

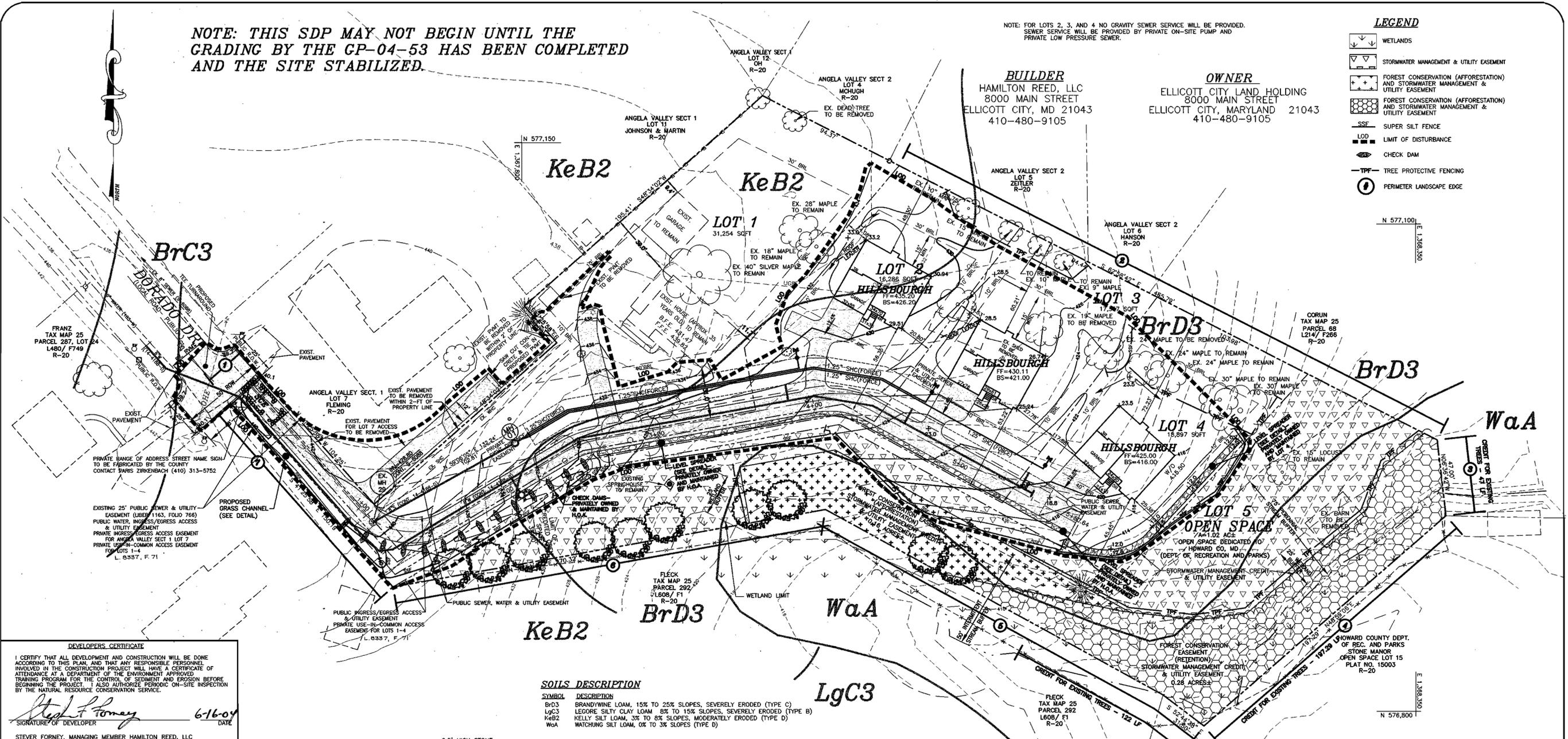


NOTE: THIS SDP MAY NOT BEGIN UNTIL THE GRADING BY THE GP-04-53 HAS BEEN COMPLETED AND THE SITE STABILIZED.

NOTE: FOR LOTS 2, 3, AND 4 NO GRAVITY SEWER SERVICE WILL BE PROVIDED. SEWER SERVICE WILL BE PROVIDED BY PRIVATE ON-SITE PUMP AND PRIVATE LOW PRESSURE SEWER.

**LEGEND**

- WETLANDS
- STORMWATER MANAGEMENT & UTILITY EASEMENT
- FOREST CONSERVATION (AFFORESTATION) AND STORMWATER MANAGEMENT & UTILITY EASEMENT
- FOREST CONSERVATION (AFFORESTATION) AND STORMWATER MANAGEMENT & UTILITY EASEMENT
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- CHECK DAM
- TREE PROTECTIVE FENCING
- PERIMETER LANDSCAPE EDGE



**DEVELOPER'S CERTIFICATE**

I 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 NATURAL RESOURCE CONSERVATION SERVICE.

*Sted F. Honey* 6-16-04  
SIGNATURE OF DEVELOPER DATE

STEVEY FORNEY, MANAGING MEMBER HAMILTON REED, LLC  
PRINTED NAME OF DEVELOPER

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**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 NATURAL RESOURCE CONSERVATION SERVICE.

*R. Jacob Hikmat*  
SIGNATURE OF ENGINEER

R. JACOB HIKMAT  
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Jim M. ...* 6/23/04  
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

*John K. ...* 6/23/04  
HOWARD COUNTY CONSERVATION DISTRICT DATE

APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*...* 7/9/04 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*...* 7/16/04 DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT

*...* 7/15/04 DATE  
DIRECTOR

**SOILS DESCRIPTION**

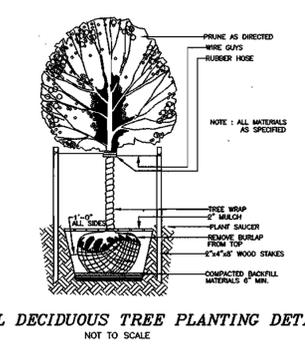
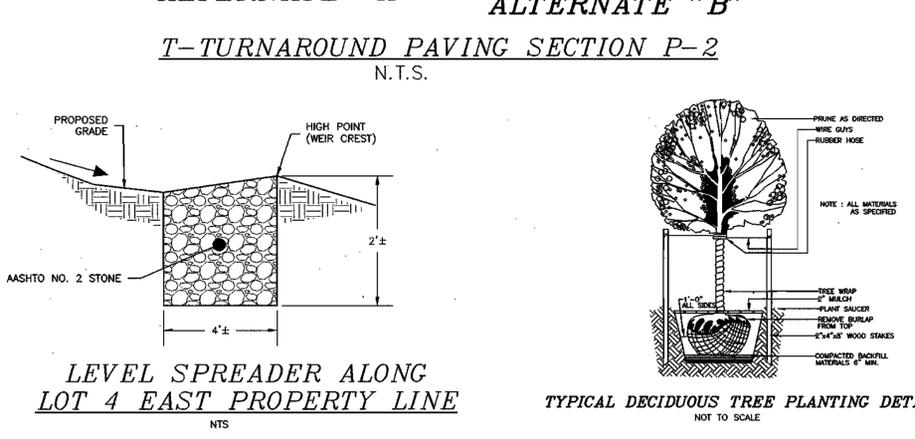
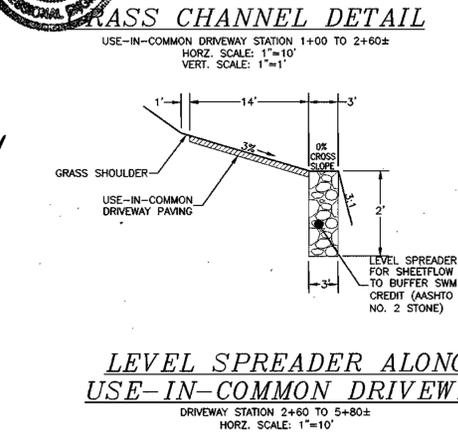
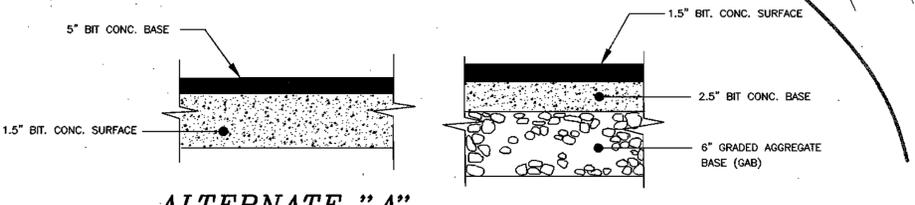
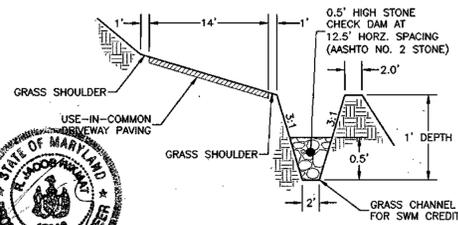
SYMBOL DESCRIPTION

BrD3 BRANDYWINE LOAM, 15% TO 25% SLOPES, SEVERELY ERODED (TYPE C)

LgC3 LEGORE SILTY CLAY LOAM, 8% TO 15% SLOPES, SEVERELY ERODED (TYPE B)

Waa KELLY SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (TYPE D)

Waa WATCHING SILT LOAM, 0% TO 3% SLOPES (TYPE D)



**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
10		ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2 1/2" - 3" CAL.
TOTAL				10 SHADE TREES

**SCHEDULE A: PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO ROADWAYS				ADJACENT TO PERIMETER PROPERTIES			
	N/A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	A (PERIMETER 5)	A (PERIMETER 6)	A (PERIMETER 7)	TOTAL
LANDSCAPE TYPE	N/A	25.00 LF	371.43 LF	47.00 LF	197.29 LF			
LINEAR FEET OF PERIMETER								
NUMBER OF PLANTS REQUIRED								
SHADE TREES	0	0	6	1	3			
EVERGREEN TREES	0	0	0	0	0			
SHRUBS	0	0	0	0	0			
CREDIT FOR EXISTING VEGETATION								
SHADE TREES	N/A		6	47				197.29 LF OF EX. TREES
EVERGREEN TREES (SUBSTITUTIONS)								
NUMBER OF PLANTS PROVIDED								
SHADE TREES	0	0	0	0	0			
EVERGREEN TREES	0	0	0	0	0			
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	0			
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	0			
CATEGORY	ADJACENT TO PERIMETER PROPERTIES				TOTAL			
LANDSCAPE TYPE	A (PERIMETER 5)	A (PERIMETER 6)	A (PERIMETER 7)					
LINEAR FEET OF PERIMETER	268.50 LF	270.32 LF	150.19 LF					
NUMBER OF PLANTS REQUIRED								
SHADE TREES	4	5	3	22				34
EVERGREEN TREES	0	0	0	0				0
SHRUBS	0	0	0	0				0
CREDIT FOR EXISTING VEGETATION								
SHADE TREES	122							366.29 LF OF EX. TREES
EVERGREEN TREES (SUBSTITUTIONS)								0
NUMBER OF PLANTS PROVIDED								
SHADE TREES	2	8	0	10				20
EVERGREEN TREES	0	0	0	0				0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0				0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0				0

\* PERIMETER 2 CREDIT FOR EXISTING TREES: TWO (2) 10" MAPLES, ONE (1) 15" MAPLE, ONE (1) 9" MAPLE, AND TWO (2) 30" MAPLE.  
\*\* PERIMETER 7: THREE (3) PROPOSED SHADE TREES HAVE BEEN RELOCATED TO PERIMETER 6, DUE TO THE LOCATION OF AN EXISTING PUBLIC SEWER & UTILITY EASEMENT ALONG THIS PERIMETER.

DATE: JUNE 2004  
PROJECT: 03-065  
ILLUSTRATION: HSP  
SCALE: 1"=30'  
APPROVAL: HSP  
MAP

no. description revisions

GIBSON PROPERTY  
LOTS 1 THRU 4 & OPEN SPACE LOT 5 - SINGLE FAMILY DETACHED  
TAX MAP 25 - PARCEL 285 - BLOCK 19  
SECOND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.  
Engineers Planners Surveyors  
5072 Drexel Hill Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0286 Fax: (301) 621-5521 Wash. (410) 997-0286 Fax.

2 OF 3

SDP-04-108

**HOWARD SOIL CONSERVATION DISTRICT**

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED 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: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

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

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOIL. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

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

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

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 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.

