONSERVATION SERVICE
DATE: 8/23/99

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS:
John V. Blanton
HOWARD COUNTY SOIL CONSERVATION DISTRICT
DATE: 8/23/99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris Hamlette
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9/3/99

Lyndal Smith
DIRECTOR
DATE: 9/3/99

NO. 1	DATE 12-11-00	REV. PROLINE, BRL, LOT NO., DIST AND BEARINGS LOT 5 & 6 PER PLAT 14532.	REVISION
BENCHMARK ENGINEERING, INC.			
ENGINEERS • LAND SURVEYORS • PLANNERS			
8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644			
BUILDER: DORSEY FAMILY HOMES 9926 CYPRESSME DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-465-7200		PROJECT: R. BAKER PROPERTY LOTS 1, 2, 5, 6 (SINGLE FAMILY DETACHED)	
OWNER: ROBERT L. & JUDITH A. BAKER 2445 HIDEAWAY LANE VAKARIA, FL 32950		LOCATION: PLAT NO. 13752 PARCEL 789 - CENSUS TRACT: 6012 1ST ELECTION DISTRICT - HOWARD COUNTY, MARYLAND WATER CODE: ACH SEWER CODE: E010000	
TITLE: SEDIMENT AND EROSION CONTROL PLAN		DATE: JUNE, 1999 AUGUST, 1999	
Design: DAM/MCR		Draft: MCR	
SCALE: AS SHOWN		PROJECT NO. 1283 DRAWING 3 OF 3	

SCHEDULE A PERIMETER LANDSCAPE EDGE				
CATEGORY	YES	NO	NO	NO
ADJACENT TO ROADWAY	YES	NO	NO	NO
ADJACENT TO PERIMETER PROPERTIES	NO	YES	YES	YES
PERIMETER NO. / LANDSCAPE TYPE	① N/A	② A	③ A	④ A
LINEAR FEET OF ROADWAY (FRONTAGE/PERIMETER)	133.47	255.02	234.85	300.76
CREDIT FOR EXISTING VEGETATION (NO OR YES W/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (NO OR YES W/LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED:				
SHADE TREES	-	4	4	5
EVERGREEN TREES	-	-	-	-
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-
SHRUBS	-	-	-	-
NUMBER OF PLANTS REQUIRED:				
SHADE TREES	-	-	-	-
EVERGREEN TREES	-	-	-	-
OTHER TREES (2:1 SUBSTITUTE)	-	-	-	-
SHRUBS (10:1 SUBSTITUTE)	-	-	-	-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)				

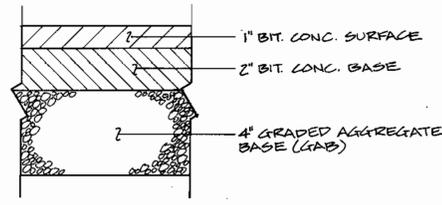
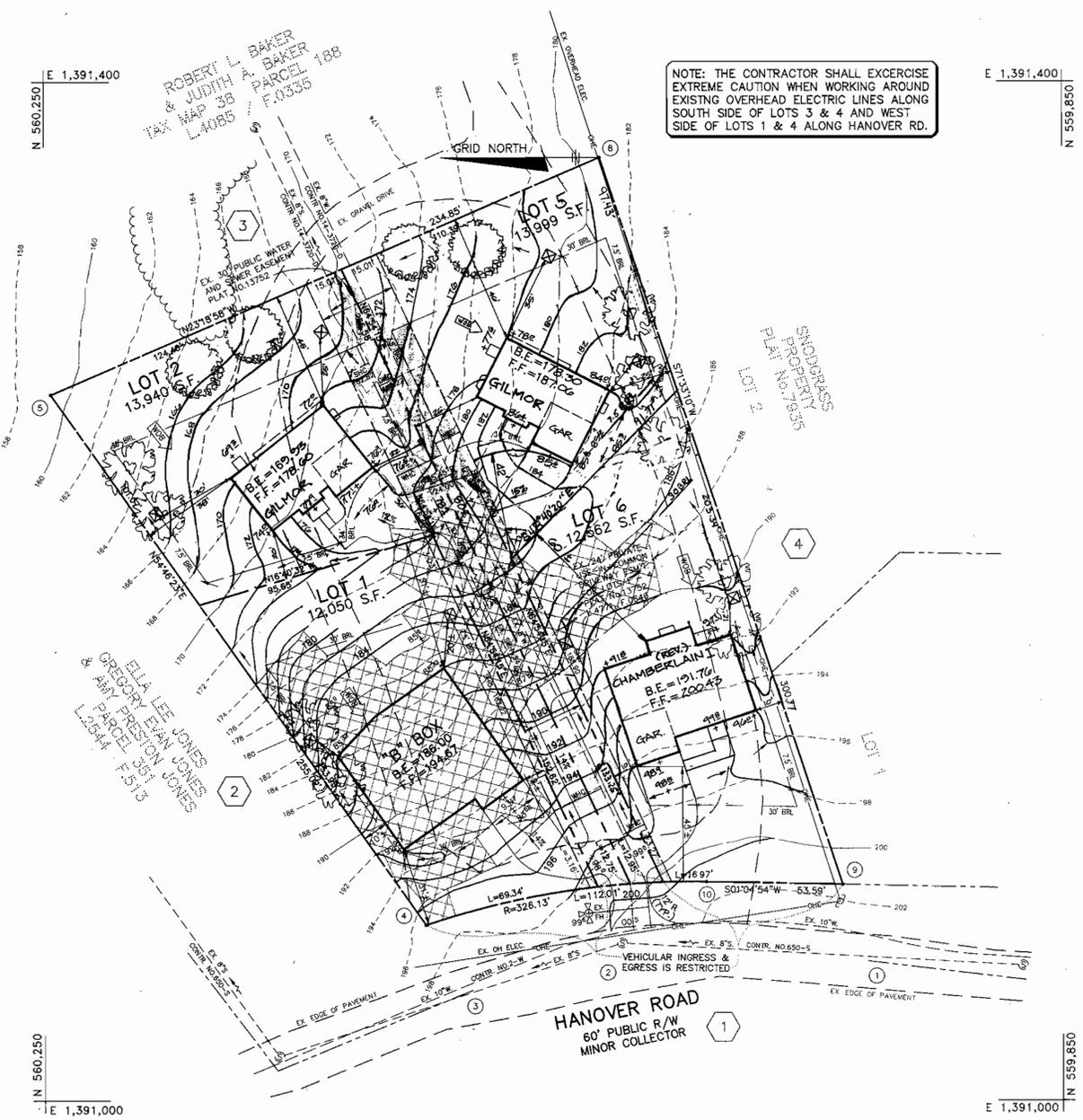
PLANTING LIST			
SYMBOL	QUANTITY	NAME	REMARKS
	9	ACER RUBRUM "RED SUNSET" OR EQUIVALENT	2 1/2" - 3" CAL.
	4	TILIA CORDATA "GREENSPIRE" OR EQUIVALENT	2 1/2" - 3" CAL.

