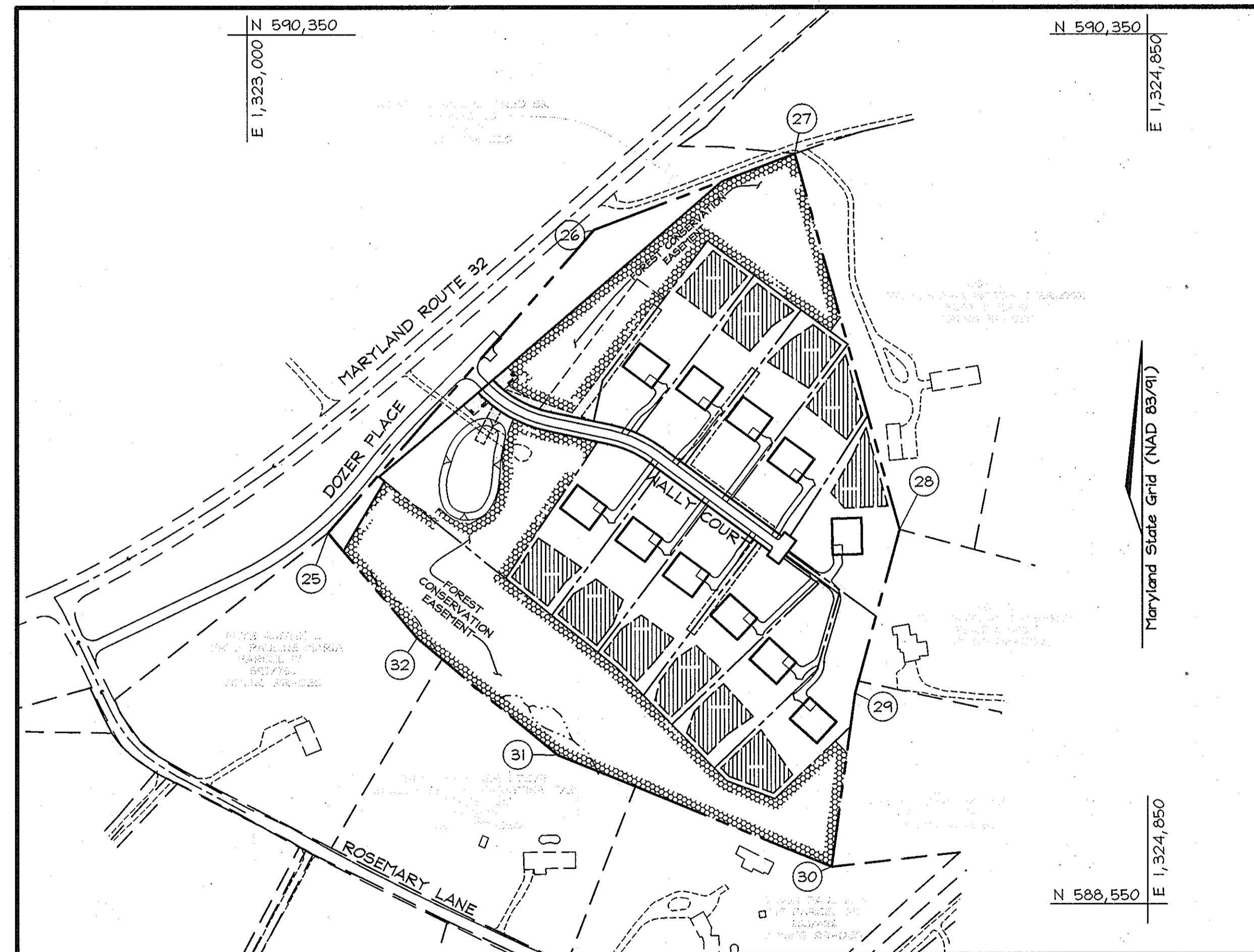


GENERAL NOTES

- This plan is subject to the Amended Fifth Edition of the Subdivision and Land Development Regulations per Council Bill No. 60-2001 and the Amended Zoning Regulations per Council Bill No. 75-2003. Development or construction on this property must comply with setback and buffer regulations in effect at the time of submission of the site development plan, waiver petition application or building/grading permit applications.
- Subject property zoned RR-DEO per 02/02/04 Comprehensive Zoning Plan.
- Private water and sewer will be used within this site.
- Total area of property = 23.66 ac.±
- Area of proposed public R/W: Howard County Dedication 0.70 ac.±
SHA Dedication 1.07 ac.±
Total Right of Way dedication = 1.77 ac.
- Number of proposed buildable lots: 11
Area of proposed buildable lots: 12.402ac.±
- Number of proposed non-buildable preservation parcels: 3
Area of proposed non-buildable preservation parcels: 9.62 ac.±
- Density calculations:
a.) Number of lots based on own density:
 $23.66ac / 4.25 = 5.56$, therefore 5 units
b.) Net Tract Area:
 $23.66ac - 0.94ac$ (slopes 25% or greater) = 22.72ac
c.) Maximum number of lots allowed based on DEO option:
 $22.72ac / 2 = 11.36$ = 11 units
d.) Total number of DEO units required:
 $11 - 5 = 6$ units
- The lots shown herein comply with the minimum ownership, width and lot area as required by the Maryland State Department of the Environment.
- Existing utilities and topography based on Field Run Topographic Survey prepared by FSH Associates on or about June, 2005.
- ██████ This area designates a private sewage easement of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
- All wells and septic fields within 100' of property's boundary have been shown where pertinent.
- The septic fields are located on soil types G1C2, G1B2, M1B2, M1C2, M1C3, M1D2, M1D3 and M1E as per the soil survey of Howard County, Soils Map #14.
- All percolation test holes and their elevations have been field located by FSH Associates registered land surveyors. On-site topography and the existing utilities along MD Rt. 32 are based on a Field Run Topographic Survey prepared by FSH Associates in July, 2005 with two foot contours.
- Off-site topography based on Howard County 1993 Aerial Topographic Surveys with five foot contours.
- Groundwater appropriations permit # H020066012(1).
- The existing well and septic system on the property have been properly abandoned as part of the demolition of the existing Mary Selby Burgess house, HO-646.
- A.P.F.O. traffic study prepared by Street Traffic Studies, on March 3rd 2006.
- Wetlands delineation and report prepared by McCarthy and Associates. No wetlands were found on-site.
- The project is not within the metropolitan district.
- The project is in conformance with the latest Howard County Standards unless waivers have been approved.
- The coordinates shown herein are based upon the Howard County Geodetic Control which is based on the Maryland State Plane Coordinate system. Howard County monument numbers 22AA and 22BB were used for this project.
- Noise impact analysis prepared by the Wilson T. Ballard Company in March 2006 and revised on September 1, 2006.
- The landscape and forest conservation surties will be a part of the Developer's Agreement.
- Stormwater Management Channel Protection Volume (CP_v) and Water Quality Volume (WQ_v) has been provided within the proposed Micropool Extended Facility for Drainage Area 1 only. CP_v and WQ_v are not required for drainage areas 2-5. The proposed Micropool Extended Detention Facility will be privately owned with joint maintenance by HOA and Howard County. Stormwater Recharge Volume has been provided through the use of the grass channel credit using the Recharge Percent Area Method. Additionally, the Overbank Flood Protection Volume (OP_v) and the Extreme Flood Volume (EF_v) stormwater management criteria are not required for this site.
- There is no floodplain on this site.
- The Geotechnical Report was prepared by Herbst/Benson and Associates on March, 2006.
- All wells to be drilled prior to submittal of record plat for signature. It is the developers responsibility to schedule the well drilling prior to final plat submission. It will not be considered "government delay" if the well drilling holds up the health department signature of the record plat.
- The Stormwater Management (SWM) system shown on these plans is an approximation of the size and design. It is understood that at the Final Plan stage, the actual design will reflect a riser/barrel principal release structure.

