

SHEET INDEX	
1.	Site Development Plan
2.	Sediment & Erosion Control Plan
3.	Sediment Control & Landscape Details

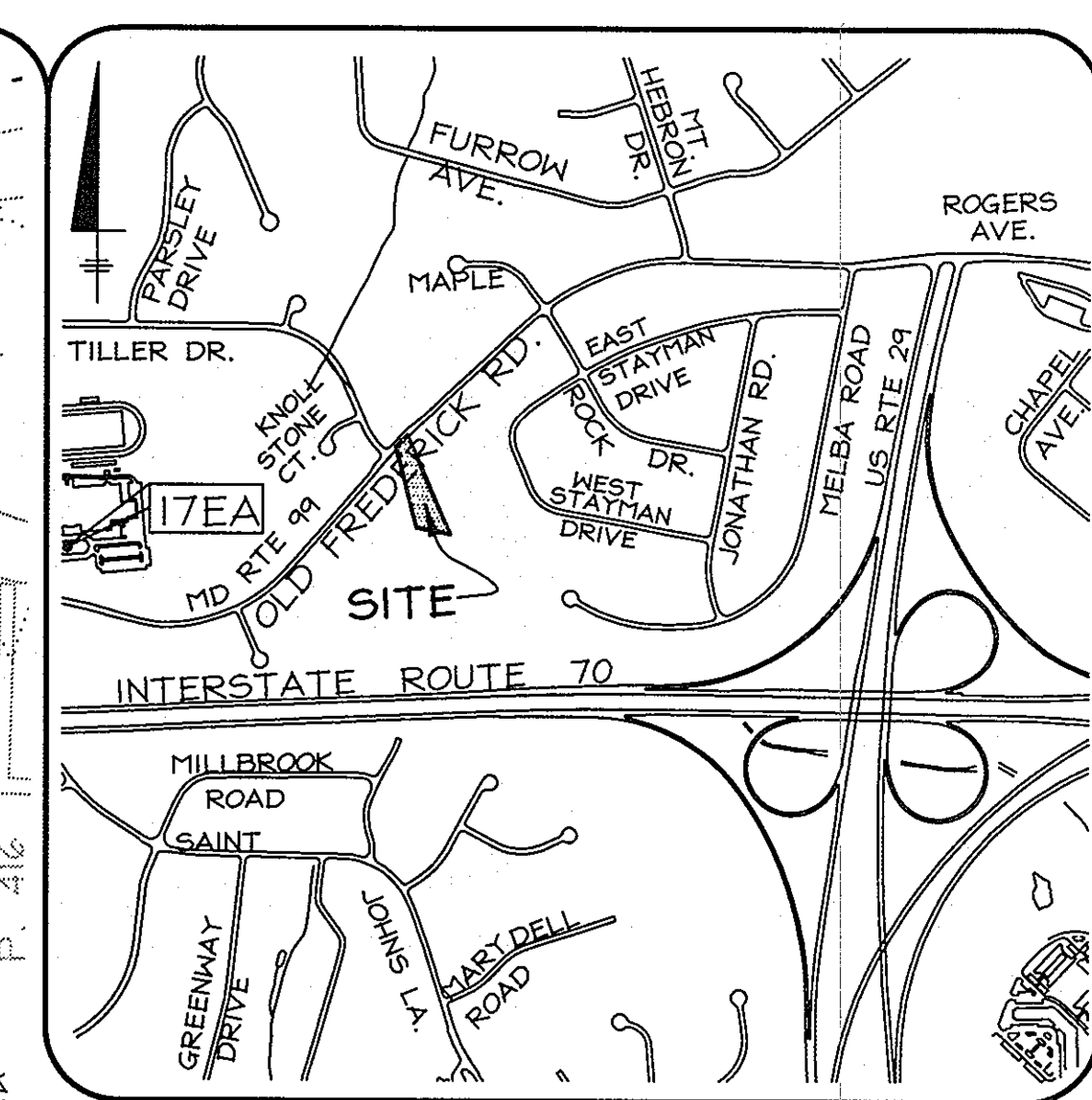
BENCHMARKS:

HOWARD COUNTY GEODETIC CONTROL: 17EA
Elevation: 479.475
Station is a standard stamped disc set on top of concrete monument. Located in parking lot island with entrance to flag pole at Mt. Hebron High School.

HOWARD COUNTY GEODETIC CONTROL: 17EB
Elevation: 454.183
Station is a standard stamped disc set on top of concrete monument. Located on south side of MD Route 99, 224 ft. from entrance to the Bethany Fire Station.

PLAN

PROFILE
NO SCALE



VICINITY MAP

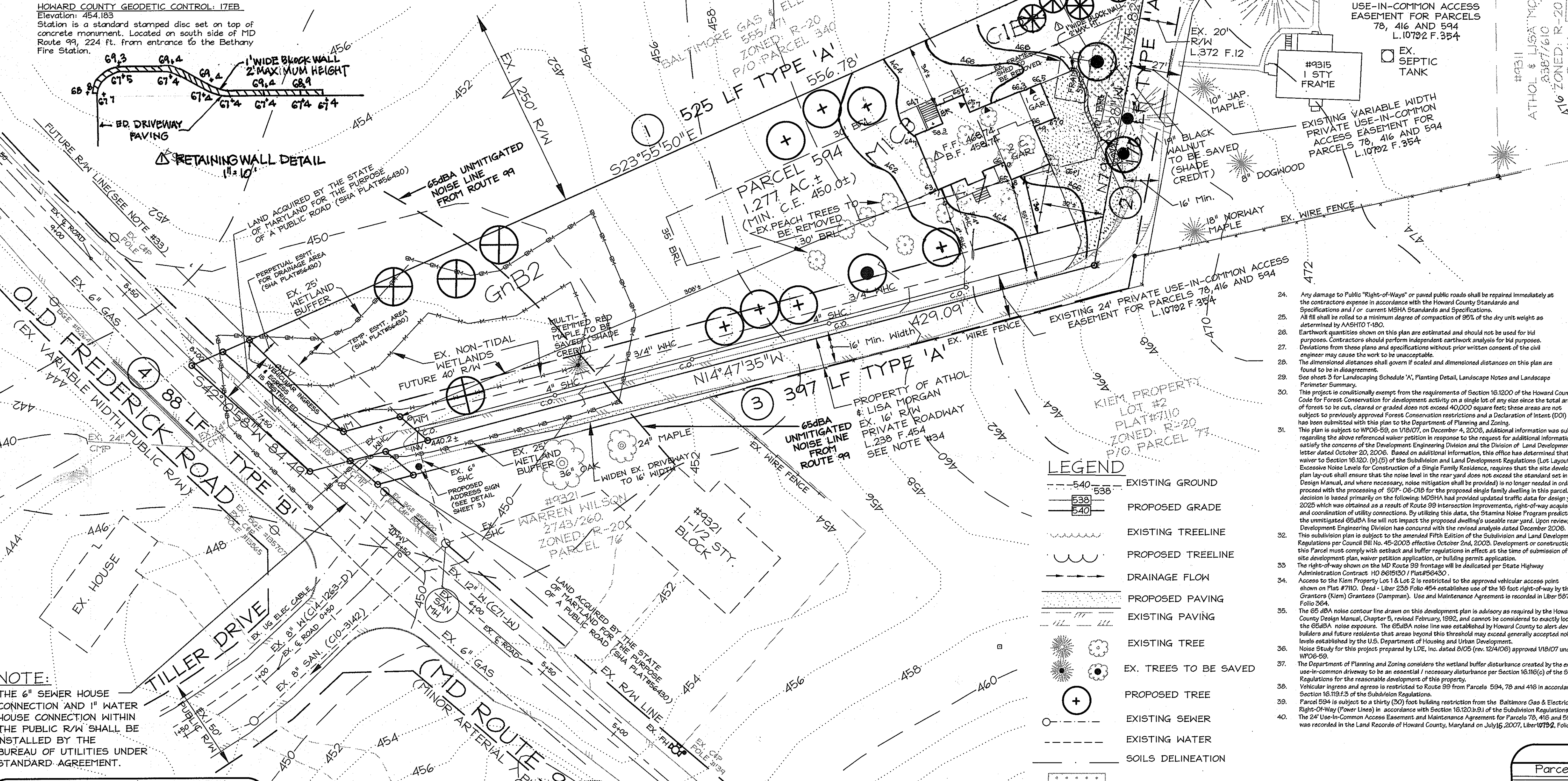
Scale: 1" = 2000'

