

LANDSCAPING NOTES

1. The unit prices to be used for establishing surety requirements shall be in accordance with the adopted County Fee Schedule...

2. At the time of plant installation, all shrubs and trees listed and approved on the Landscape Plan, shall comply with the proper height requirement...

Developer's/Owner's Landscape Certificate

I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Landscape Manual.

Calvin Boone DATE 5/2/06

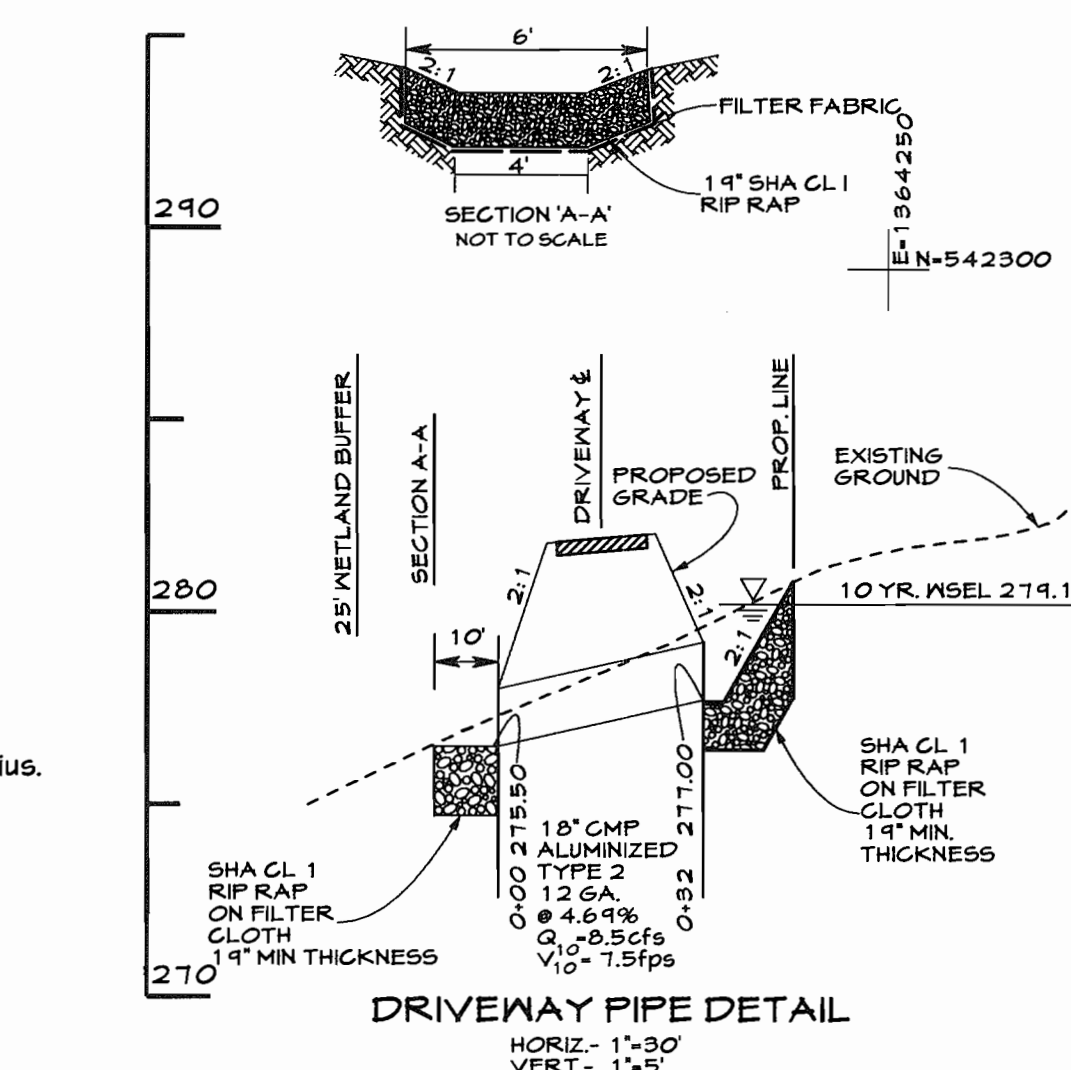
GENERAL NOTES

- 1) This property is zoned R-12 per the February 2, 2004 Comprehensive Zoning Plan.
2) The total area of the site is 5.74 acres or 25003 square feet.
3) The total disturbed area of the site is 282 acres or 12283 square feet.

Table with 4 columns: KEY, QUAN., BOTANICAL NAME, COMMON NAME, SIZE, ROOT, SPACING. Lists plants like Acer Rubrum, Quercus palustris, Fraxinus americana.

Table with 4 columns: CATEGORY, ADJACENT TO ROADWAYS, ADJACENT TO PERIMETER PROPERTIES. Lists landscape types like NONE, A, A, A.