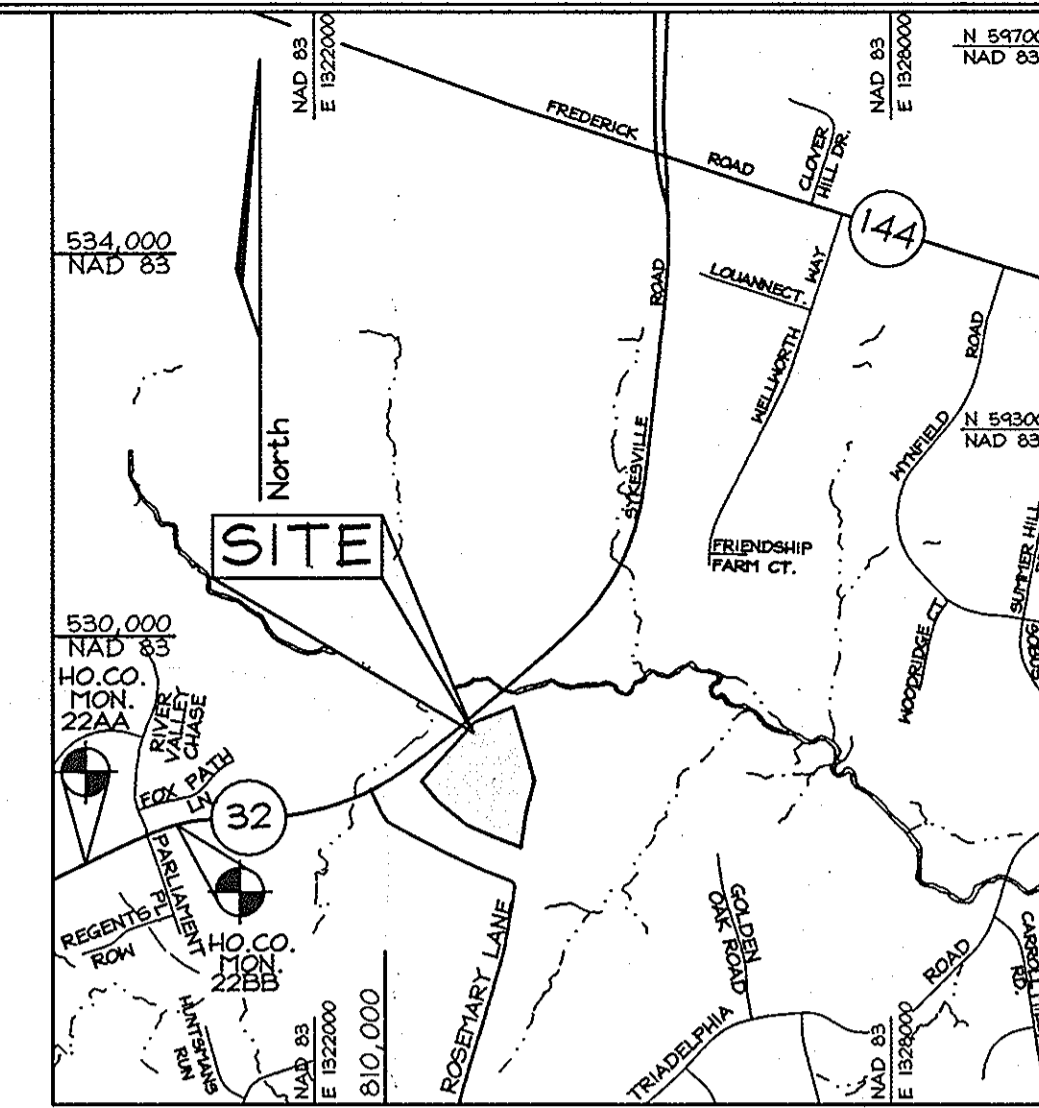
PRELIMINARY EQUIVALENT SKETCH PLAN & PERCOLATION CERTIFICATION PLAN DAVIS PROPERTY LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C' HOWARD COUNTY, MARYLAND



LOCATION MAP
SCALE: 1"=200'

LEGEND

- Existing Contour:
- Proposed Contour:
- Direction of Flow:
- Existing Spot Elevation:
- Proposed Spot Elevation:
- Existing Trees:
- Proposed Septic Easement:
- Existing Septic Easement:
- 15-24.99% Slopes:
- 25-50% Slopes:
- Wetlands:
- Use-In-Common Access Easement:
- Existing Perc Test (Passed):
- Existing Perc Test (Failed):
- Existing Utility Pole:



VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS

| | | | |
|-----------|----------------|------------------|---------------------|
| Sta. 22AA | N 587,502.7338 | E 1,317,847.9412 | El.: 569.023 (feet) |
| Sta. 22BB | N 588,791.5414 | E 1,320,242.1989 | El.: 538.281 (feet) |