GENERAL NOTES:

- The subject property is zoned R-20 per the 2/2/04 Comprehensive Zoning Plan and Comp-Lite Zoning Amendments dated 7/28/08.
- All construction shall be in accordance with the latest Standards and Specifications of Howard County Design Manual Vol. IV and current MSHA Standards & Specifications.
- Project Background:
 - Location: Ellicott City
 - Tax Map: Map 17
 - Grid: 17
 - Election District: 2nd
 - Current Parcel Reference: L.985 F.690

- The boundary shown hereon is based on a field run boundary by LDE, Inc. dated April, 2003.
- The topography shown hereon was field run by LDE, Inc. in June, 2004.
- Horizontal and Vertical Datum are related to the Maryland State Plane Coordinate System (NAD 83) as projected from Howard County Station No. 17E & 17B.
- Any damage caused by the contractor to existing utility right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractor's expense.
- The existing utilities shown hereon are located from field surveys and construction drawings of the contractor. The contractor shall locate existing utilities to his own satisfaction and in full advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service. Any damage incurred to utilities or existing features due to contractor's operation shall be repaired immediately at the contractor's expense.
- There may be additional utilities not shown on these plans. The engineer assumes no responsibility for utility locations not shown and it shall be the responsibility of the contractor to verify the locations of all existing utilities within the limits of construction and notify the engineer of any discrepancies, prior to the start of construction.
- Site Analysis Data:
 - Total Project Area: 1.277 Acres
 - Area of Plan Submission: 1.277 Acres
 - Limit of Disturbed Area: 0.47 Acres
 - Present Zoning Designation: R-20
 - Proposed Site and Structure Use: One (1) SFD house
 - Building coverage of site: 2475 sq. ft. (0.06 Ac.), 4.4% of site area
 - Applicable SEZ File Reference: N/A

- The wetlands shown on this site are per a field investigation by LDE, Inc. dated June, 2004.
- In accordance with Section 12B of the Howard County Zoning Regulations, by windows, chimneys or exterior stairways not more than 16 feet in width may project not more than 4 feet into any setback, porch or deck, open or enclosed may project not more than 10 feet into the front or rear yard setback.
- The existing private common driveway will provide vehicular access to Parcels 594, 78 & 416.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscaping Manual.
- Landscaping for Parcel 594 is provided in accordance with a certified landscape plan on file with this SDP. In accordance with Section 16.124 of the Howard County Code and Landscaping Manual, Financial Surety for the required landscaping shall be posted as part of the building grading permit for (17) new shade trees in the amount of \$9100.00.
- There are no streams, stream buffers, steep slopes or 100 year floodplain within the boundary of this Parcel.
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-251-7777 at least forty-eight (48) hours prior to any excavation work.
- The existing driveway shall be upgraded to the use-in-common driveway standards as required by the Howard County Design Manual prior to residential occupancy for any new dwellings to insure safe access for fire and emergency vehicles per the following minimum requirements:
 - Width: 12' (6' serving more than one residence);
 - Surface: 6" of compacted crusher run base with tar and chip coating (1-1/2" min.);
 - Geometry: Max. 14% grade, max. 10% grade change minimum 45 ft. radius;
 - Structure: Culvert (bridged) capable of supporting 25 gross tons (425 loading);
 - Drainage Elements: capable of safely passing 100 year flood with no more than 1 ft. depth over driveway surface;
 - Maintenance: sufficient to insure weather use.
- Public water connection is provided for this Parcel via Water Contract No. 7-W. Public sewer connection is provided for this Parcel via Sewer Contract No. 10-2042. The proposed extensions within the public right-of-way shall be constructed by the Bureau of Utilities under standard agreement.
- Stormwater Management for the proposed improvements is exempt since new impervious area is less than 5000 square feet.



NOTE:
THE 6" SEWER HOUSE CONNECTION AND 1" WATER HOUSE CONNECTION WITHIN THE PUBLIC R/W SHALL BE INSTALLED BY THE BUREAU OF UTILITIES UNDER STANDARD AGREEMENT.

DEVELOPER'S / BUILDER'S CERTIFICATION
I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I further certify that upon completion, a letter of notice, accompanied by an executed one year guarantee of plant materials, and a copy of this plan will be submitted to the Department of Planning and Zoning.

Signature of Developer/Builder: [Signature] DATE: 7-19-07

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19184, EXPIRATION DATE: 06/30/09.

Signature: Bruce D. Burton DATE: 8/7/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director: [Signature] DATE: 8/3/07
Chief, Division of Land Development: [Signature] DATE: 8/9/07
Chief, Development Engineering Division: [Signature] DATE: 7/21/07

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
Natural Resource Conservation Service: [Signature] DATE: 7/24/07
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Howard Soil Conservation District: [Signature] DATE: 7/24/07

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE DESIGN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THE PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Professional Engineer: [Signature] DATE: 4/7/07

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Signature of Developer: [Signature] DATE: 7/19/07

STATE OF MARYLAND PROFESSIONAL ENGINEER
[Seal of Professional Engineer]

LEGEND

[Symbol]	EXISTING GROUND
[Symbol]	PROPOSED GRADE
[Symbol]	EXISTING TREELINE
[Symbol]	PROPOSED TREELINE
[Symbol]	DRAINAGE FLOW
[Symbol]	PROPOSED PAVING
[Symbol]	EXISTING PAVING
[Symbol]	EXISTING TREE
[Symbol]	EX. TREES TO BE SAVED
[Symbol]	PROPOSED TREE
[Symbol]	EXISTING SEWER
[Symbol]	EXISTING WATER
[Symbol]	SOILS DELINEATION
[Symbol]	EX. PAVEMENT TO BE REMOVED
[Symbol]	EX. NON-TIDAL WETLANDS
[Symbol]	25' WETLAND BUFFER
[Symbol]	DWELLING ENTRANCE

SOILS LEGEND:

SYMBOL	NAME	SLOPE/CHARACTERISTICS
G1A	Glenelg Loam	0 to 3% slopes
G1B2	Glenelg Loam	3 to 8 % slopes-moderately eroded
G1B3	Glenville Silt Loam	3 to 8% slopes-moderately eroded
M1C3	Manor Loam	8 to 15% slopes-moderately eroded

Taken from Soils Map# 10

ADDRESS CHART

Parcel No.	Street Address
594	9305 Old Frederick Road (MD Rte. 99)