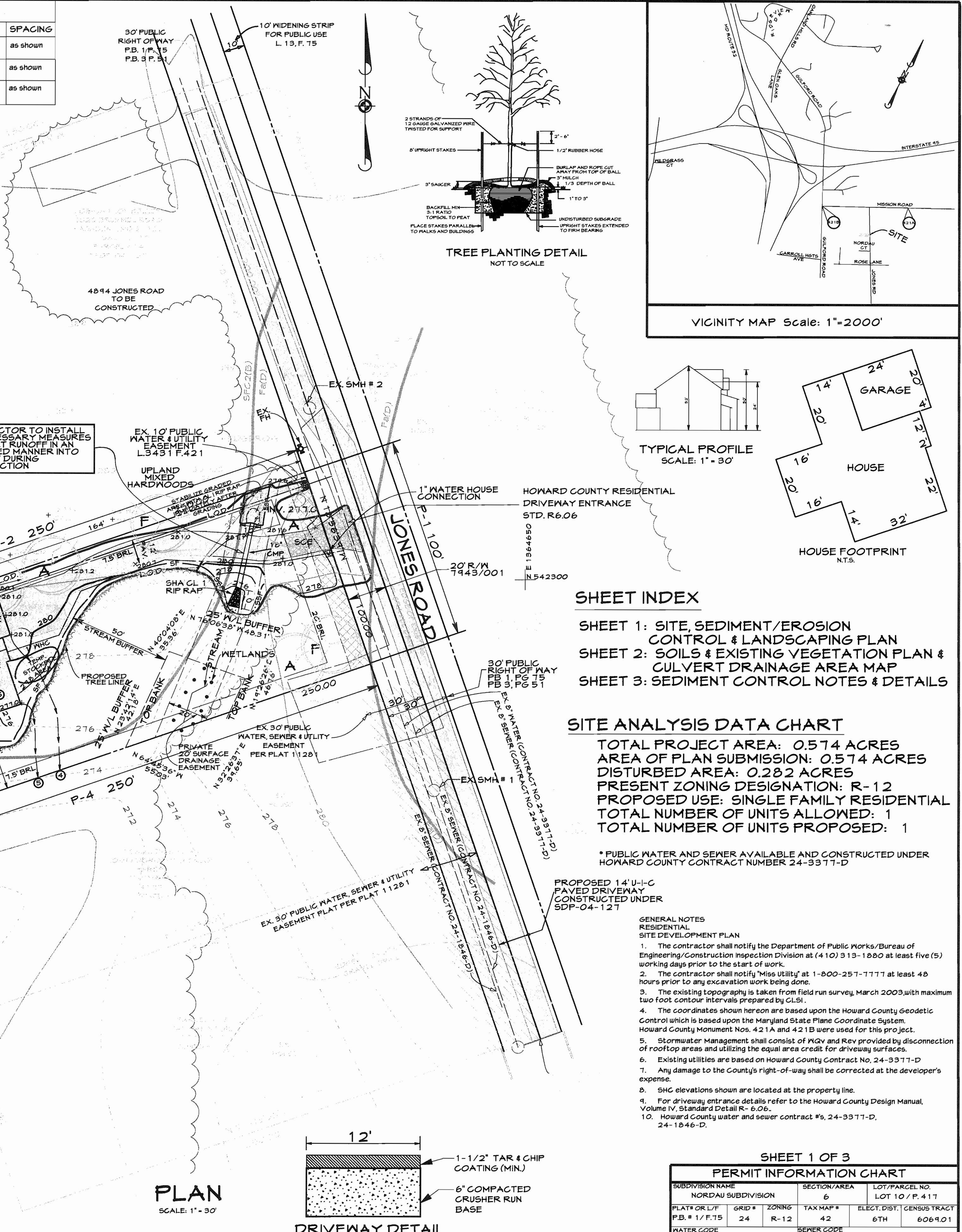
Table with 4 columns: CATEGORY, ADJACENT TO ROADWAYS, ADJACENT TO PERIMETER PROPERTIES. Lists landscape types like NONE, A, A, A.



LEGEND table with columns SYMBOL and DESCRIPTION. Lists symbols for contours, fences, wetlands, roof top drainage, and driveway details.

ENGINEER'S CERTIFICATE: I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN...

DEVELOPER'S CERTIFICATE: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN...



SEWER SERVICE INFORMATION table with columns LOT #, INV. @ MAIN, INV. @ EGHT, MIN. SEWERABLE EL., PROP. BSMT. EL.



PERMIT INFORMATION CHART and ADDRESS CHART. Includes subdivision name, section/area, lot/parcel no., and street address.

CAD Drawing File Name: G:\2003\DEN SITE\SDP.DGN

PERMANENT SEEDING NOTES
 APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONGLIVED 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:
 1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 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 (1 LBS./1000 SQ. FT.)
 2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (28 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR 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 311 FESCUE OR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 60 LBS. KENTUCKY 311 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE 105 LBS./1000 SQ.FT. OF NEERING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF MELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 311 TALL FESCUE AND MULCH WITH 2 TON/ACRE MELL-ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 40 LBS./1000 SQ. FT.) OF UNROTTED WHEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES OF 8 FEET OR HIGHER, USE 3 1/2 GALLONS PER ACRE (5 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 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF NEERING LOVEGRASS (0.7 LBS./1000 SQ.FT.) FOR THE PERIOD OF NOVEMBER THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF MELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OR USE SOD.