COORDINATE TABLE

| POINT | NORTHING | EASTING |
|-------|--------------|----------------|
| 25 | 589,319.7549 | 1,323,165.3804 |
| 26 | 589,946.9007 | 1,323,712.5208 |
| 27 | 590,104.0119 | 1,324,125.3364 |
| 28 | 589,325.4356 | 1,324,340.2789 |
| 29 | 588,986.1357 | 1,324,248.7058 |
| 30 | 588,627.2897 | 1,324,200.2704 |
| 31 | 588,858.6146 | 1,323,637.0376 |
| 32 | 589,101.2083 | 1,323,348.0302 |

SHEET INDEX

| DESCRIPTION | SHEET No. |
|---|-----------|
| Cover Sheet | 1 of 8 |
| Preliminary Equivalent Sketch Plan | 2 of 8 |
| Preliminary Equivalent Sketch Plan | 3 of 8 |
| Preliminary Grading, Landscaping, Sediment Control and Soils Plan | 4 of 8 |
| Preliminary Grading, Landscaping, Sediment Control and Soils Plan | 5 of 8 |
| Preliminary Forest Conservation Plan | 6 of 8 |
| Preliminary Forest Conservation Plan | 7 of 8 |
| Preliminary Forest Conservation Plan | 8 of 8 |

CENTERLINE ROAD CURVE DATA WALLY COURT

| CURVE No. | RADIUS | LENGTH | DELTA | TANGENT | CHORD BEARING |
|-----------|---------|---------|-----------|---------|---------------------|
| C1 | 250.00' | 141.46' | 32°25'09" | 72.68' | S61°37'09"E 139.58' |
| C2 | 250.00' | 107.02' | 24°31'38" | 54.34' | N65°33'54"W 106.21' |

CENTERLINE ROAD CURVE DATA DOZER PLACE

| CURVE No. | RADIUS | LENGTH | DELTA | TANGENT | CHORD BEARING |
|-----------|---------|---------|-----------|---------|---------------------|
| C3 | 750.00' | 332.40' | 25°23'36" | 168.97' | N51°28'01"E 329.68' |
| C4 | 470.66' | 114.34' | 6°45'08" | 57.26' | S41°34'58"W 114.32' |

ROAD CLASSIFICATION

| ROAD NAME | CLASSIFICATION | R/W |
|-------------|---------------------|-----|
| Wally Court | Public Access Place | 40' |
| Dozer Place | Public Access Place | 40' |

MINIMUM LOT SIZE CHART

| LOT NUMBER | GROSS AREA (sf) | PIPESTEM AREA (sf) | MINIMUM LOT SIZE |
|------------|-----------------|--------------------|------------------|
| 5 | 49,565± | 707± | 48,858± |
| 6 | 53,261± | 1081± | 52,180± |

OWNER

Wilford M. & Mary V. Davis
c/o Susan Rhine
12885 Old Frederick Road
Sykesville, MD. 21784-5644

DEVELOPER

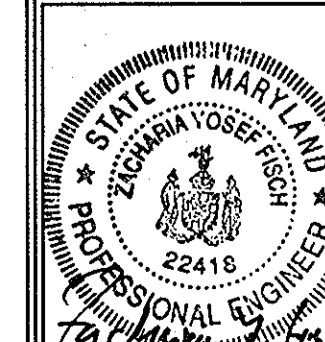
Hailey Development L.C.
3905 National Drive
Suite #105
Burtonsville, MD. 20866

COVER SHEET

DAVIS PROPERTY

LOTS 1 THRU 11 AND PRESERVATION
PARCELS 'A', 'B' AND 'C'

TAX MAP 15 GRID 22 PARCEL 36
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates

Engineers Planners Surveyors
5338 Howard Lane, Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fsher.com

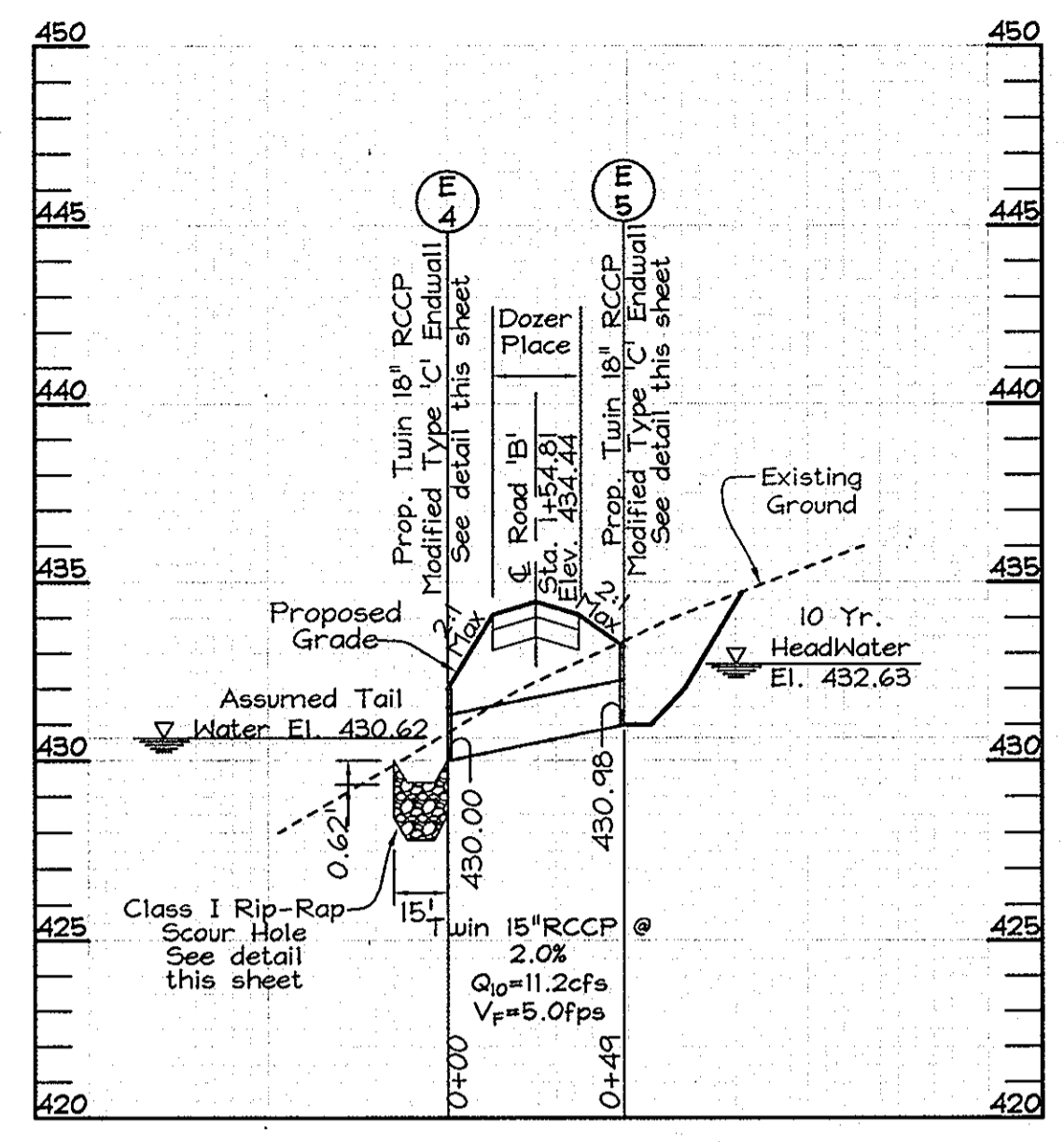
DESIGN BY: PS
DRAWN BY: KSZ
CHECKED BY: ZYF
SCALE: As Shown
DATE: Nov. 1, 2006
W.O. No.: 3303
SHEET No.: 1 OF 8