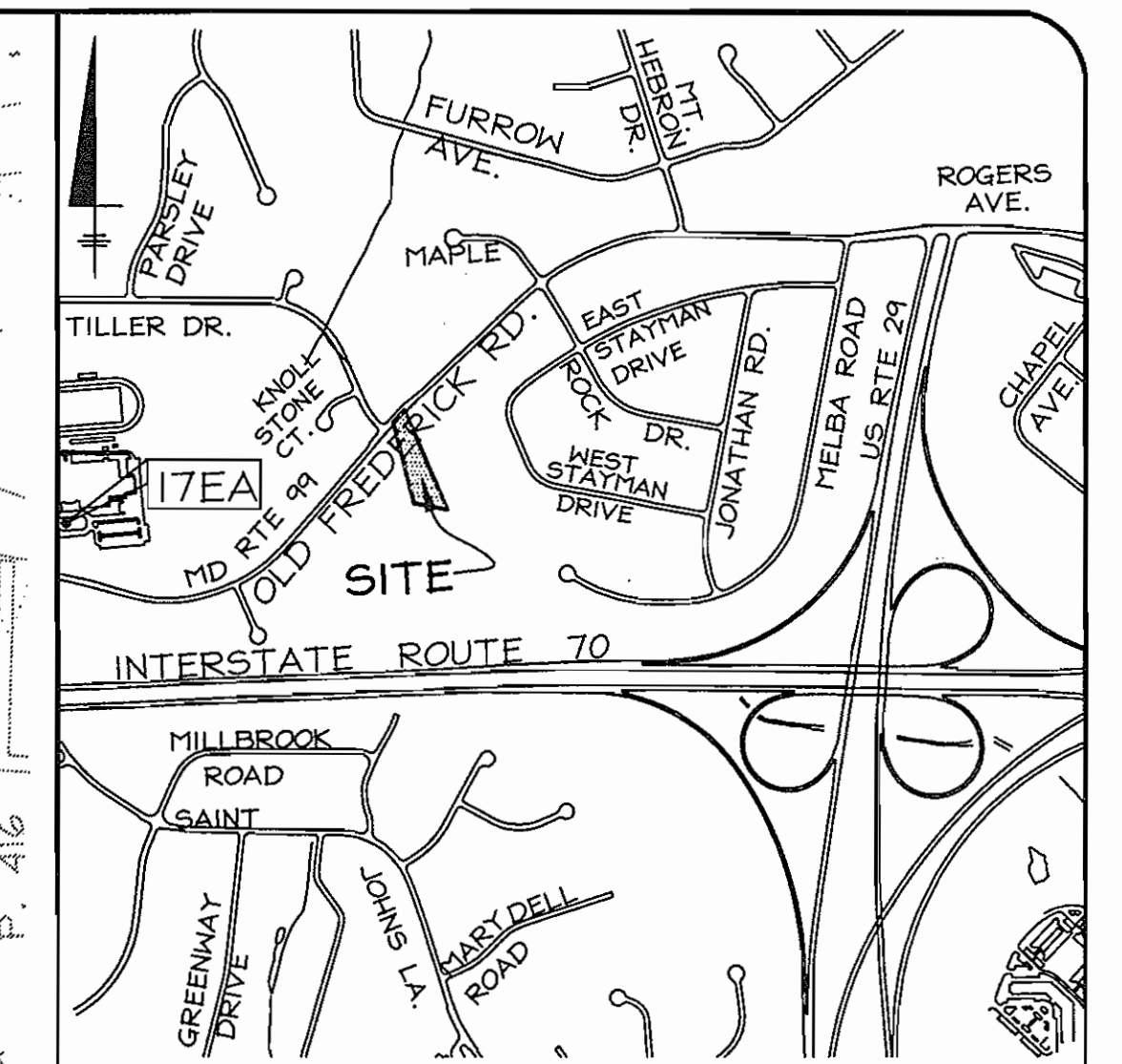
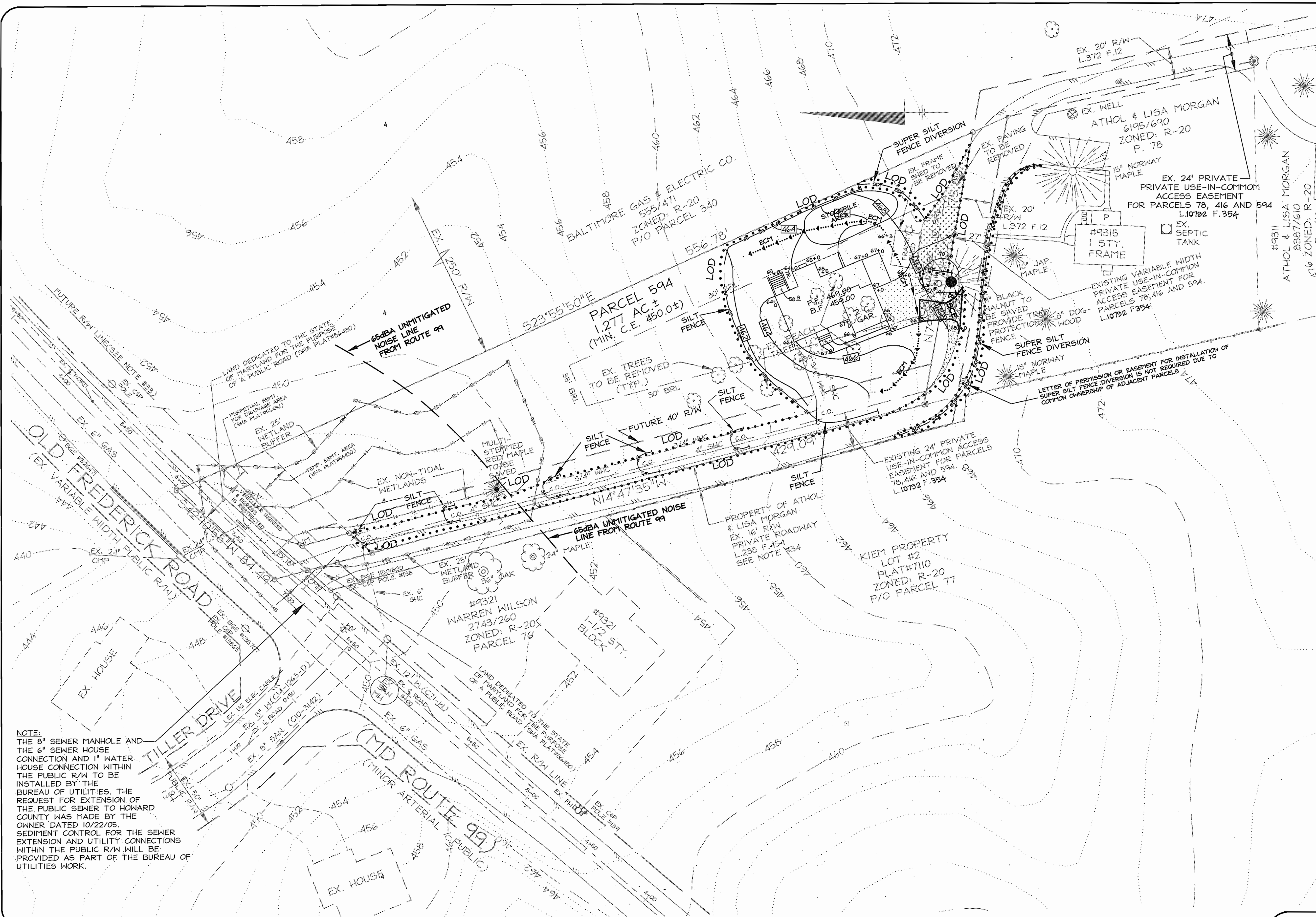
Subdivision Name:	Property of Athol & Lisa Morgan	Section/Area:	N/A	Parcel No.:	594
Plot Ref. L.985 F.690	Grid No. 17	Zoning:	R-20	Tax Map No.:	17
Water Code:	H03	Election District:	2nd	Census Tract:	602100
		Sewer Code:	1455800		

LDE Inc.
Engineers, Surveyors, Planners
9230 Runney Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

DESIGNED	BDB	SITE DEVELOPMENT PLAN	SCALE	1" = 30'
DRAWN	KBW	PROPERTY OF ATHOL & LISA MORGAN	DRAWING	1 OF 3
CHECKED	BDB	TAX MAP No. 17 - GRID No. 17 - PARCEL 594	JOB NO.	02-023.3
DATE	7/2007	2nd ELECTION DISTRICT - HOWARD COUNTY, MD	FILE NO.	SDP06-018
		Previous Submittals: WFO6-59		
		BUILDER: ARTISAN FINE HOMES		
		P.O. Box 360		
		Parkton, MD 21120		
		301-881-1345		