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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**STANDARD SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).
  - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
  - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
  - 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
  - SITE ANALYSIS:  
TOTAL AREA OF SITE: 2.94 ACRES  
AREA DISTURBED: 1.52 ACRES  
AREA TO BE ROOFED OR PAVED: 0.72 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 0.70 ACRES  
TOTAL CUT: 500 CU. YDS.  
TOTAL FILL: 500 CU. YDS.  
TOTAL WASTE/BORROW AREA LOCATION: N/A
- THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES MEASUREMENTS.
- 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 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 CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION**

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SSS 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 AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONDEERS, STONES, SLAG, 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, JOHNSON-SOON 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 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 UNDER 5 ACRES:
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

- 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 TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED 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 SOO OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

- 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, ALBERT 4" - 8" HIGHER IN ELEVATION.
- TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL 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.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

- 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 AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO 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 PHOSPHOROUS, 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.

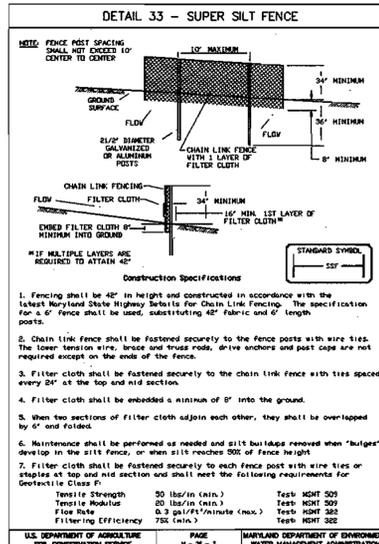
REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1. COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

**SEQUENCE OF CONSTRUCTION**

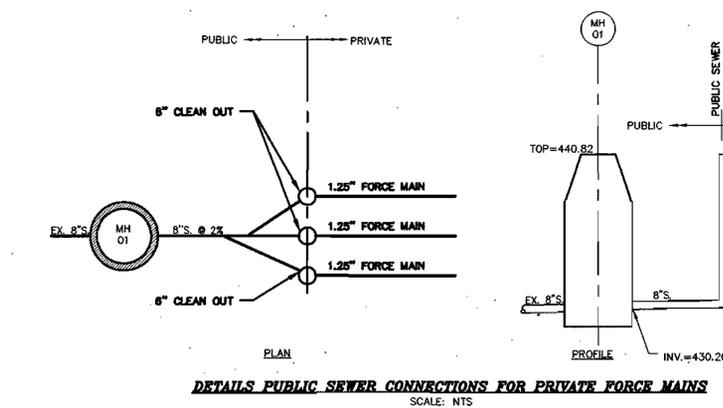
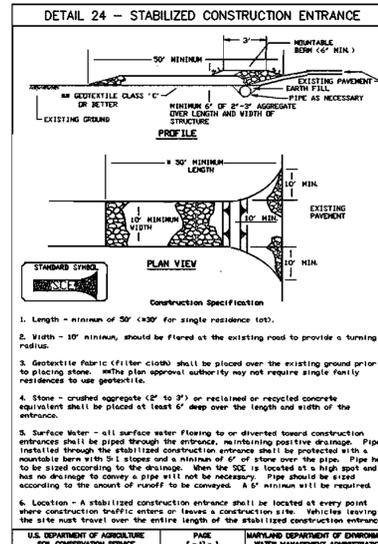
- OBTAIN GRADING PERMIT. (1 DAY)
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN. (1 DAY)
- CONSTRUCT SSF AS SHOWN ON THESE PLANS. (2 DAYS)
- COMPLETE CONSTRUCTION AS SHOWN. (60 DAYS)
- SEED AND MULCH DISTURBED AREAS. (2 DAYS)
- UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS.

**EROSION AND SEDIMENT CONTROL NOTES**

- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.



SUPER SILT FENCE			
Design Criteria			
Slope	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet



**BUILDER**  
HAMILTON REED, LLC  
8000 MAIN STREET  
ELLCOTT CITY, MD 21043  
410-480-9105

**OWNER**  
ELLCOTT CITY LAND HOLDING  
8000 MAIN STREET  
ELLCOTT CITY, MARYLAND 21043  
410-480-9105

**DEVELOPER'S CERTIFICATE**

I 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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Stephen L. Foney* 6-16-04  
DATE: 6/16/04

STEVE FONEY, MANAGING MEMBER HAMILTON REED, LLC.  
PRINTED NAME OF DEVELOPER

**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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Jacob Hikmat* 6/16/04  
DATE: 6/16/04

JACOB HIKMAT  
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim Meyer* 6/16/04  
DATE: 6/16/04

JIM MEYER  
NATURAL RESOURCE CONSERVATION SERVICE

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

Signature: *John R. Roberts* 6/16/04  
DATE: 6/16/04

JOHN R. ROBERTS  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *John R. Roberts* 7/15/04  
DATE: 7/15/04

Signature: *John R. Roberts* 7/15/04  
DATE: 7/15/04

**GIBSON PROPERTY**  
LOTS 1 THRU 4 & OPEN SPACE LOT 5 - SINGLE FAMILY DETACHED  
TAX MAP 25 - PARCEL 285 - GRID 19  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SEDIMENT CONTROL NOTES & DETAILS

date: JUNE 2004  
project: 02-027  
illustration: HSP  
scale: NTS  
approval: HSP  
MAP

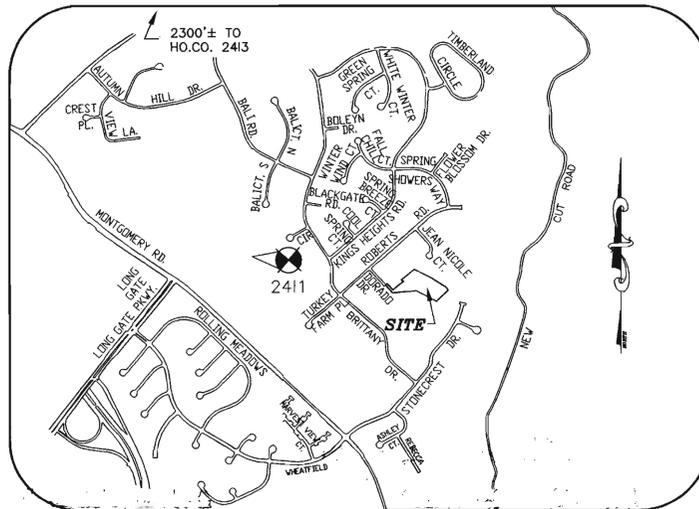
date: \_\_\_\_\_  
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revisions: \_\_\_\_\_  
no.: \_\_\_\_\_