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

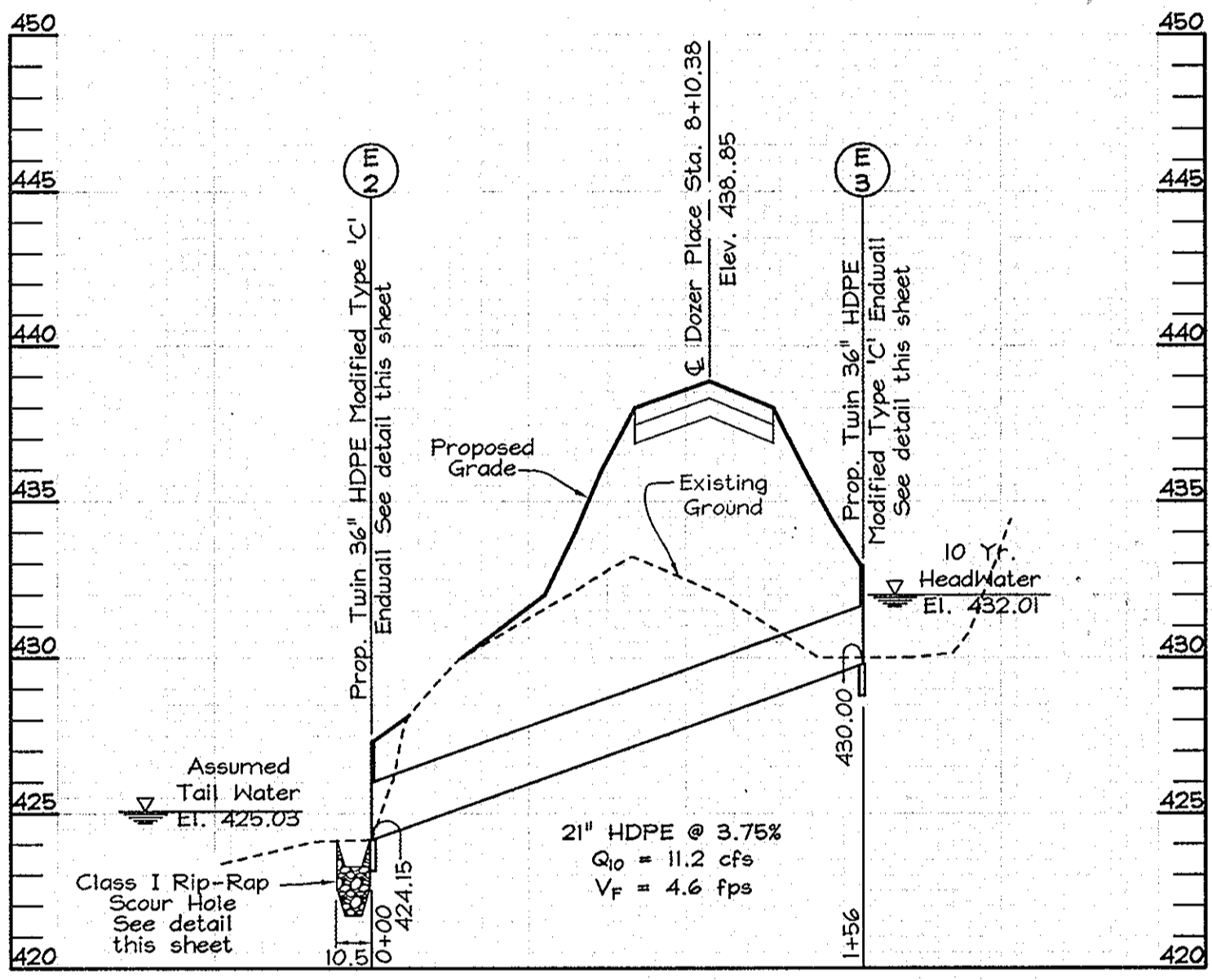
Robert W. Weber
COUNTY HEALTH OFFICER
11/28/06
DATE