REVISIONS

No.	Date	Description
1	8/21/2007	LDE REVISE HOUSE, LOT GRADING, DRIVEWAY, ADD RETAINING WALL



VICINITY MAP
SCALE: 1" = 2000'

LEGEND

- 538 --- 540 --- EXISTING GROUND
- 538 --- 540 --- PROPOSED GRADE
- --- EXISTING TREELINE
- --- PROPOSED TREELINE
- --- DRAINAGE FLOW
- --- PROPOSED PAVING
- --- EXISTING PAVING
- --- EXISTING TREE
- --- EXIST. TREE TO BE SAVED
- --- EXISTING SEWER
- --- EXISTING WATER
- --- SOILS DELINEATION
- LOD --- LIMIT OF DISTURBANCE
- SF --- SF --- SILT FENCE
- SSF --- SUPER SILT FENCE
- EC1 --- EROSION CONTROL MATTING
- (SCS) --- STABILIZED CONSTRUCTION ENTRANCE
- TPF --- TPF --- TREE PROTECTION FENCE
- SDF --- SDF --- SUPER SILT FENCE DIVERSION

NOTE:
THE 8" SEWER MANHOLE AND THE 6" SEWER HOUSE CONNECTION AND 1" WATER HOUSE CONNECTION WITHIN THE PUBLIC R/W TO BE INSTALLED BY THE BUREAU OF UTILITIES. THE REQUEST FOR EXTENSION OF THE PUBLIC SEWER TO HOWARD COUNTY WAS MADE BY THE OWNER DATED 10/22/05. SEDIMENT CONTROL FOR THE SEWER EXTENSION AND UTILITY CONNECTIONS WITHIN THE PUBLIC R/W WILL BE PROVIDED AS PART OF THE BUREAU OF UTILITIES WORK.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR: *M. A. G. G. G.* DATE: 8/1/07
 CHIEF, DIVISION OF LAND DEVELOPMENT: *W. S. S. S.* DATE: 8/29/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: *M. S. S. S.* DATE: 7/27/07

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
 SIGNATURE OF ENGINEER: *Jim Morgan* DATE: 7/24/07
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF DEVELOPER: *John R. DeLeon* DATE: 7/24/07

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN AND THAT ANY 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 SIGNATURE OF ENGINEER: *Bruce D. Burton* DATE: 7/19/07
DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 SIGNATURE OF DEVELOPER: *John R. DeLeon* DATE: 7/27/07



REVISIONS		
No.	Date	Description

LDE Inc.
 Engineers, Surveyors, Planners
 9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045
 (410) 715-1070 - (301) 596-3424 - FAX (410) 715-9540

DESIGNED: BDB	SEDIMENT & EROSION CONTROL PLAN PROPERTY OF ATHOL & LISA MORGAN LIBER 6195 FOLIO 690 TAX MAP No. 17 - GRID No. 17 - PARCEL 594 2nd ELECTION DISTRICT - HOWARD COUNTY, MD Previous Submittals: WFO6-59	SCALE: 1" = 30'
DRAWN: KBW		DRAWING: 2 OF 3
CHECKED: BDB		JOB No.: 02-023.3
DATE: 7/2007		FILE No.: SDP06-018
BUILDER: ARTISAN FINE HOMES P.O. Box 360 Parkton, MD 21120 301-881-1345		

STANDARD SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction...
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL'...
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 14 calendar days for all perimeter stabilization structures...
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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 (Section 6) for permanent seeding, mow, temporary seeding, and mulching. Temporary stabilization with mulch cover can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
Total Area of Site: 1277 Acres
Area Disturbed: 0.47 Acres
Area to be roofed or paved: 0.05 Acres
Area to be vegetatively stabilized: 0.35 Acres
Total Cut: 315 Cu. Yds.
Offset waste area location: N/A

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:
1) PREFERRED -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding.
2) ACCEPTABLE -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding.

- SEEDING -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs per acre (.05 lbs/1000sq. ft.) of weeping lovegrass.
MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of untreated small grain straw immediately after seeding.
MAINTENANCE -- Inspect all seeding areas and make needed repairs, replacements and seedbed preparation.

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/1000sq. ft.).
SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs/1000sq. ft.).
MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of untreated small grain straw immediately after seeding.

HOWARD SOIL CONSERVATION DISTRICT PERIMETER LANDSCAPE EDGE

Table with 5 columns: Category, Adjacent to Perimeter Properties, Adjacent to Roadways, Total. Rows include Landscape Type, Linear Feet of Roadway Frontage / Perimeter, Credit for Existing Vegetation, Credit for Wall, Fence or Berm, Number of Plants Required, Number of Plants Provided.

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director: Mark A. Lytle
Chief, Division of Land Development: Katsuhiko Inoue

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
ENGINEER'S CERTIFICATE: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE DESIGN AND THAT MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL CONSERVATION DISTRICT.
Developer: Bruce D. Burden

SIGN SPECIFICATIONS

- 1. The sign size shall be 12" x 18".
2. The sign material shall be .080 gauge thickness anodized aluminum.
3. The sign shall have a green background with 3" high white reflective numbers and arrow with a white reflective border.
4. Where a private road name is in use or part of a private Homeowner's Articles of Incorporation agreement the sign size will be enlarged to accommodate the necessary lettering but remain proportional to the above design limits.
5. The sign will be installed within the common driveway easement area as noted on the final plan.
6. Address number identification signs are to be provided under the tenants of the Homeowner's Association Incorporation or a Property Management Company for installation and maintenance in accordance with the Department of Planning and Zoning Address Numbering System and per Section 3.503(a) of the Howard County Code - Public Signs.
7. Compliance regarding the installation of the new address number directional signs will be enforced by the Department of Inspections, Licenses and Permits at the time of final approval for issuance of the Use and Occupancy permits.

HOWARD SOIL CONSERVATION DISTRICT PERIMETER LANDSCAPE EDGE

Table with 5 columns: Category, Adjacent to Perimeter Properties, Adjacent to Roadways, Total. Rows include Landscape Type, Linear Feet of Roadway Frontage / Perimeter, Credit for Existing Vegetation, Credit for Wall, Fence or Berm, Number of Plants Required, Number of Plants Provided.