3 OF 3

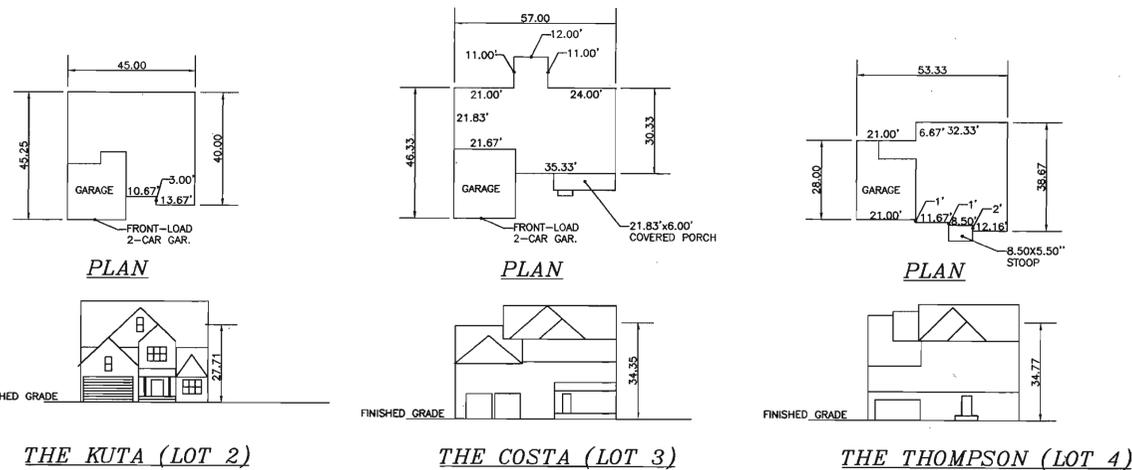
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsy Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0286 Fax (410) 997-0288

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT AND EROSION CONTROL DETAILS

# SITE DEVELOPMENT PLAN GIBSON PROPERTY LOTS 1 THRU 4 & OPEN SPACE LOT 5 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1"=100'



MINIMUM LOT SIZE CHART			
LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	16,286 SQ. FT.	2,272 SQ. FT.	14,014 SQ. FT.
3	17,357 SQ. FT.	2,760 SQ. FT.	14,597 SQ. FT.
4	18,897 SQ. FT.	3,340 SQ. FT.	15,557 SQ. FT.

### GENERAL NOTES:

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION AT (410)-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:
 

MISS UTILITY	1-800-257-7777
VERIZON TELEPHONE COMPANY	(410) 725-9976
HOWARD COUNTY BUREAU OF UTILITIES	(410) 313-4000
AT&T CABLE LOCATION DIVISION	(410) 393-3533
BALTIMORE GAS & ELECTRIC	(410) 685-0123
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
HOWARD COUNTY DEPT. OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION	(410) 313-1880
- SITE ANALYSIS CHART:
  - LOCATION : TAX MAP 25, PARCEL 285, SECOND ELECTION DISTRICT
  - TOTAL PROJECT AREA: 2.94 AC.±
  - LIMIT OF DISTURBED AREA: 1.52 AC.
  - ZONING : R-20
  - PROPOSED USE FOR SITE : RESIDENTIAL
  - TYPE OF PROPOSED UNIT : SFD
  - NUMBER OF PROPOSED BUILDABLE LOTS : 4
  - AREA OF PUBLIC RIGHT-OF-WAY : 0.0 AC.
  - AREA OF BUILDABLE LOTS : 1.21 AC. ±
  - MINIMUM LOT AREA : 14,000 SQ. FT.
  - DPZ FILE NOS. : WP-03-039, F-02-181, PLAT NOS. 16683-16685
- TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY MILDENBERG, BOENDER, & ASSOCIATES, INC. ON OR ABOUT MAY 2002.
- COORDINATES BASED ON NAD'83 (HORZ) AND NGVD29 (VERT) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC STATIONS NO 2411 AND 2413.
 

STA. 2411	N577,298.654,	E1,366,075.133	EL.437.831
STA. 2413	N580,648.904	E1,364,974.471	EL.404.482
- ALL DRIVEWAY ENTRANCES FOR THIS PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL R 6.06.
- WATER AND SEWER ARE PUBLIC, CONTRACT # 14-4188-D.
- WETLAND DELINEATION PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. ON OR ABOUT JUNE 2002.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- OPEN SPACE REQUIREMENTS HAVE BEEN SATISFIED UNDER F-02-181. OPEN SPACE LOT TO BE UTILIZED FOR FOREST CONSERVATION AREA.
- FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT. FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FULFILLED UNDER F-02-181 BY RETENTION OF 0.28 ACRES AND AFFORESTATION OF 0.16 ACRES. FINANCIAL SURETY FOR THE ON-SITE RETENTION OF 0.28 ACRES (12,196.80 SQ. FT.) IN THE AMOUNT OF \$2,439.36 AND AFFORESTATION OF 0.16 ACRES (6,969.60 SQ. FT.) IN THE AMOUNT OF \$3,484.80 HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$5,924.16.
- STORMWATER MANAGEMENT IS PROVIDED UNDER F-02-181 VIA GRASS CHANNEL AND SHEETFLOW TO BUFFER SWM CREDITS IN ACCORDANCE WITH THE 2000 MDE SWM MANUAL. TOTAL SWM CREDIT IS 0.044 AC-FT & TOTAL REV. CREDIT IS 0.05 AC.
- ALL EXISTING STRUCTURES ON PARCEL 285 TO BE REMOVED UNLESS OTHERWISE NOTED. THE EXISTING DWELLING ON LOT 1 AND THE SPRINGHOUSE IN OPEN SPACE LOT 5 ARE TO REMAIN. NO STEEP SLOPES EXISTS ON SITE.
- LANDSCAPING FOR LOTS 2, 3 & 4 IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING FOR LOTS 2, 3 & 4 AND O.S. LOT 5 (10 SHADE TREES) WILL BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$3,000.00.
- NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS, OR THEIR BUFFERS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS :
  - WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).
  - SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT RADIUS.
  - STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
  - STRUCTURE CLEARANCES - MINIMUM 12 FEET
  - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- PER SECTION 128 OF THE ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACK PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AS AMENDED UNDER COUNCIL BILL NO. 45-2003.
- PLEASE NOTE OFFSITE GRADING PROPOSED ON ANGELA VALLEY SECTION 1, LOT 7. PERMISSION FOR OFFSITE GRADING ON ANGELA VALLEY, SECTION 1, LOT 7, PROVIDED PER LETTER DATED NOVEMBER 4, 2003.
- THE DRIVEWAY INTERSECTION SHALL CONFORM TO HOWARD COUNTY STANDARD DETAIL R6.06.