TENTATIVELY APPROVED
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY

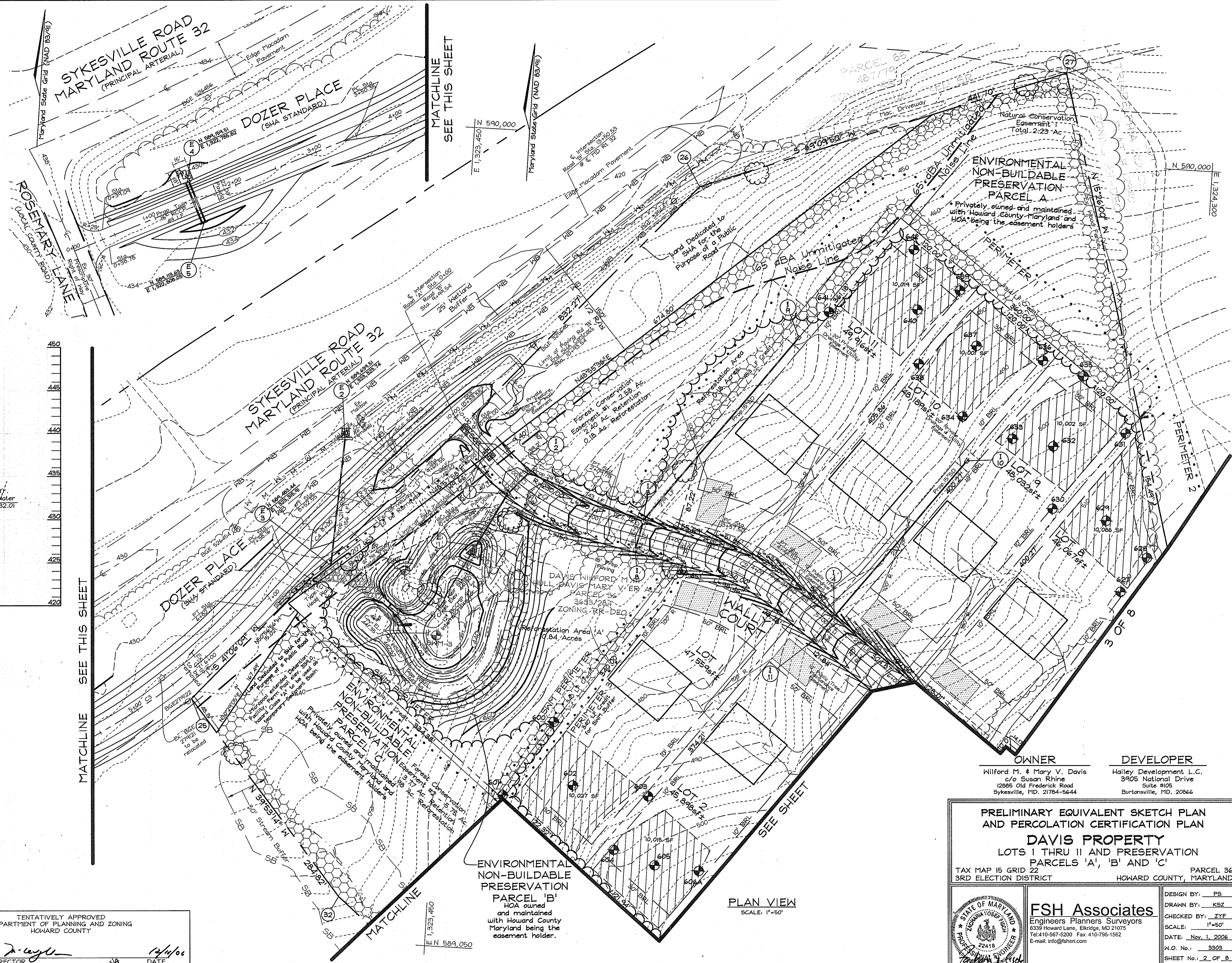
Frank D. Eagle
PLANNING DIRECTOR
12/11/06
DATE



CULVERT E4-E5
 SCALE: Horizontal: 1"=50'
 Vertical: 1"=5'



CULVERT E2-E3
 SCALE: Horizontal: 1"=50'
 Vertical: 1"=5'



PLAN VIEW
 SCALE: 1"=50'

OWNER
 Milford M. & Mary V. Davis
 c/o Susan Rhine
 12885 Old Frederick Road
 Sykesville, MD. 21784-5644

DEVELOPER
 Hailey Development L.C.
 3905 National Drive
 Suite #105
 Burtonsville, MD. 20866

PRELIMINARY EQUIVALENT SKETCH PLAN AND PERCOLATION CERTIFICATION PLAN
DAVIS PROPERTY
 LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C'
 TAX MAP 15 GRID 22 3RD ELECTION DISTRICT
 PARCEL 36 HOWARD COUNTY, MARYLAND

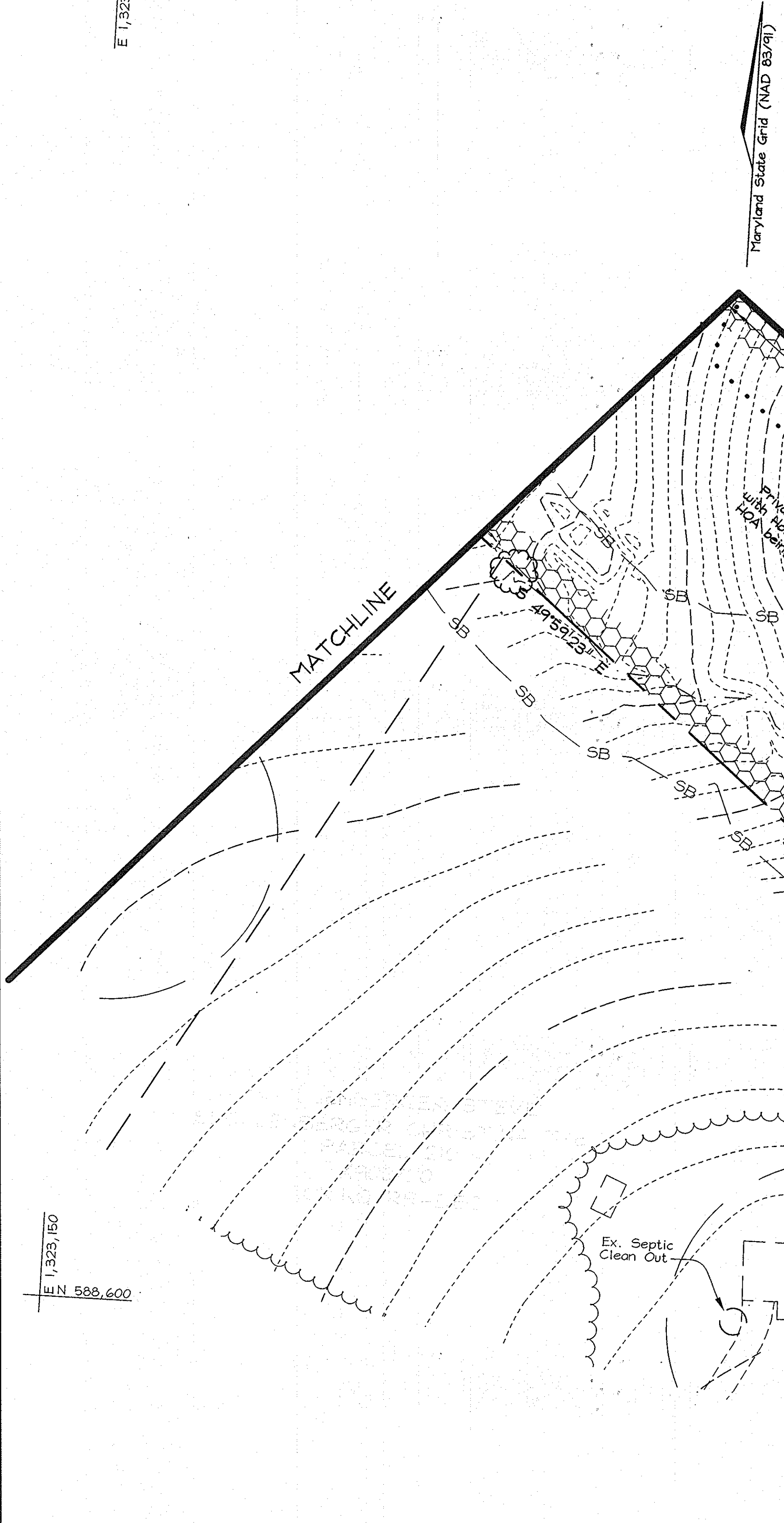
FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane, Ellicott City, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fsh.com