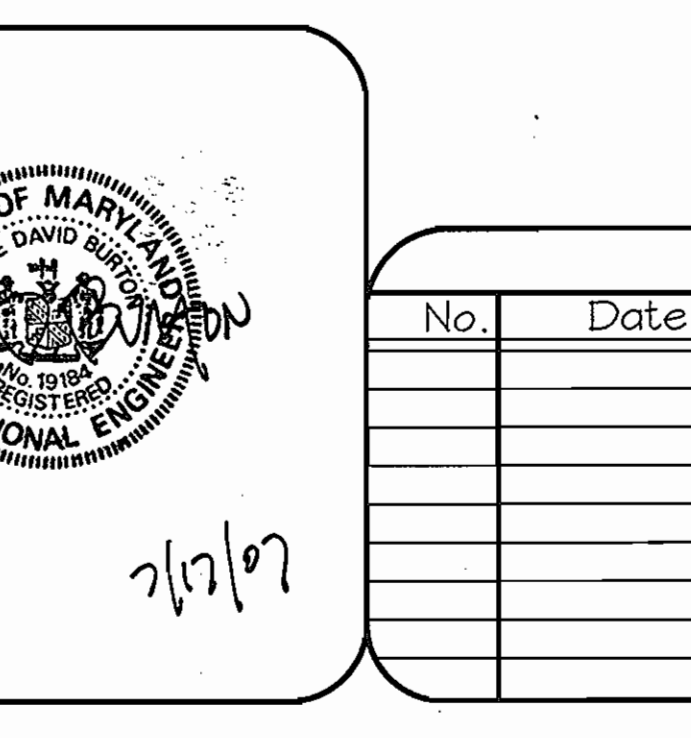
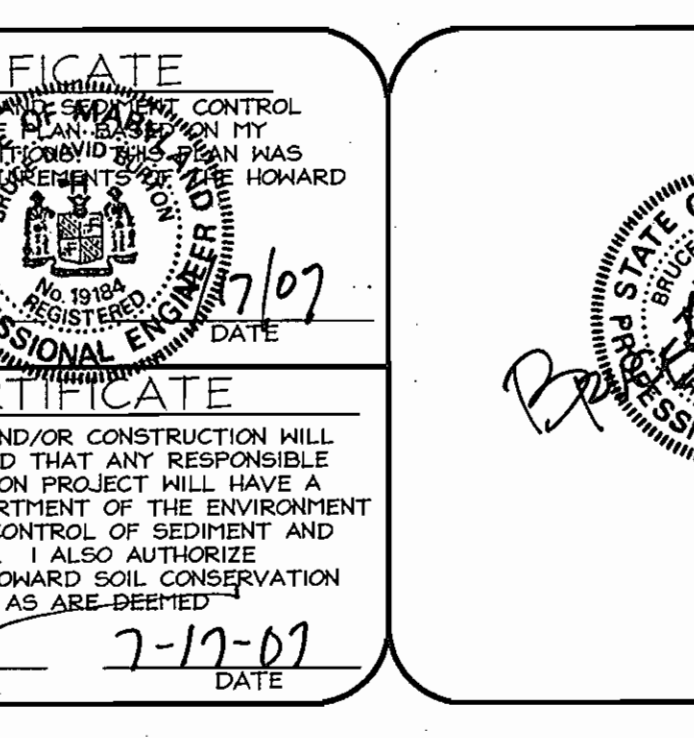
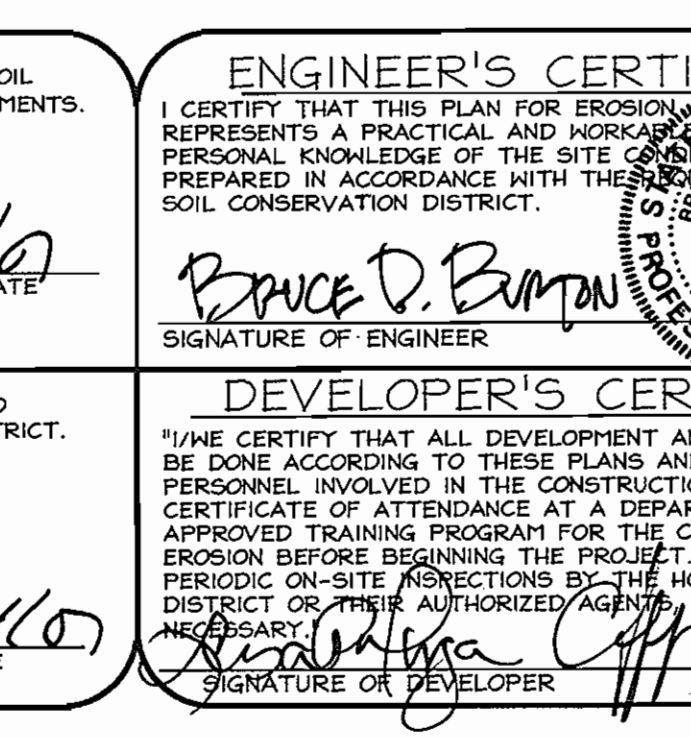
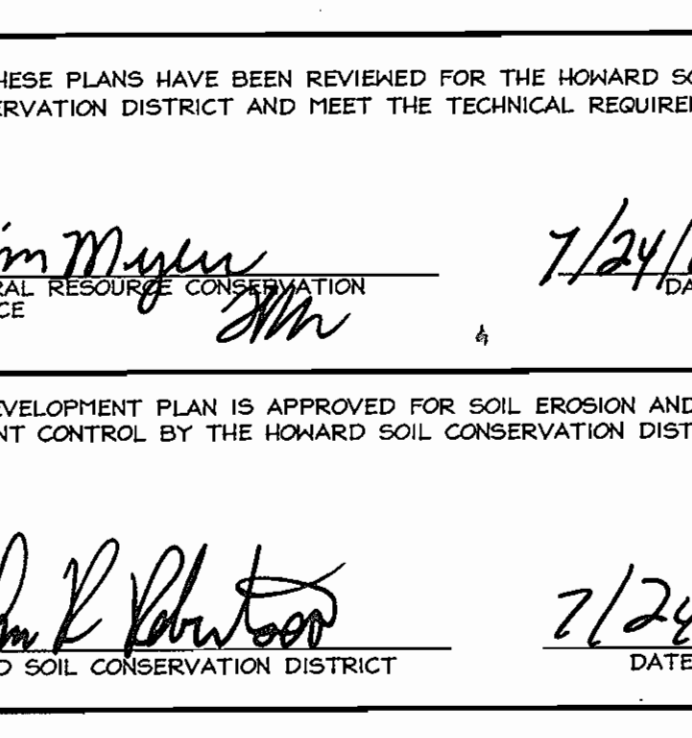
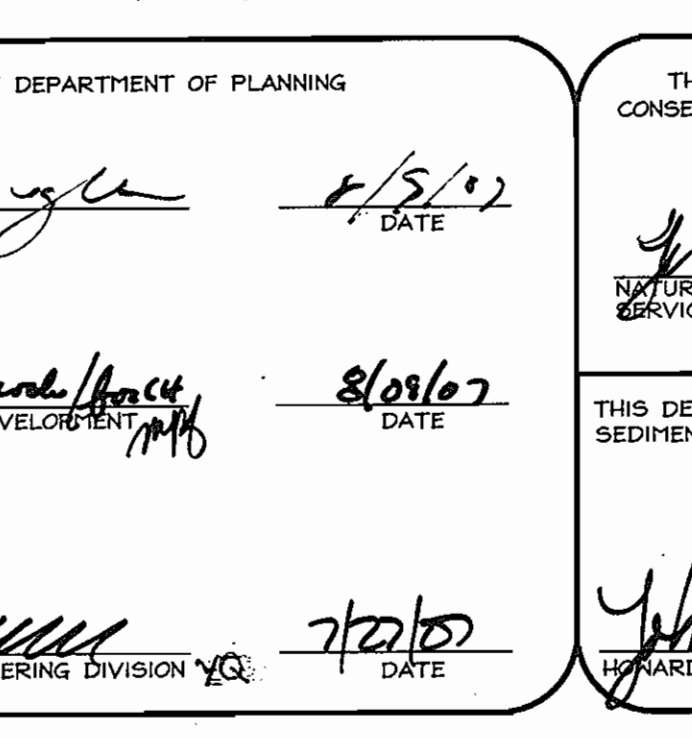
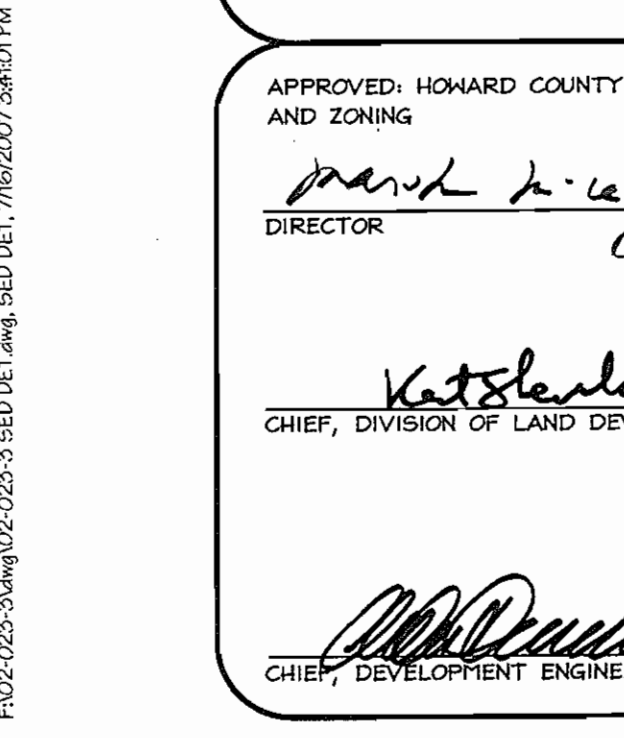
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Developer: Bruce D. Burden