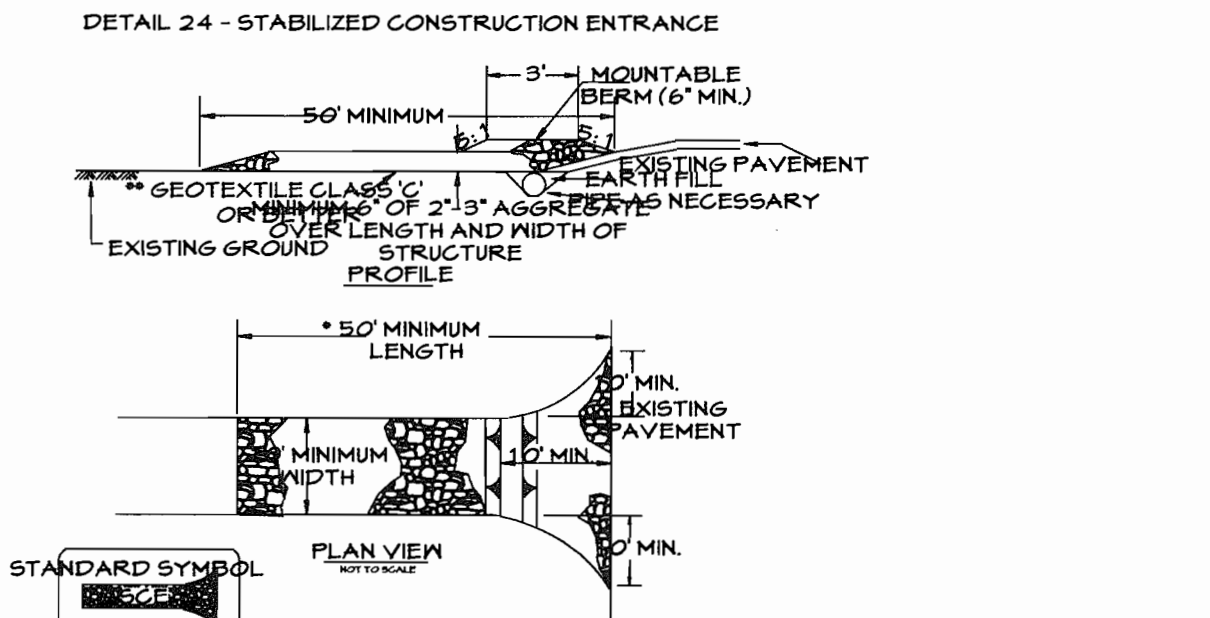
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 40 LBS./1000 SQ.FT.) OF UNROTTED WHEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GAL. PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES OF 8 FEET OR HIGHER, USE 3 1/2 GAL. PER ACRE (5 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.