DESIGN BY: PS
 DRAWN BY: KSZ
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Nov. 1, 2006
 W.O. No.: 3303
 SHEET No.: 2 OF 8

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 Robert J. Walbr
 COUNTY HEALTH OFFICER
 11/28/06
 DATE

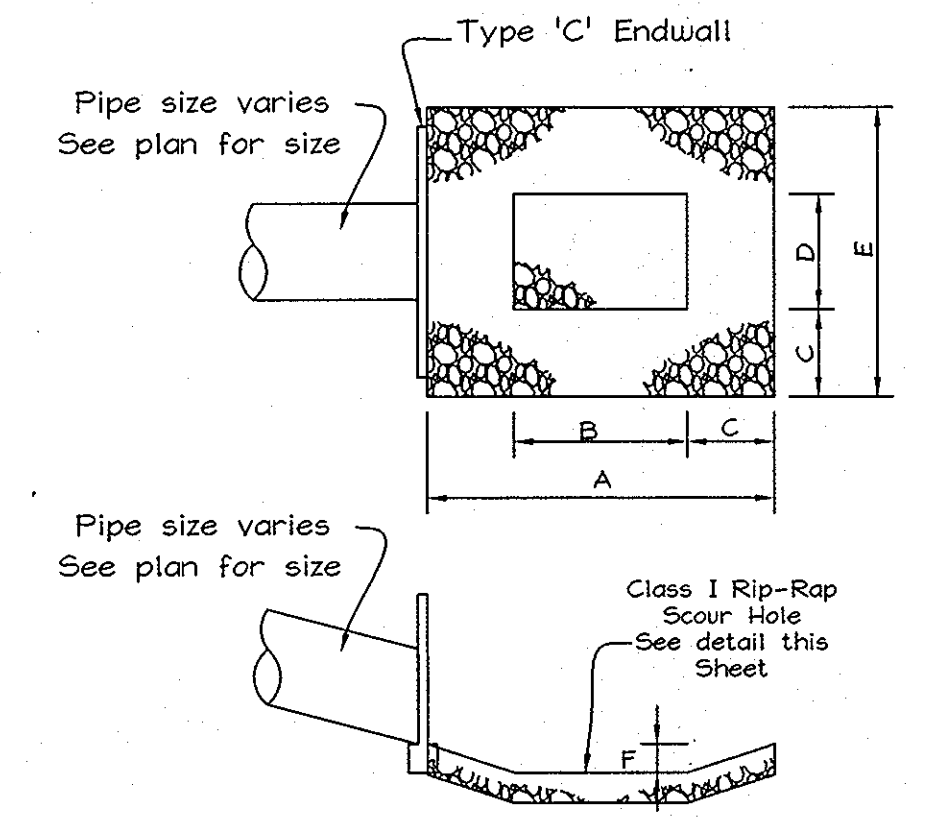
TENTATIVELY APPROVED
 DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY
 Mark D. Cagle
 PLANNING DIRECTOR
 12/14/06
 DATE

E 1,323,150
N 589,400



Maryland State Grid (NAD 83/91)

SEE SHEET



SECTION 'A'-'A'

NOT TO SCALE
TYPICAL SCOUR HOLE OUTFALL DETAIL

NOT TO SCALE
SCOUR HOLE TABLE

| OUTFALL | DIMENSIONS | | | | | REMARKS |
|---------|------------|-------|-------|-------|-------|-----------------|
| | A | B | C | E | F | |
| E-2 | 10.5' | 5.25' | 2.63' | 0.75' | 0.88' | Single 21" RCCP |
| E-4 | 15' | 7.5' | 3.75' | 12.5' | 0.62' | Twin 15" RCCPs |

E 1,323,150
N 588,600

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Robert J. Weber
COUNTY HEALTH OFFICER
DATE: 11/28/06

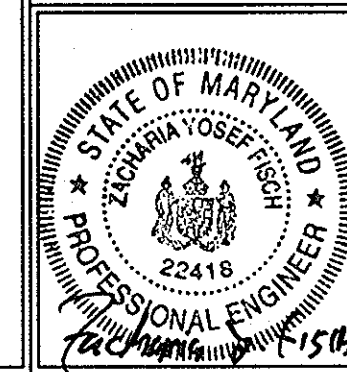
TENTATIVELY APPROVED
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY
Mark A. Wyle
PLANNING DIRECTOR
DATE: 12/11/06

PLAN VIEW
SCALE: 1"=50'

OWNER
Wilford M. & Mary V. Davis
c/o Susan Rhine
12885 Old Frederick Road
Sykesville, MD. 21784-5644

DEVELOPER
Hailey Development L.C.
3905 National Drive
Suite 1105
Burtoville, MD. 20866

PRELIMINARY EQUIVALENT SKETCH PLAN
AND PERCOLATION CERTIFICATION PLAN
DAVIS PROPERTY
LOTS 1 THRU 11 AND PRESERVATION
PARCELS 'A', 'B' AND 'C'
TAX MAP 15 GRID 22
3RD ELECTION DISTRICT



FSH Associates
Engineers Planners Surveyors
6339 Howard Lane, Elkridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fshen.com