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	PARCEL #	
GIBSON PROPERTY	N/A	285	
PLAT # OR L/F	BLOCK #	ZONE	TAX MAP
L.818, F.684	19	R-20	25
WATER CODE		ELEC. DIST.	CENSUS TRACT
F-05		2ND	6056.02
PROPOSED IMPROVEMENTS:		SEWER CODE	
SFD		14000520	

ADDRESS CHART	
LOT #	ADDRESS
1	4417 DORADO DRIVE
2	4421 DORADO DRIVE
3	4425 DORADO DRIVE
4	4429 DORADO DRIVE

**BUILDER**  
HAMILTON REED, LLC  
8000 MAIN STREET  
ELLICOTT CITY, MD 21043  
410-480-9105

**OWNER**  
ELLICOTT CITY LANDHOLDING, LLC  
C/O LAND DESIGN & DEVELOPMENT  
8000 MAIN STREET  
ELLICOTT CITY, MD 21043  
410-480-9105

**DEVELOPERS CERTIFICATE**

I 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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature of Developer: *Stephen F. Forney* DATE: 6-16-04  
STEVE FORNEY, MANAGING MEMBER HAMILTON REED, LLC.  
PRINTED NAME OF DEVELOPER

**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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature of Engineer: *R. Jacob Hikmat*  
R. JACOB HIKMAT  
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim Murray* DATE: 6/28/04  
JIM MURRAY, NATURAL RESOURCE CONSERVATION SERVICE

Signature: *John K. Robinson* DATE: 6/28/04  
JOHN K. ROBINSON, HOWARD SOIL CONSERVATION DISTRICT

APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_  
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: *Chris DeMunn* DATE: 7/9/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: *Chris DeMunn* DATE: 7/12/04  
CHIEF, DIVISION OF LAND DEVELOPMENT

Signature: *John K. Robinson* DATE: 7/15/04  
DIRECTOR (ACTING)



date	JUNE 2004
project	03065
illustration	HSP
scale	HSP
approval	HSP
AS SHOWN MAP	

date	11/10/04
description	ADDED NEW HOUSE MODELS FOR LOTS 2-4
revisions	

**GIBSON PROPERTY**  
LOTS 1 THRU 4 & OPEN SPACE LOT 5 - SINGLE FAMILY DETACHED  
TAX MAP 25 - PARCEL 285 - BLOCK 19  
HOWARD COUNTY, MARYLAND  
SECOND ELECTION DISTRICT  
COVER SHEET

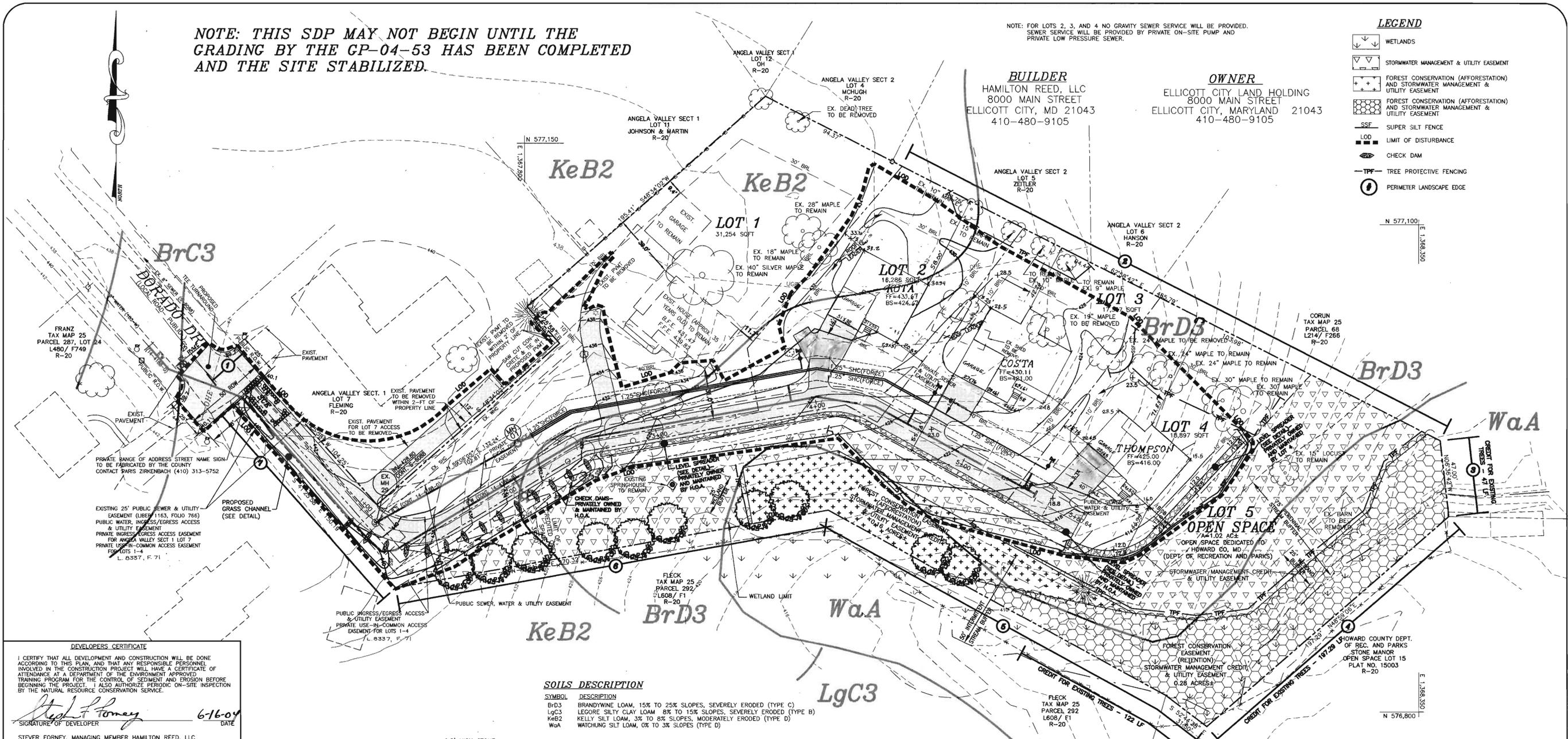
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0236 Fax: (301) 621-5521 Wash. (410) 997-0298 Fax

NOTE: THIS SDP MAY NOT BEGIN UNTIL THE GRADING BY THE GP-04-53 HAS BEEN COMPLETED AND THE SITE STABILIZED.