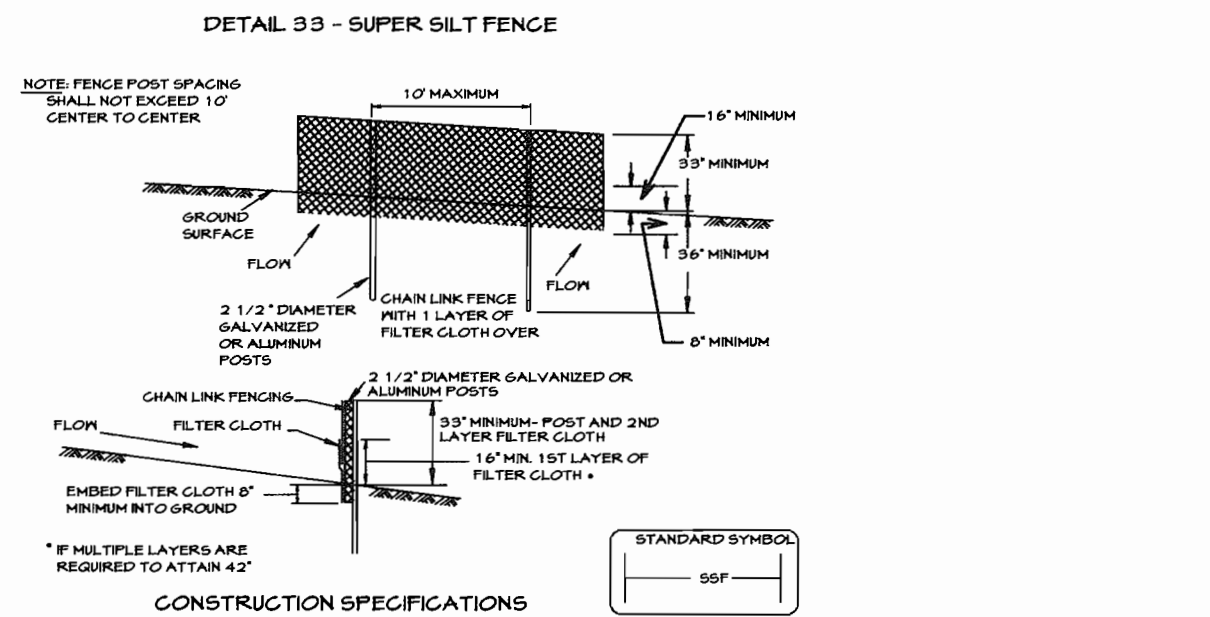
Standard Sediment Control Notes

- 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 (13 - 1852).
- 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 re-disturbance, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 5:1. 1/4 days for all other disturbed or graded areas of 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 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 5.1), sod (Sec. 5.4), temporary seeding (Sec. 5.2) and mulching (Sec. 5.2). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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: 0.574 Acres
 Area Disturbed: 0.282 Acres
 Area to be rooted or paved: 0.113 Acres
 Area to be vegetatively stabilized: 0.141 Acres
 Total Soil: 4.18 CU YDS.
 Total Fill: 13.2 CU YDS.
 Offsite waste/borrow area location: WASTE MATERIAL SHALL BE TAKEN TO AN OFFSITE AREA WITH AN ACTIVE GRADING PERMIT.
 On-site waste/borrow area location: WASTE MATERIAL SHALL BE TAKEN TO AN OFFSITE AREA WITH AN ACTIVE GRADING PERMIT.
 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 control, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this final approval is received by the inspection agency if applicable.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

SEQUENCE OF CONSTRUCTION
 1. OBTAIN GRADING PERMIT
 2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN (1 DAY)
 3. INSTALL CULVERT. CONTRACTOR TO INSTALL ANY MEASURES NECESSARY TO DIVERT SURFACE RUNOFF INTO CULVERT DURING CONSTRUCTION
 4. IMMEDIATELY STABILIZE UPSTREAM AREA GRADED FOR INSTALLATION OF CULVERT WITH SOD, SHA, CLIFTRAP
 5. PERFORM NECESSARY GRADINGS, AND STABILIZE THE SITE, BUILD HOUSE (2 MOS.)
 6. AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS (2 DAYS)



- LENGTH - MINIMUM OF 5' (*30' FOR SINGLE RESIDENCE LOT).
- WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT. APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
- STONE - CRUSHED AGGREGATE (2' TO 3') OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
- SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE PIPE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM CURB IS REQUIRED.
- LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.



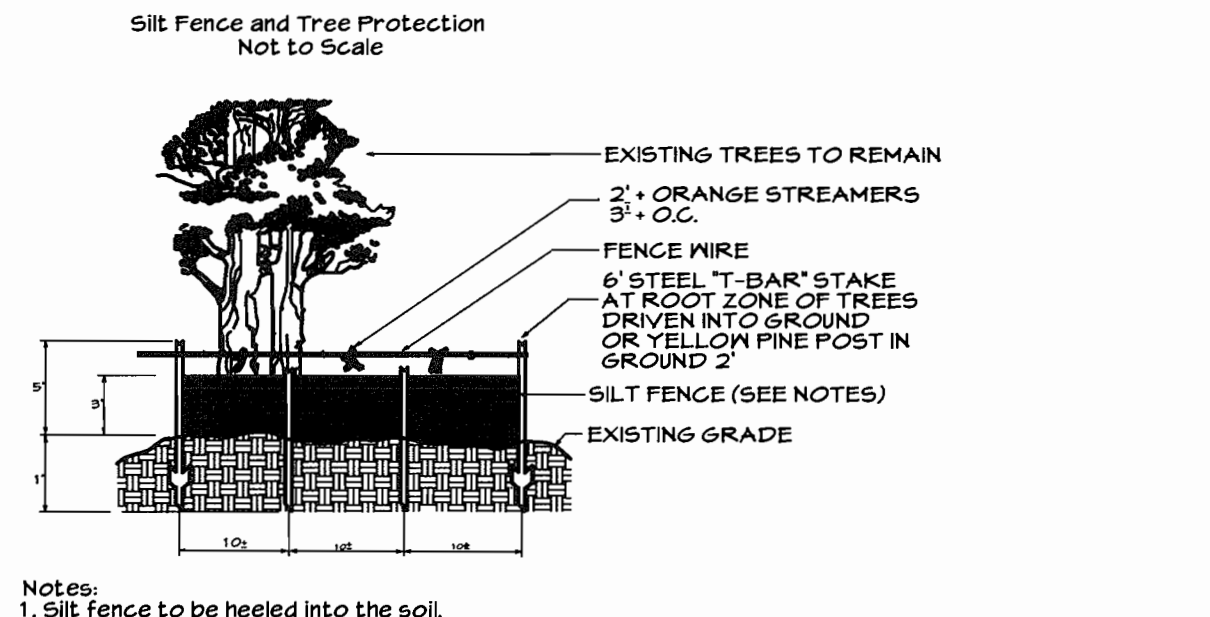
CONSTRUCTION SPECIFICATIONS

FENCE SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6" FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND LENGTH FEET.