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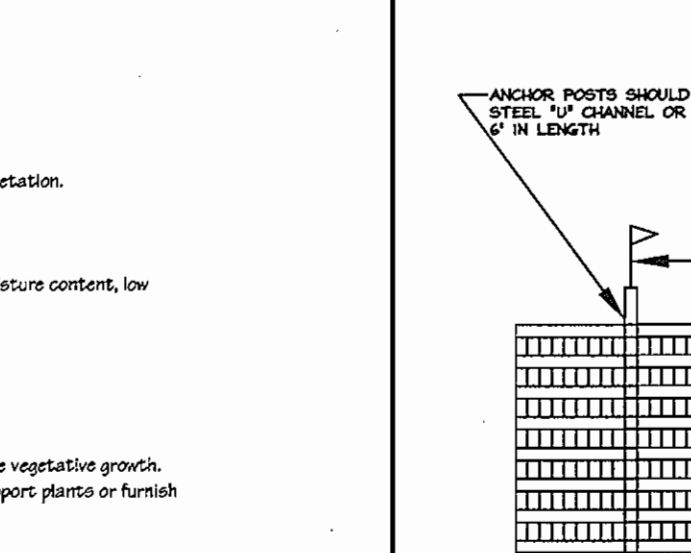
LANDSCAPE NOTES:

- 1. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Howard County Landscape Manual.
2. The Owner/Developer is responsible for planting of all material required to meet the standards established by the Howard County Landscape Manual.
3. Financial Surety for the required landscaping will be posted with the builder's grading permit in the amount of \$5100.00.
4. The Owner, Tenant and/or their agents shall be responsible for maintenance of the required landscaping, plants materials, berms, fences and walls.
5. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations.
6. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
7. All plant materials shall conform to the American Associated Nurserymen's publication, American Nursery Stock.
8. At the time of installation, all shrubs and other plantings herewith listed and approved for this site shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning.

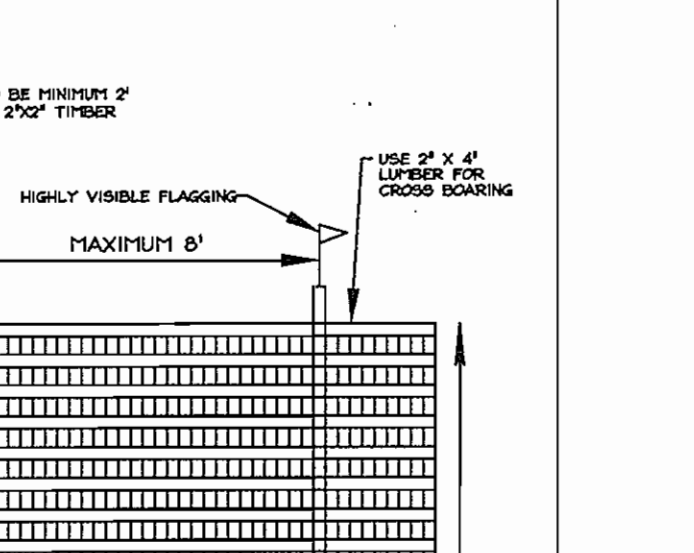
PLANT LIST CHART

Table with 5 columns: SYMB, QUANTITY, COMMON NAME, BOTANICAL NAME, SIZE, REMARKS. Lists plants like October Glory, Red Oak, Bloodgood, and Eastern White Pine.