NOTE: FOR LOTS 2, 3, AND 4 NO GRAVITY SEWER SERVICE WILL BE PROVIDED. SEWER SERVICE WILL BE PROVIDED BY PRIVATE ON-SITE PUMP AND PRIVATE LOW PRESSURE SEWER.

LEGEND

- WETLANDS
- STORMWATER MANAGEMENT & UTILITY EASEMENT
- FOREST CONSERVATION (AFFORESTATION) AND STORMWATER MANAGEMENT & UTILITY EASEMENT
- FOREST CONSERVATION (AFFORESTATION) AND STORMWATER MANAGEMENT & UTILITY EASEMENT
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- CHECK DAM
- TREE PROTECTIVE FENCING
- PERIMETER LANDSCAPE EDGE



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Signature: *Stev Forney* DATE: 6-16-04  
STEVE FORNEY, MANAGING MEMBER HAMILTON REED, LLC  
PRINTED NAME OF DEVELOPER

**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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *R. Jacob Hikmat* DATE: 6/16/04  
R. JACOB HIKMAT  
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim M. Ryan* DATE: 6/22/04  
USA - NATURAL RESOURCE CONSERVATION SERVICE

Signature: *John K. Robertson* DATE: 6/22/04  
HOWARD SOIL CONSERVATION DISTRICT

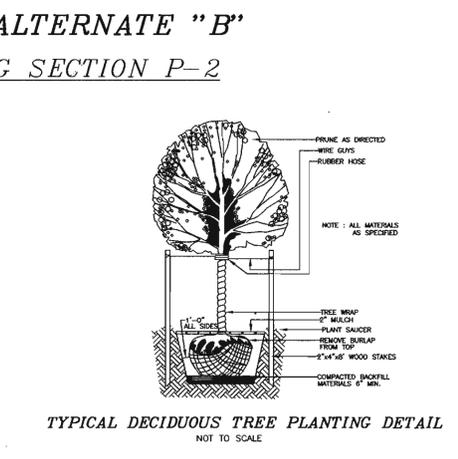
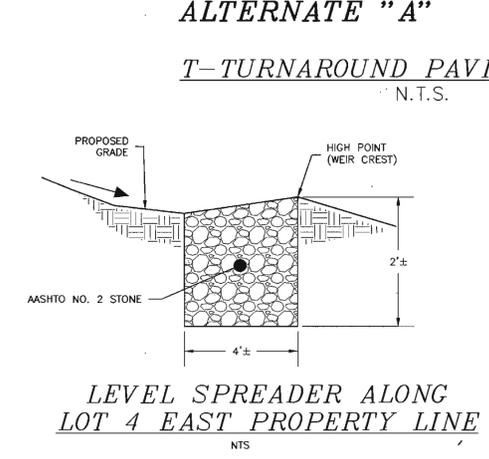
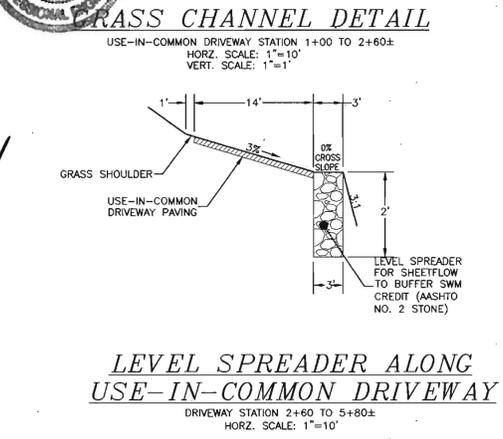
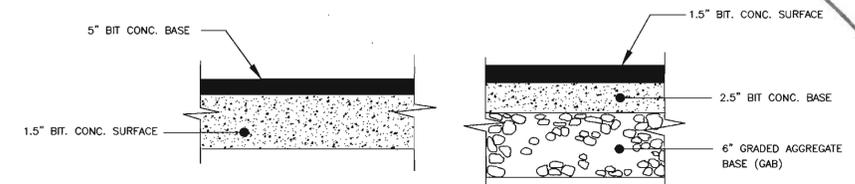
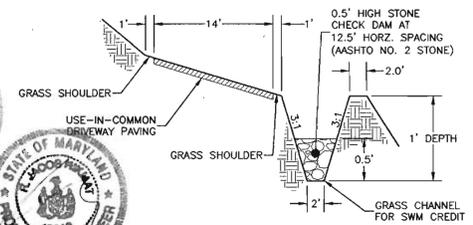
APPROVED: FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER: HOWARD COUNTY HEALTH DEPARTMENT  
DATE: \_\_\_\_\_

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
DATE: 7/9/04  
DATE: 7/12/04  
DATE: 7/15/04

**SOILS DESCRIPTION**

SYMBOL	DESCRIPTION
BrD3	BRANDYWINE LOAM, 15% TO 25% SLOPES, SEVERELY ERODED (TYPE C)
LgC3	LEGORE SILTY CLAY LOAM 8% TO 15% SLOPES, SEVERELY ERODED (TYPE B)
KeB2	KELLY SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (TYPE D)
WaA	WATCHUNG SILT LOAM, 0% TO 3% SLOPES (TYPE D)



**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	
10		ACER SACCHARUM	'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2 1/2" - 3" CAL.
TOTAL	10				10 SHADE TREES

**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO ROADWAYS		ADJACENT TO PERIMETER PROPERTIES		TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	
LANDSCAPE TYPE	N/A (PERIMETER 1)	371.43 LF	47.00 LF	197.29 LF	
LINEAR FEET OF PERIMETER	25.00 LF				
NUMBER OF PLANTS REQUIRED					
SHADE TREES	0	6	1	3	
EVERGREEN TREES	0	0	0	0	
SHRUBS	0	0	0	0	
CREDIT FOR EXISTING VEGETATION			47 LF OF EX. TREES	197.29 LF OF EX. TREES	
SHADE TREES	N/A	6			
EVERGREEN TREES (SUBSTITUTIONS)					
NUMBER OF PLANTS PROVIDED					
SHADE TREES	0	0	0	0	
EVERGREEN TREES	0	0	0	0	
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	
CATEGORY	ADJACENT TO PERIMETER PROPERTIES		TOTAL		
LANDSCAPE TYPE	A (PERIMETER 5)	A (PERIMETER 6)	A (PERIMETER 7)		
LINEAR FEET OF PERIMETER	268.50 LF	270.32 LF	150.19 LF		
NUMBER OF PLANTS REQUIRED					
SHADE TREES	4	5	3	22	
EVERGREEN TREES	0	0	0	0	
SHRUBS	0	0	0	0	
CREDIT FOR EXISTING VEGETATION	122 LF OF EX. TREES	N/A	N/A	366.29 LF OF EX. TREES	
SHADE TREES				6	
EVERGREEN TREES (SUBSTITUTIONS)				0	
NUMBER OF PLANTS PROVIDED					
SHADE TREES	2	8	0	10	
EVERGREEN TREES	0	0	0	0	
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	