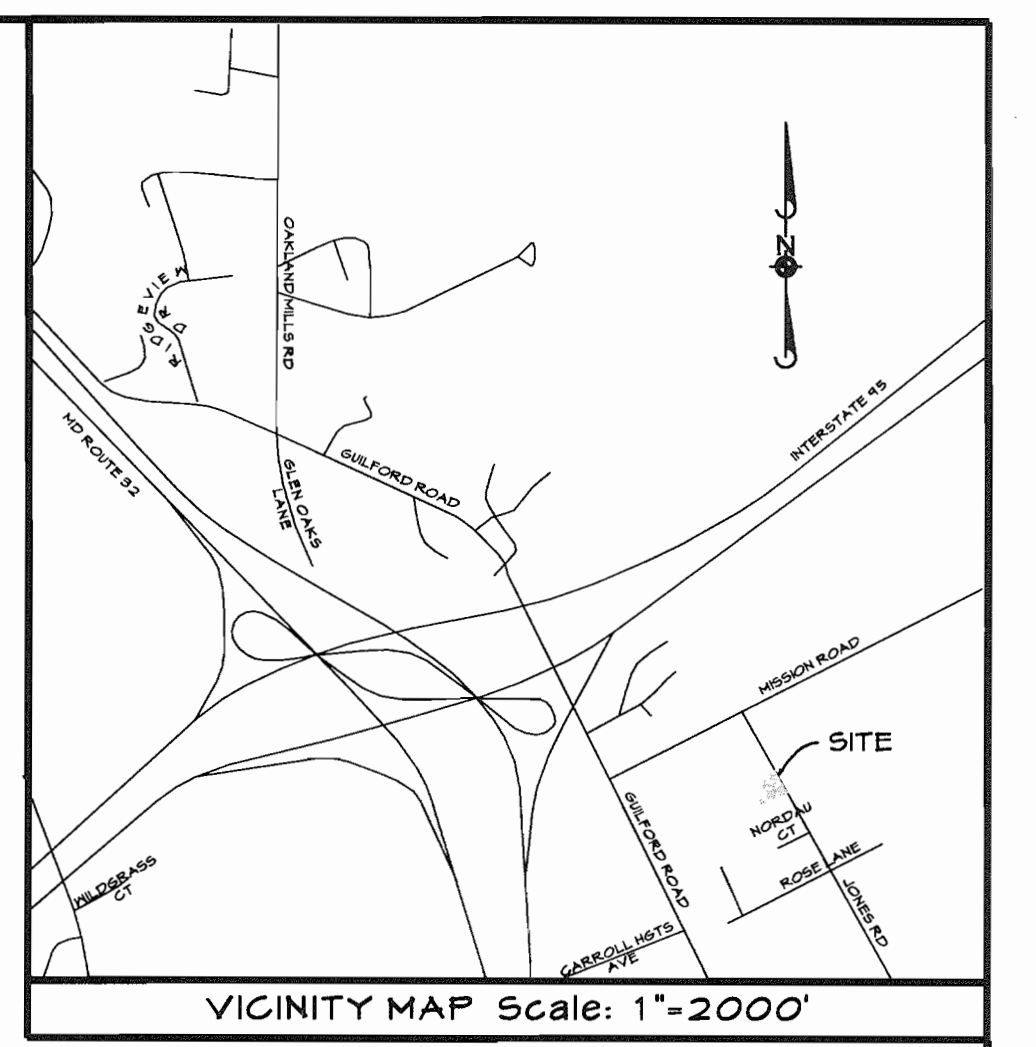
- THE FIELDS DO NOT NEED TO SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE END OF THE FENCE.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 3" AT THE TOP AND MID SECTION.
- FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 6" INTO THE GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BULLETS REMOVED WHEN BULLETS DEVELOP IN THE SILT FENCE OR WHEN SILT REACHES 50% OF FENCE HEIGHT.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS P:

TENSILE STRENGTH	50 LBS./IN (MIN)	TEST: MSHT 504
TENSILE MODULUS	20 LBS./IN (MIN)	TEST: MSHT 504
FLOOR RATE	0.3 GAL/YD (MIN) (MAX)	TEST: MSHT 522
FILTERING EFFICIENCY	75% (MIN)	TEST: MSHT 522

SLOPE	SLOPE STEEPNESS	DESIGN CRITERIA	
		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 - 35%	5:1 - 3:1	100 FEET	1,000 FEET
35 - 50%	3:1 - 2:1	100 FEET	500 FEET
50% +	2:1 +	50 FEET	250 FEET



- Notes:
- Silt fence to be heeled into the soil.
 - Wire, snow fence, etc. for tree protection only.
 - Boundaries of Retention Area will be established as part of the forest conservation plan review process.
 - Boundaries of Retention Area should be staked and flagged prior to installing device.
 - Avoid root damage when placing anchor posts.
 - Device should be properly maintained throughout construction.
 - Protection signs are also required - see Figure C-4.
 - Locate fence outside the Critical Root Zone.