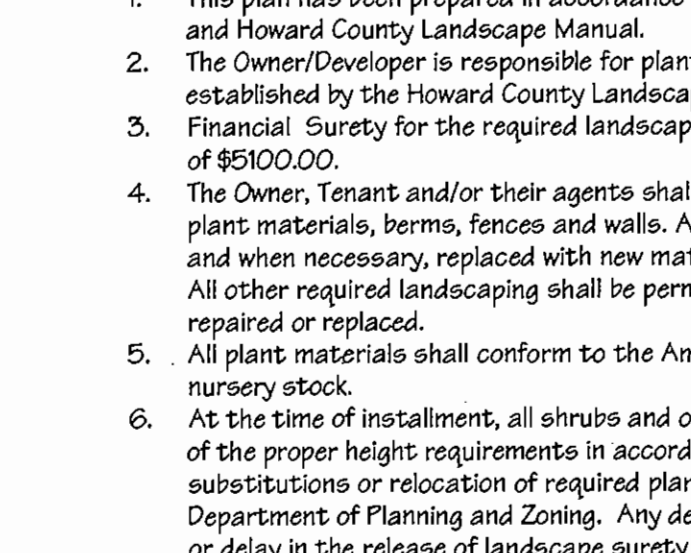
DETAIL - SUPER DIVERSION FENCE



DETAIL 22 - SILT FENCE



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



DETAIL 33 - SUPER SILT FENCE

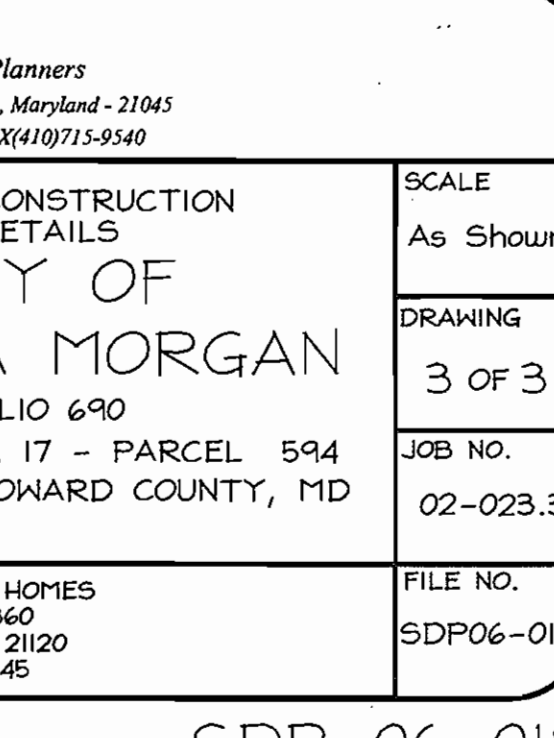
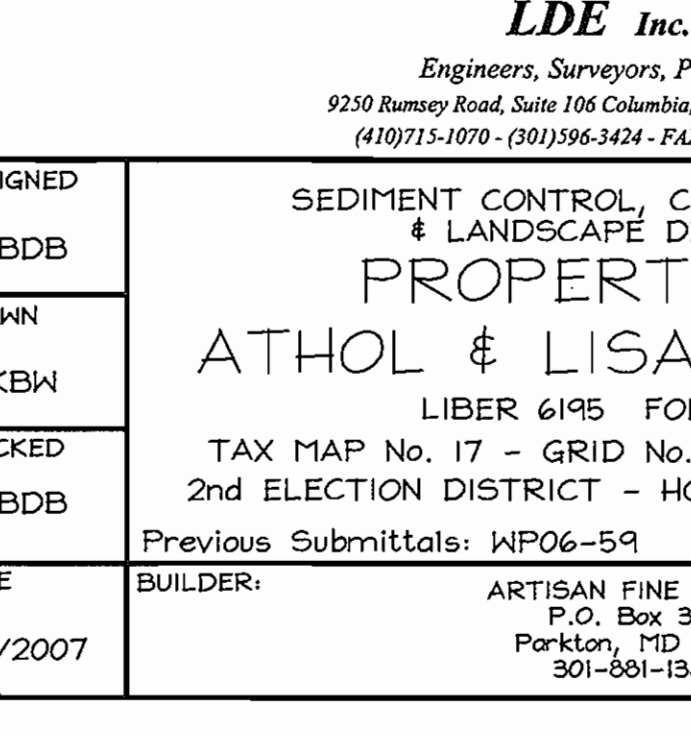
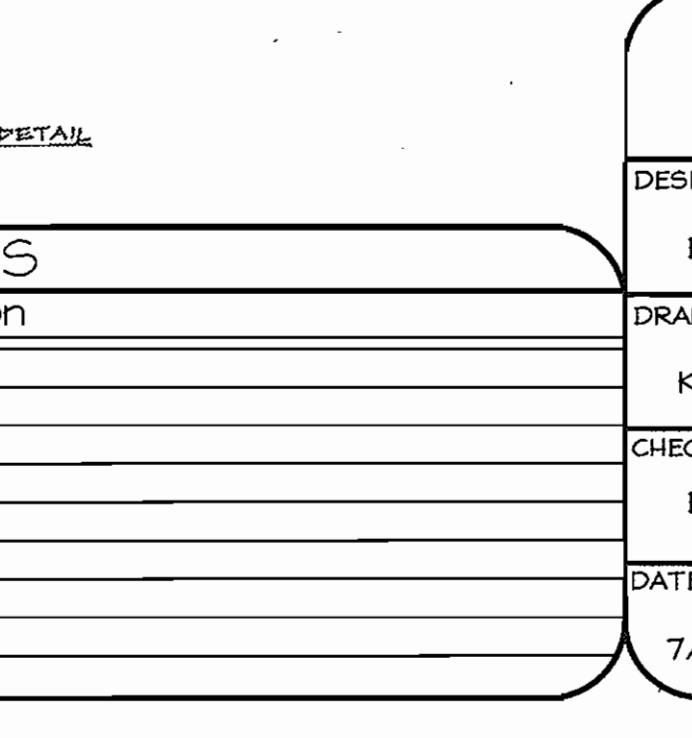
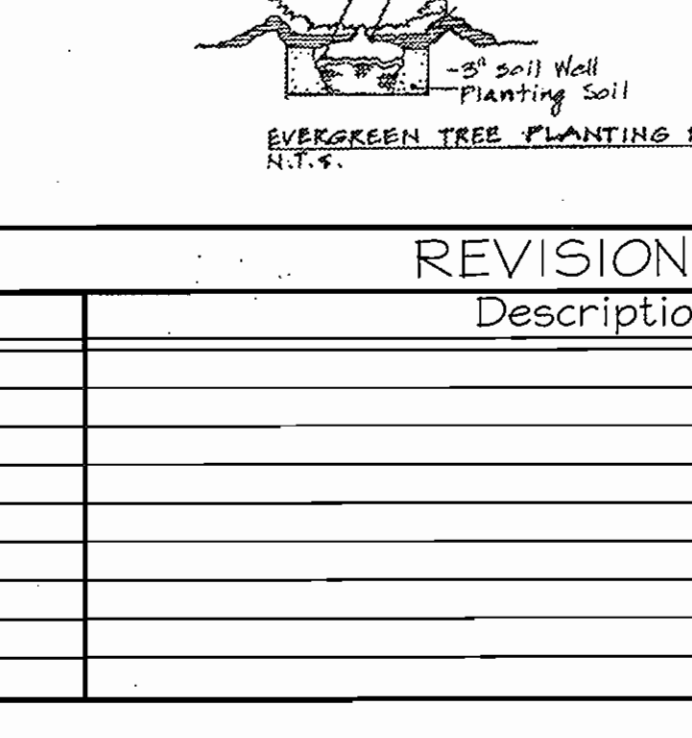
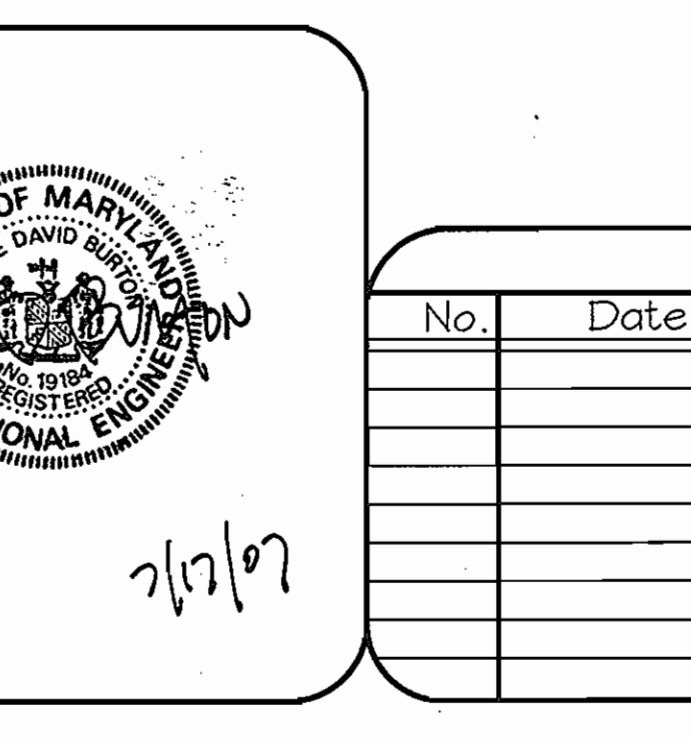
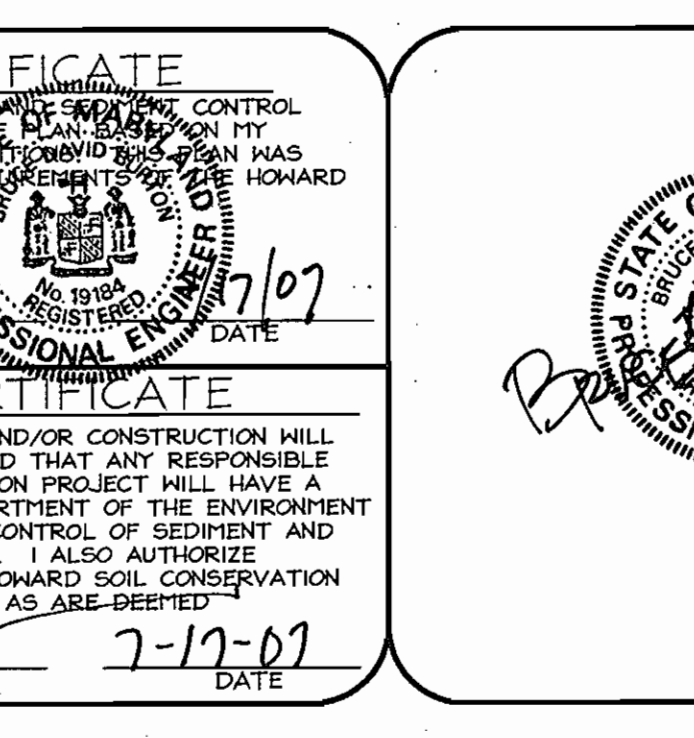
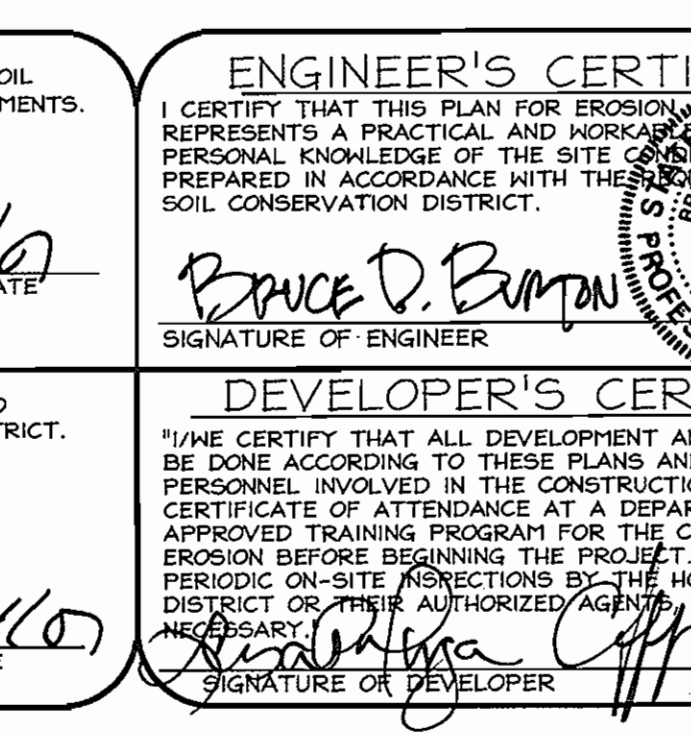
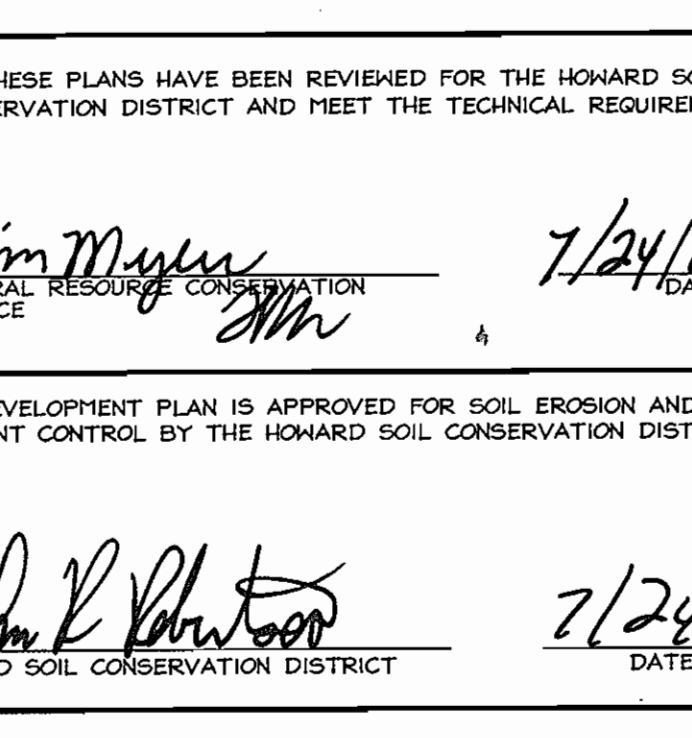
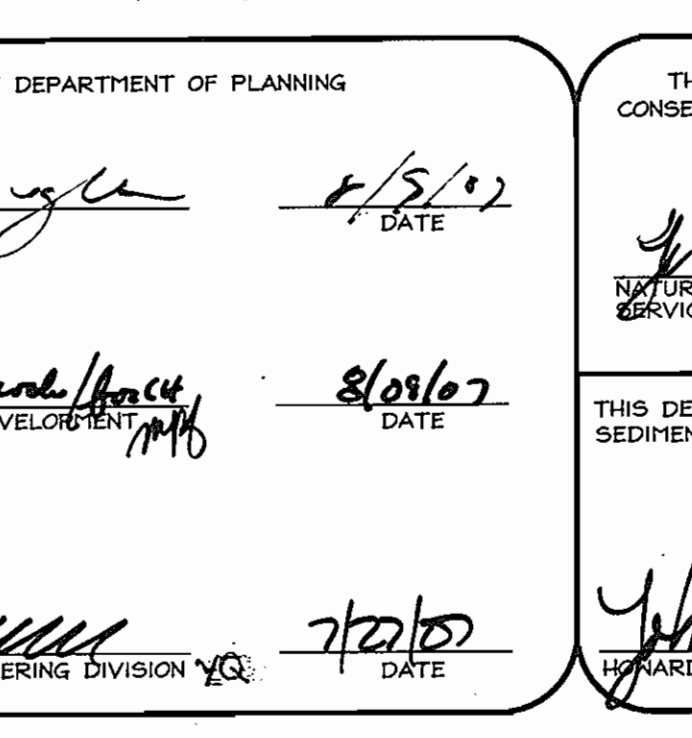