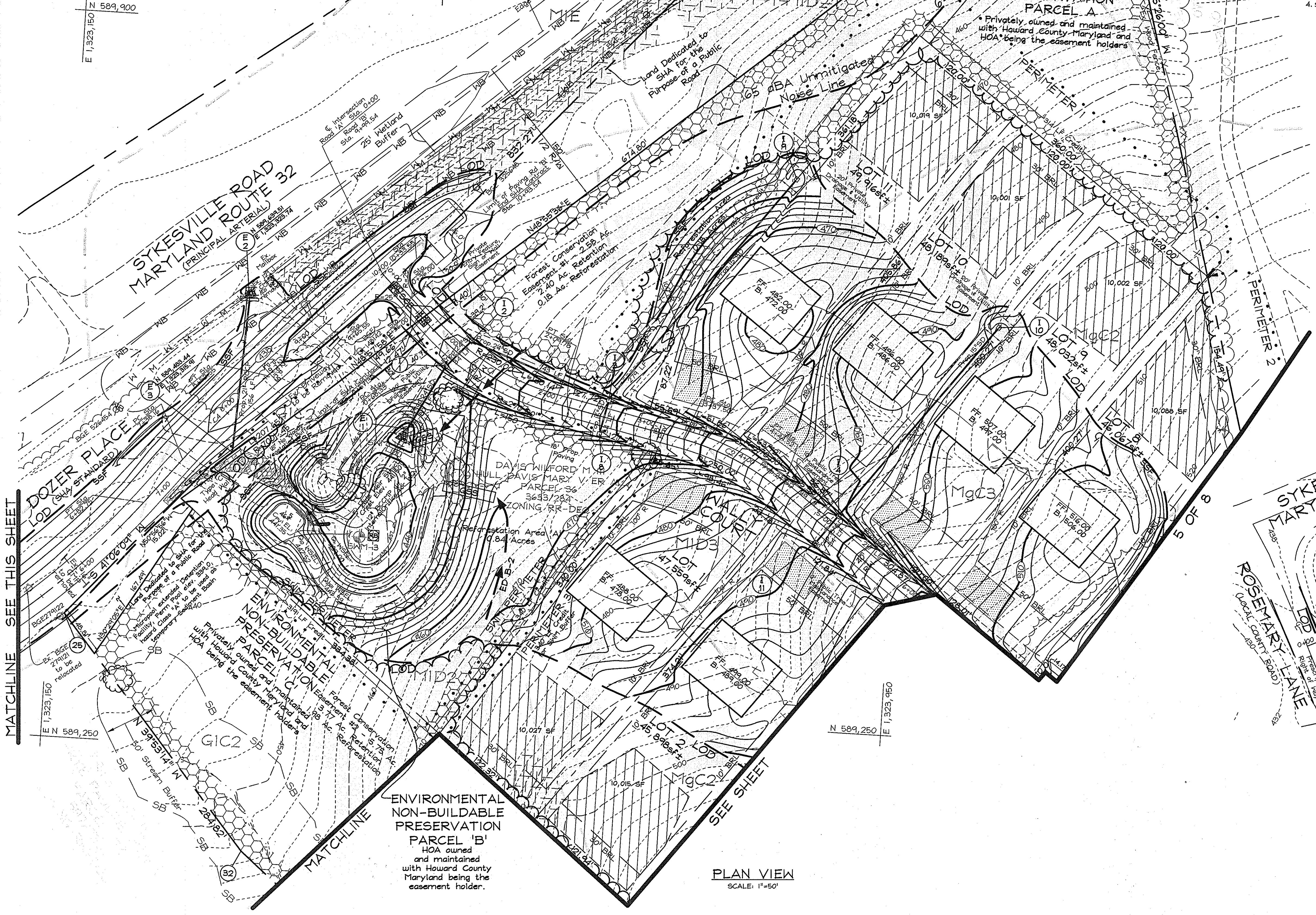
DESIGN BY: PS
DRAWN BY: KSZ
CHECKED BY: ZYF
SCALE: As Shown
DATE: Nov. 1, 2006
I.C. No.: 3303
SHEET No.: 3 OF 8

SCHEDULE A PERIMETER LANDSCAPE EDGE

| CATEGORY | ADJACENT TO PERIMETER PROPERTIES | | |
|---|----------------------------------|------|------------|
| | 1 | 2 | 3 |
| Perimeter Designation | A | A | A |
| Linear Feet of Perimeter | 809' | 820' | 1284' |
| Credit for Existing Vegetation (Yes, No, Linear Feet) | Yes, 767' | No | Yes, 1239' |
| Remaining Perimeter Length | 42' remain | No | 45' remain |
| Credit for Wall, Fence or Berm (Yes, No, Linear Feet) | No | No | No |
| Remaining Perimeter Length | - | - | - |
| Number of Plants Required | | | |
| Shade Trees | 1160 | 14 | 1160 |
| Evergreen Trees | - | - | - |
| Shrubs | - | - | - |

* Credit for Forest Conservation Planting and Retention and/or SHM Buffer - See Plan for Locations

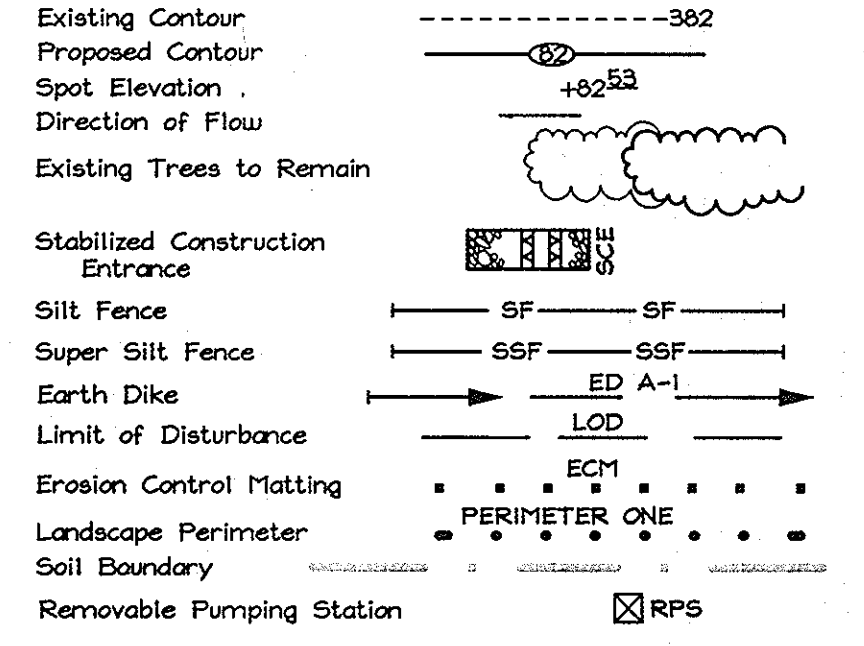
N 589,900
E 1,323,150



LANDSCAPE NOTES

- At the time of installation, all shrubs and other plantings hereunto listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscaping 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. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
- The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- Financial landscape surety will be part of the developer's agreement.
- Street Trees will be required along Road 'A' and Road 'B'.