CAD Drawing File Name: G:\2003\20030401.DGN SITE SITESHEET2DETAILS.DGN

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Meyer 5/19/06
 DATE

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

John R. Robert 5/19/06
 DATE

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

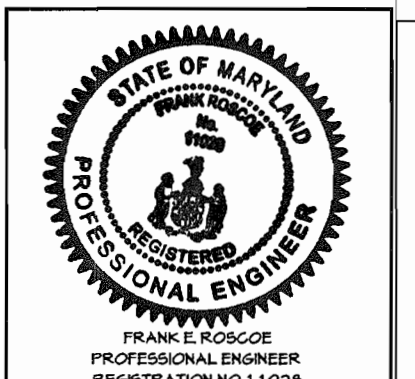
Cindy Hammett 5/21/06
 DATE

Mark J. Angelo 5/31/06
 DATE



FREDERICK OFFICE:
 3111 Pegasus Court, Suite B
 Frederick, MD 21704-8318
 (301) 848-1739
 FAX (301) 862-8004

WESTMINSTER OFFICE:
 439 East Main Street
 Westminster, MD 21157-5539
 (410) 848-1700
 FAX (410) 848-1791



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT:

Frank E. Roscoe, Jr. 4/10/06
 DATE

FRANK E. ROSCOE, JR.
 PROFESSIONAL ENGINEER REG. NO. 11028

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT:

Calvin Boone 5/2/06
 DATE

OWNER / DEVELOPER

ERNEST LEROY & AMILDA GREEN
 4007 N ROGERS AVE
 BALTIMORE, MD 21207-7128

GEB CONSTRUCTION SERVICES
 215 WEST MANOR COURT
 MT. AIRY, MD 21171
 (410-984-5045)

SHEET 2 OF 3

SEDIMENT CONTROL NOTES & DETAILS

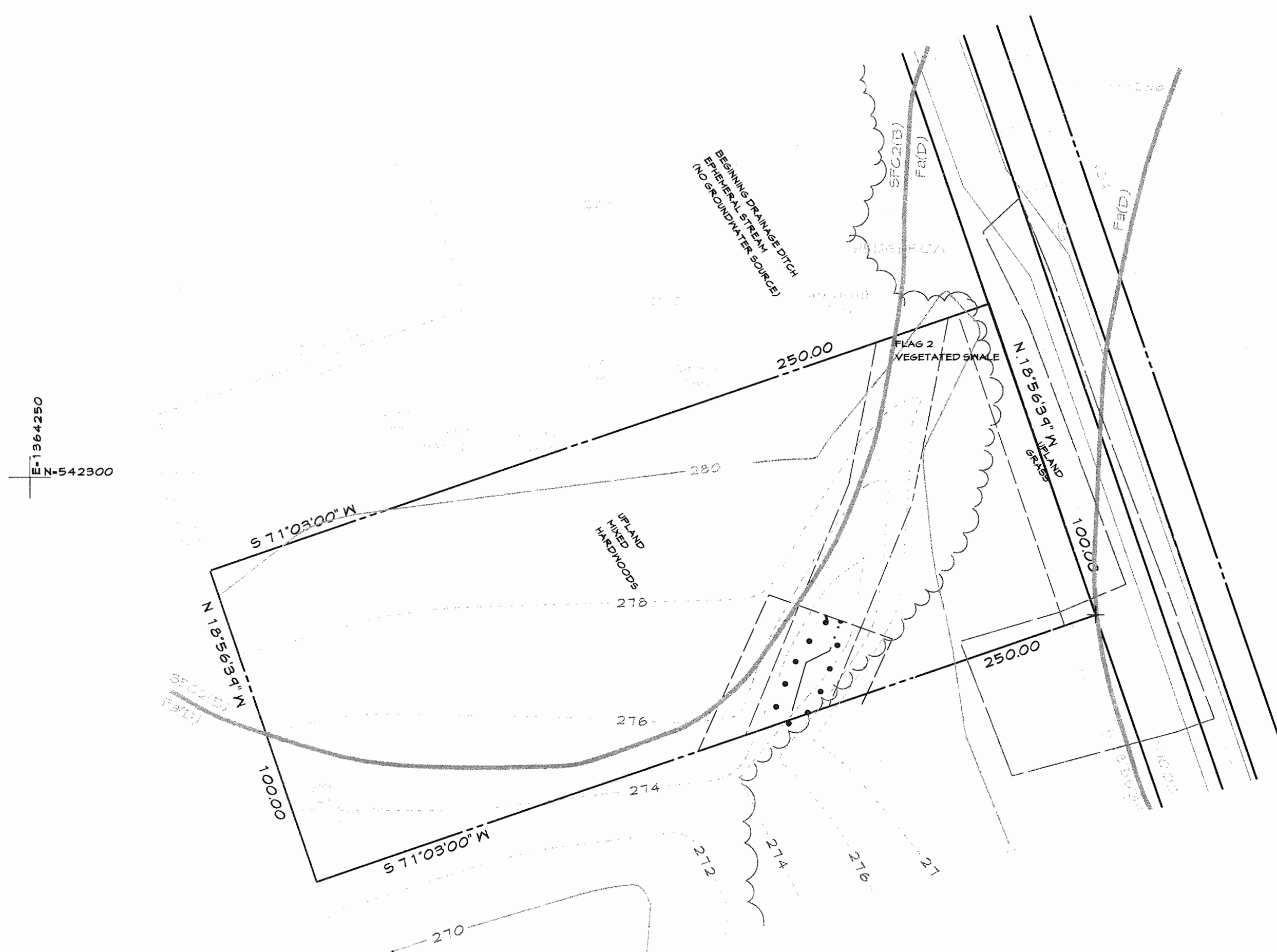
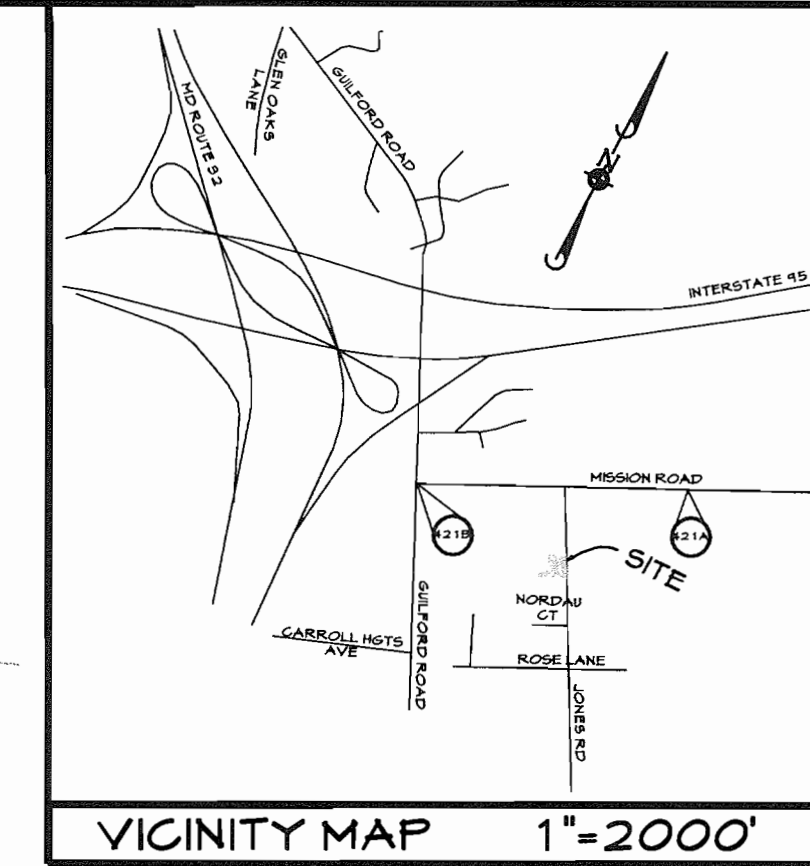
CALVIN BOONE PROPERTY