\* PERIMETER 2 CREDIT FOR EXISTING TREES : TWO (2) 10" MAPLES, ONE (1) 9" MAPLE, ONE (1) 9" MAPLE, AND TWO (2) 30" MAPLE.  
\*\* PERIMETER 7 : THREE (3) PROPOSED SHADE TREES HAVE BEEN RELOCATED TO PERIMETER 6, DUE TO THE LOCATION OF AN EXISTING PUBLIC SEWER & UTILITY EASEMENT ALONG THIS PERIMETER.

Project: 03-065  
date: JUNE 2004  
illustration: HSP  
scale: 1"=30'  
approval: HSP  
MAP

CHANGED HOUSE TYPES ON LOTS 2, 3 & 4.  
11/01/04  
date: 11/01/04  
revisors:

GIBSON PROPERTY  
LOTS 1 THRU 4 & OPEN SPACE LOT 5 - SINGLE FAMILY DETACHED  
TAX MAP 25 - PARCEL 285 - BLOCK 19  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 987-0236 Balt. (301) 621-5521 Wash. (410) 997-0288 Fax.

2 OF 3  
SDP-04-108

**NOTE: THIS SDP MAY NOT BEGIN UNTIL THE GRADING BY THE GP-04-53 HAS BEEN COMPLETED AND THE SITE STABILIZED.**

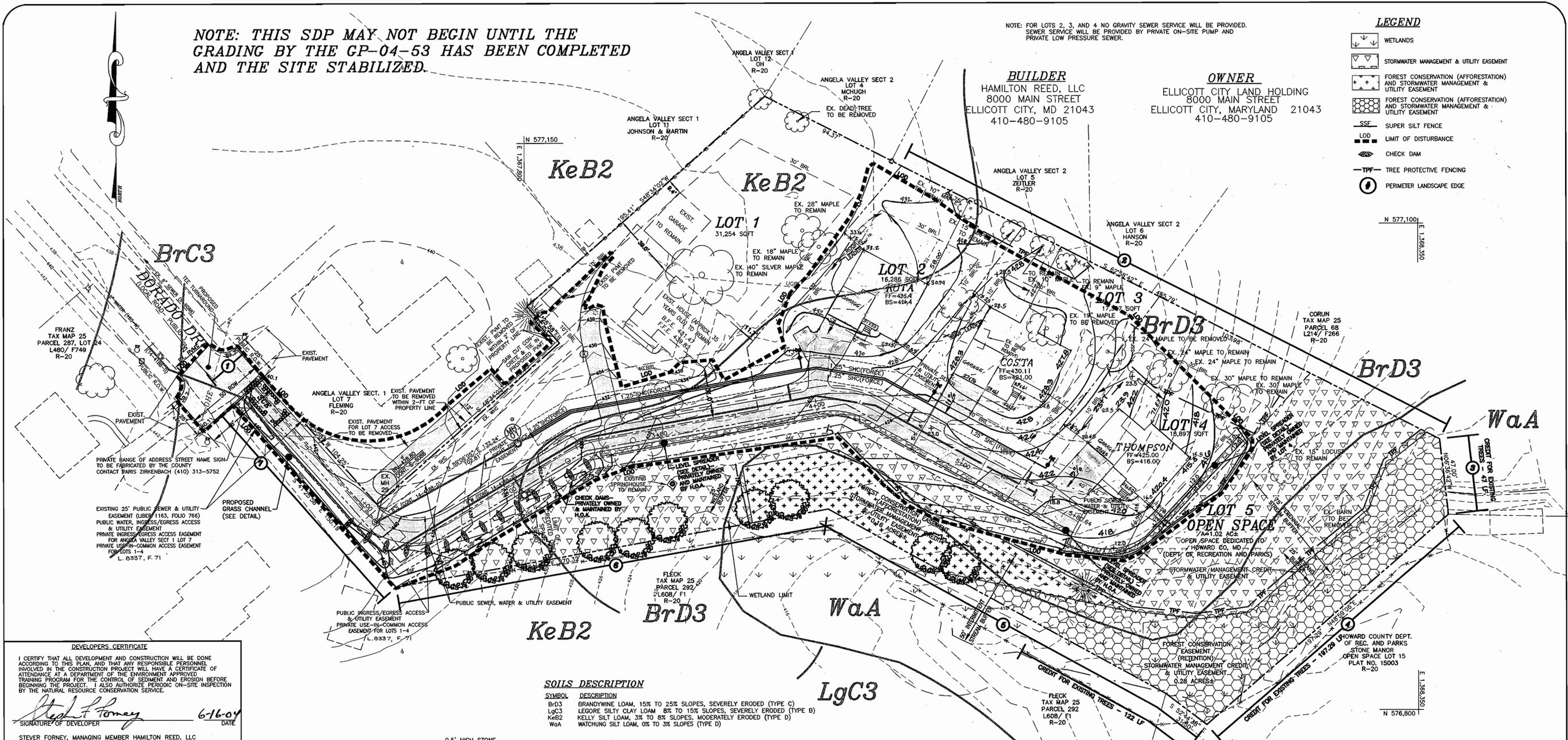
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**LEGEND**

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**BUILDER**  
HAMILTON REED, LLC  
8000 MAIN STREET  
ELLICOTT CITY, MD 21043  
410-480-9105

**OWNER**  
ELLICOTT CITY LAND HOLDING  
8000 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
410-480-9105



date	JUNE 2004
project	03-065
illustration	HSP
approval	HSP
scale	1"=30'

date	9/22/07
description	REVISED GRADING LOTS 3 & 4
revisions	11/01/04
no.	2
no.	1

**GIBSON PROPERTY**  
LOTS 1 THRU 4 & OPEN SPACE LOT 5 - SINGLE FAMILY DETACHED  
TAX MAP 25 - PARCEL 285 - BLOCK 19  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SITE DEVELOPMENT PLAN