NOTE: TREES SHOWN ARE PROPOSED AS PART OF F-99-42. NO ADDITIONAL TREES ARE REQUIRED AS PART OF THIS SITE PLAN.

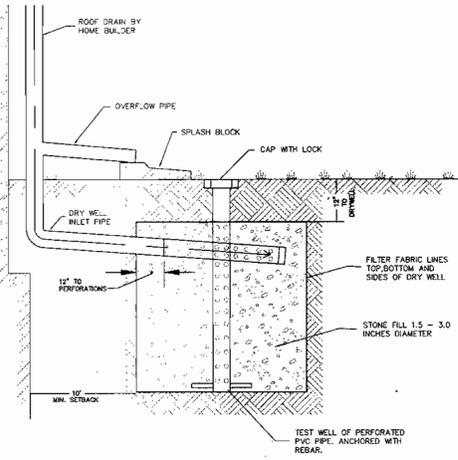
THE LANDSCAPE SURETY HAS BEEN POSTED WITH THE F-99-42 DEVELOPER'S AGREEMENT.

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WOODS LINE
- EXISTING WATER
- EXISTING SEWER
- EXISTING OVER. ELEC.
- PROPOSED DRYWELL
- PROPOSED STRUCTURE
- PROP. WALK-OUT BASEMENT
- 15% TO 24% STEEP SLOPES



TYPICAL PAVEMENT SECTION PROPOSED DRIVEWAY (P-1) NOT TO SCALE



DRY WELL DETAIL (DIMENSION: 4' x 4') NOT TO SCALE

SITE PLAN SCALE: 1" = 30'

2	12-11-00	REV. PROP. LINE, BRL. LOT NUMBER, DIST. AND BEARINGS ON LOTS 5 & 6 PER PLAT 145.32
1	3-23-00	REV. F.F. ELEV., HOUSE TYPE AND GRADING ON LOTS 2 THRU 4
NO.	DATE	REVISION

BENCHMARK ENGINEERING, INC.

ENGINEERS • LAND SURVEYORS • PLANNERS

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OWNER:	ROBERT L. & JUDITH A. BAKER 2445 HIDEAWAY LANE VAKARIA, FL 32950	LOCATION:	PLAT No. 13752 TAX MAP: 38 - BLOCK: 9 PARCEL: 799 - CENSUS TRACT: 8012 1st ELECTION DISTRICT - HOWARD COUNTY, MARYLAND WATER CODE: A01 SEWER CODE: 2090000
TITLE:	SITE DEVELOPMENT/ GRADING PLAN		
DATE:	JUNE, 1999 AUGUST, 1999	PROJECT NO.:	1283
Design:	DAM/MCR	Draft:	MCR
SCALE:	AS SHOWN	DRAWING:	2 OF 3

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County Seal
CHIEF, DEVELOPMENT ENGINEERING DIVISION 9/1/99 DATE

Cindy Stratta
CHIEF, DIVISION OF LAND DEVELOPMENT 9/2/99 DATE

James P. Roster
DIRECTOR 9/2/99 DATE

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