TAX MAP 42, GRID 24, PARCEL 417
 6TH ELECTION DISTRICT
 SCALE 1" = 30'

HOWARD COUNTY, MARYLAND
 DATE: JANUARY, 2006

County File No. 5DP-06-064

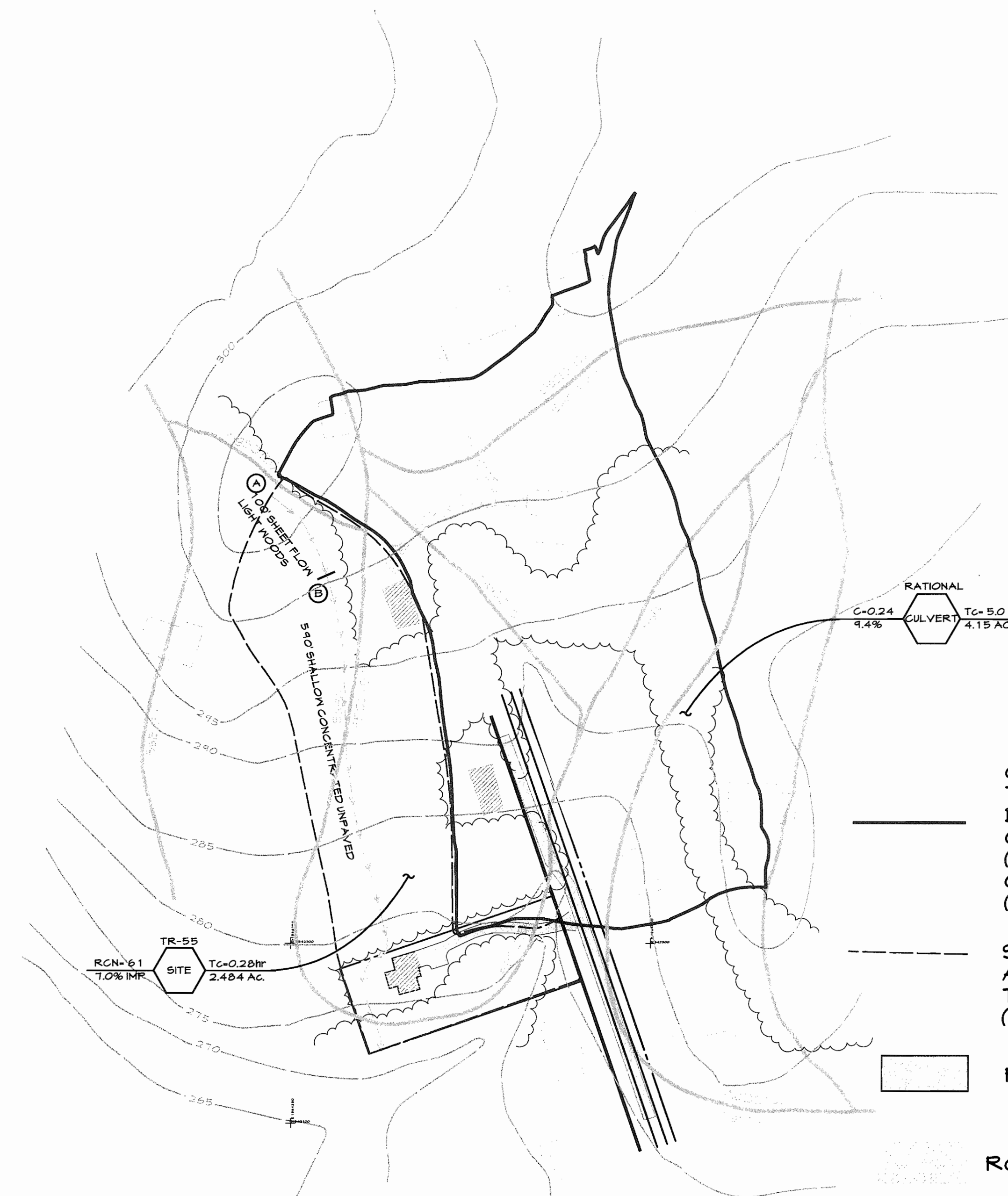
I:\WORK\2003\20030401.DGN SITE SITESHEET2DETAILS.DGN App: 10, 2006 13:05:45



ONSITE SOILS

SCALE: 1" = 30'

SOIL SYMBOL	SOIL SERIES	HSG
S&E	SASSAFRAS	B
SFC2	SASSAFRAS	B
Fa	FALLINGTON	D
BeB2	BELTSVILLE	C
BeC2	BELTSVILLE	C
NoB2	WOODSTOWN	C



CULVERT DRAINAGE AREA MAP

SCALE: 1" = 100'

- OFF-SITE AREA TO PROPOSED DRIVEWAY CULVERT (EXCLUDED FROM CpV CALCULATION) (RATIONAL METHOD)
- SITE AND OFF-SITE AREA FOR CpV DETERMINATION (TR-55)
- PAVE IMPERVIOUS
- ROOFTOP IMPERVIOUS
- TREELINE

CAD Drawing File Name: 2003 2009 201 DGN SITE SITESHT3.DGN

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

HOWARD SCD DEPARTMENT OF PLANNING & ZONING

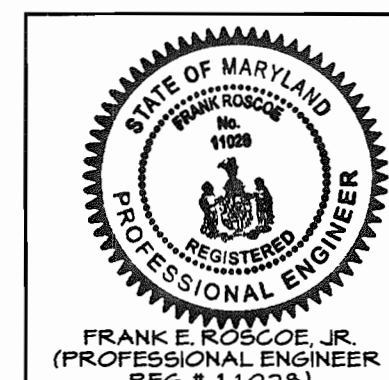
APPROVED:

Cindy Hand 5/31/06
CHIEF, DIVISION OF LAND DEVELOPMENT

Mark M. Wright 5/31/06
DIRECTOR



FREDERICK OFFICE: 3111 Pegasus Court, Suite B, Frederick, MD 21704-8318
WESTMINSTER OFFICE: 439 East Main Street, Westminister, MD 21157-5539



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Frank E. Roscoe, Jr. 4/10/06
FRANK E. ROSCOE, JR., PROFESSIONAL ENGINEER, REG. NO. 11028

DEVELOPER'S CERTIFICATE
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Calvin Boone 5/2/06
CALVIN & JODY BOONE, PROFESSIONAL ENGINEER, REG. NO. 11028

CALVIN & JODY BOONE
506 AGORN COURT
MT. AIRY, MARYLAND 21171

C&B CONSTRUCTION SERVICES
215 WEST MANOR COURT
MT. AIRY, MD 21171
(410-984-5045)

SHEET 3 OF 3

EXISTING VEGETATION/ SOILS PLAN AND CULVERT DRAINAGE AREA MAP
CALVIN BOONE PROPERTY
TAX MAP 42, GRID 24, PARCEL 417
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1" = 30' DATE: JANUARY, 2006

County File No. SDP-06-064