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Signature: *Stev Forney* DATE: 6-16-04  
STEVE FORNEY, MANAGING MEMBER HAMILTON REED, LLC  
PRINTED NAME OF DEVELOPER

**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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *R. Jacob Hikmat*  
R. JACOB HIKMAT  
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim Myron* DATE: 6/28/04  
USDA - NATURAL RESOURCE CONSERVATION SERVICE

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

Signature: *John A. Robertson* DATE: 6/28/04  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE SYSTEMS

Signature: *[Signature]* DATE: 7/9/04  
COUNTY HEALTH OFFICER  
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

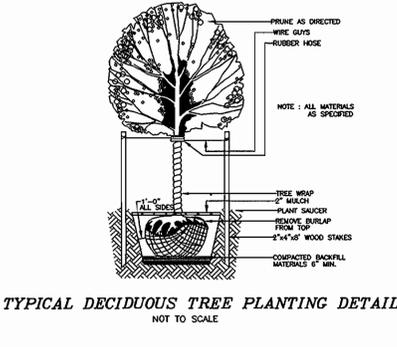
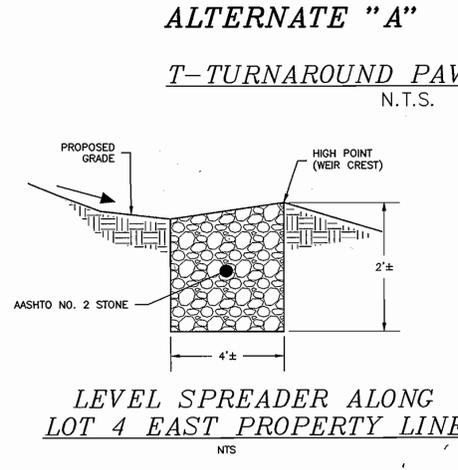
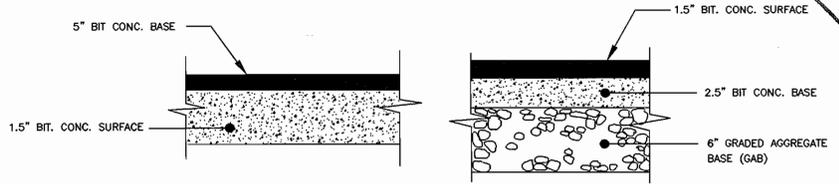
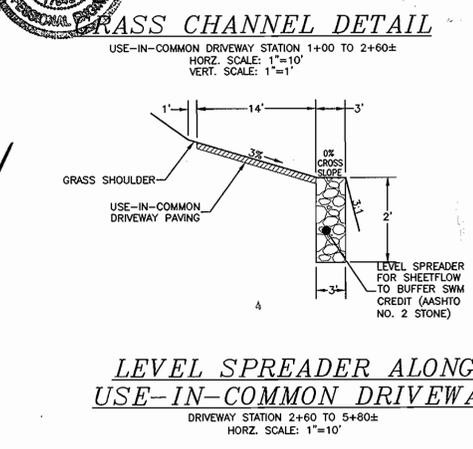
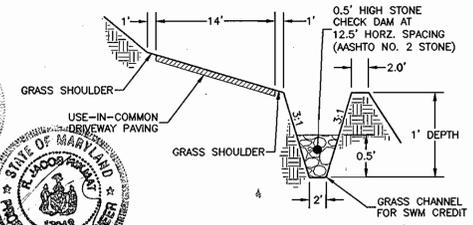
Signature: *[Signature]* DATE: 7/12/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: *[Signature]* DATE: 7/15/04  
CHIEF, DIVISION OF LAND DEVELOPMENT

Signature: *[Signature]* DATE: 7/15/04  
DIRECTOR

**SOILS DESCRIPTION**

SYMBOL	DESCRIPTION
BrD3	BRANDYWINE LOAM, 15% TO 25% SLOPES, SEVERELY ERODED (TYPE C)
LgC3	LEGOIRE SILTY CLAY LOAM, 8% TO 15% SLOPES, SEVERELY ERODED (TYPE B)
KeB2	KELLY SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (TYPE D)
Waa	WATCHUNG SILT LOAM, 0% TO 3% SLOPES (TYPE D)



**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
10	○	ACER SACCHARUM	GREEN MOUNTAIN	2 1/2" - 3" CAL.
TOTAL				
10				10 SHADE TREES

**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO ROADWAYS				ADJACENT TO PERIMETER PROPERTIES			
	N/A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	A (PERIMETER 4)	A (PERIMETER 5)	A (PERIMETER 6)	A (PERIMETER 7)	TOTAL
LANDSCAPE TYPE	N/A	25.00 LF	371.43 LF	47.00 LF	268.50 LF	270.32 LF	150.19 LF	
LINEAR FEET OF PERIMETER								
NUMBER OF PLANTS REQUIRED								
SHADE TREES	0	0	6	1	4	0	3	22
EVERGREEN TREES	0	0	0	0	0	0	0	0
SHRUBS	0	0	0	0	0	0	0	0
CREDIT FOR EXISTING VEGETATION			6	47	122	N/A	N/A	366.29
SHADE TREES (SUBSTITUTIONS)	N/A							
EVERGREEN TREES (SUBSTITUTIONS)								
NUMBER OF PLANTS PROVIDED								
SHADE TREES	0	0	0	0	2	8	0	10
EVERGREEN TREES	0	0	0	0	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	0	0	0	0
CREDIT FOR EXISTING VEGETATION								
SHADE TREES	122							366.29
EVERGREEN TREES (SUBSTITUTIONS)								0
NUMBER OF PLANTS PROVIDED								
SHADE TREES	2	8	0	0	2	8	0	10
EVERGREEN TREES	0	0	0	0	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0	0	0	0	0

\* PERIMETER 2 CREDIT FOR EXISTING TREES : TWO (2) 10" MAPLES, ONE (1) 15" MAPLE, ONE (1) 9" MAPLE, AND TWO (2) 30" MAPLE  
\*\* PERIMETER 7 : THREE (3) PROPOSED SHADE TREES HAVE BEEN RELOCATED TO PERIMETER 6, DUE TO THE LOCATION OF AN EXISTING PUBLIC SEWER & UTILITY EASEMENT ALONG THIS PERIMETER.

**MILDENBERG, BOENDER & ASSOC., INC.**  
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(410) 997-0296 Fax: (301) 621-5521 Wash. (410) 997-0298 Fax