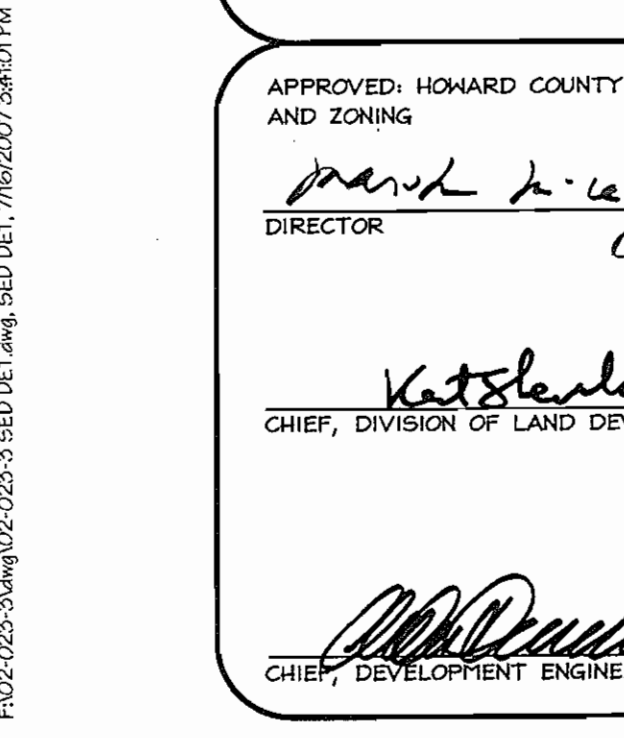
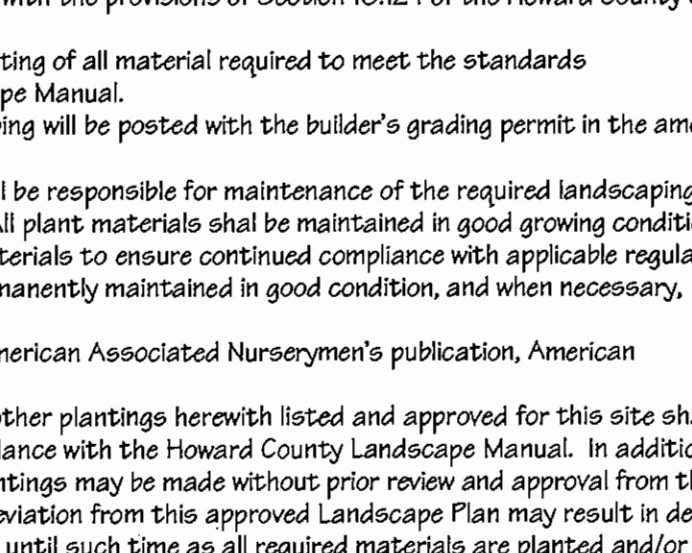


FIGURE 22-3 (1/16/02)

FIGURE 24-1 (1/16/02)

FIGURE 33-1 (1/16/02)

FIGURE 24-2 (1/16/02)

FIGURE 33-2 (1/16/02)

FIGURE 33-3 (1/16/02)

FIGURE 33-4 (1/16/02)

FIGURE 33-5 (1/16/02)

FIGURE 33-6 (1/16/02)

FIGURE 33-7 (1/16/02)

FIGURE 33-8 (1/16/02)

FIGURE 33-9 (1/16/02)

FIGURE 33-10 (1/16/02)

FIGURE 33-11 (1/16/02)

FIGURE 33-12 (1/16/02)

FIGURE 33-13 (1/16/02)

FIGURE 33-14 (1/16/02)

FIGURE 33-15 (1/16/02)

FIGURE 33-16 (1/16/02)

FIGURE 33-17 (1/16/02)

FIGURE 33-18 (1/16/02)