LEGEND



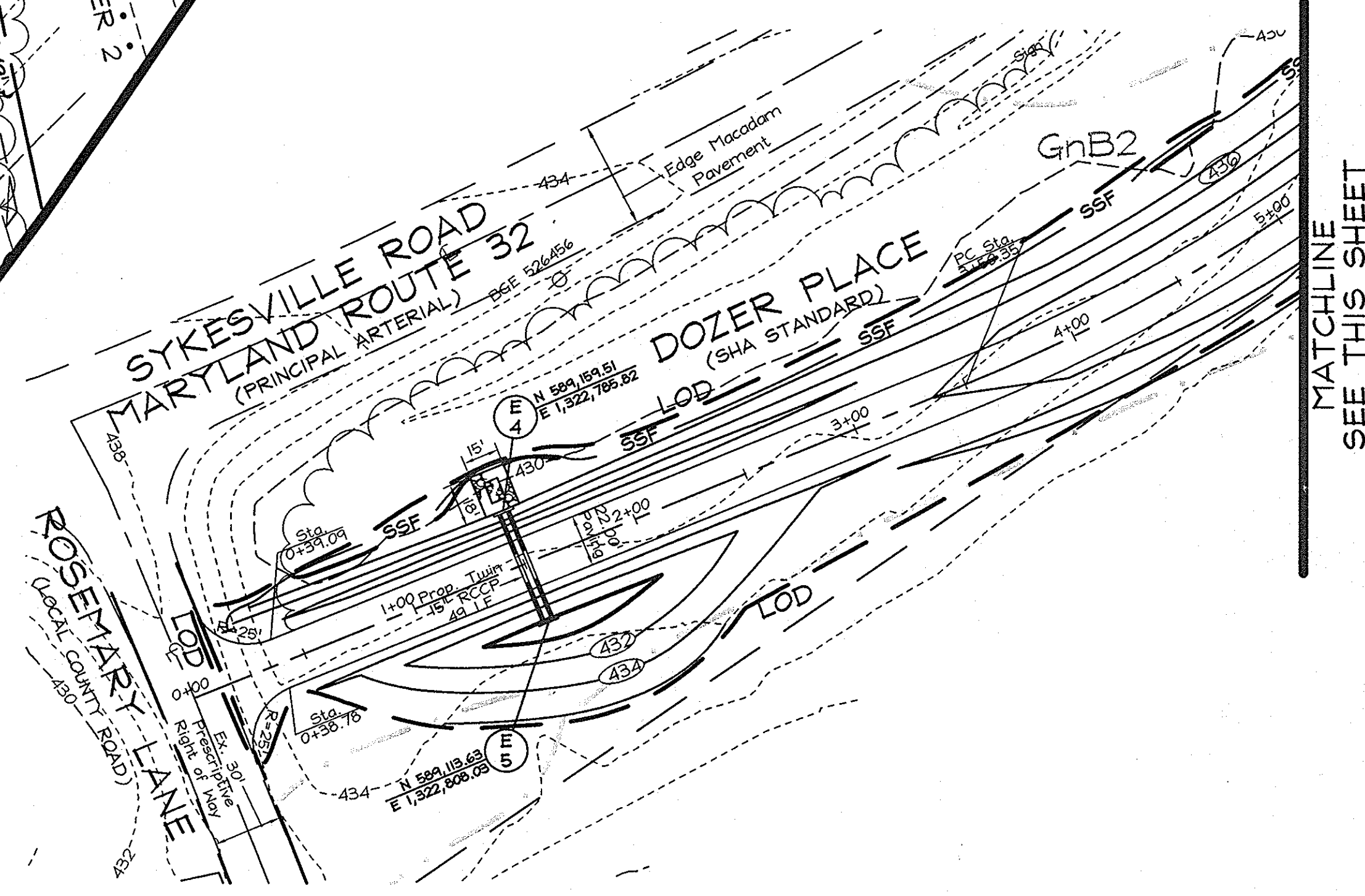
SCHEDULE D : STORMWATER MANAGEMENT AREA LANDSCAPING

| | |
|--|----------------------|
| Linear Feet of Perimeter | 1210' |
| Credit for Existing Vegetation (No, Yes and Linear Feet) | Yes, 659' 55' remain |
| Credit for other Landscaping (No, Yes and %) | N/A |
| Number of Trees Required | |
| Shade Trees | 150 |
| Evergreen Trees | 14 |
| Number of Trees Provided | |
| Shade Trees | To Be Determined |
| Evergreen Trees | To Be Determined |
| Other Trees (2:1 Substitution) | To Be Determined |

* 180' Credit for Forest Conservation Planting and Retention

STREET TREE SCHEDULE

| STREET NAME | LF REQUIRED | TREES REQUIRED | TREES PROVIDED |
|-------------|-------------|----------------|------------------|
| Hally Court | 1560 | 39 | To Be Determined |
| Dozer Place | 2186 | 55 | To Be Determined |



MATCHLINE SEE THIS SHEET

MATCHLINE SEE THIS SHEET

ENVIRONMENTAL NON-BUILDABLE PRESERVATION PARCEL 'B'
HOA owned and maintained with Howard County Maryland being the easement holder.

PLAN VIEW
SCALE: 1"=50'

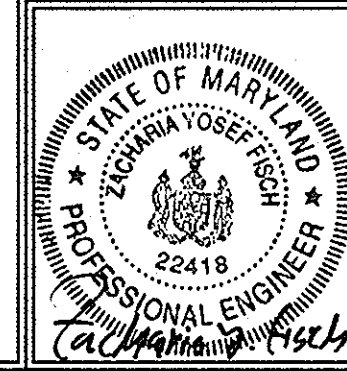
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
Robert W. Weber
COUNTY HEALTH OFFICER
DATE: 11/29/06

TENTATIVELY APPROVED
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY
Mark L. Cagle
PLANNING DIRECTOR
DATE: 12/15/06

OWNER
Wilford M. & Mary V. Davis
c/o Susan Rhine
12885 Old Frederick Road
Sykesville, MD. 21784-5644

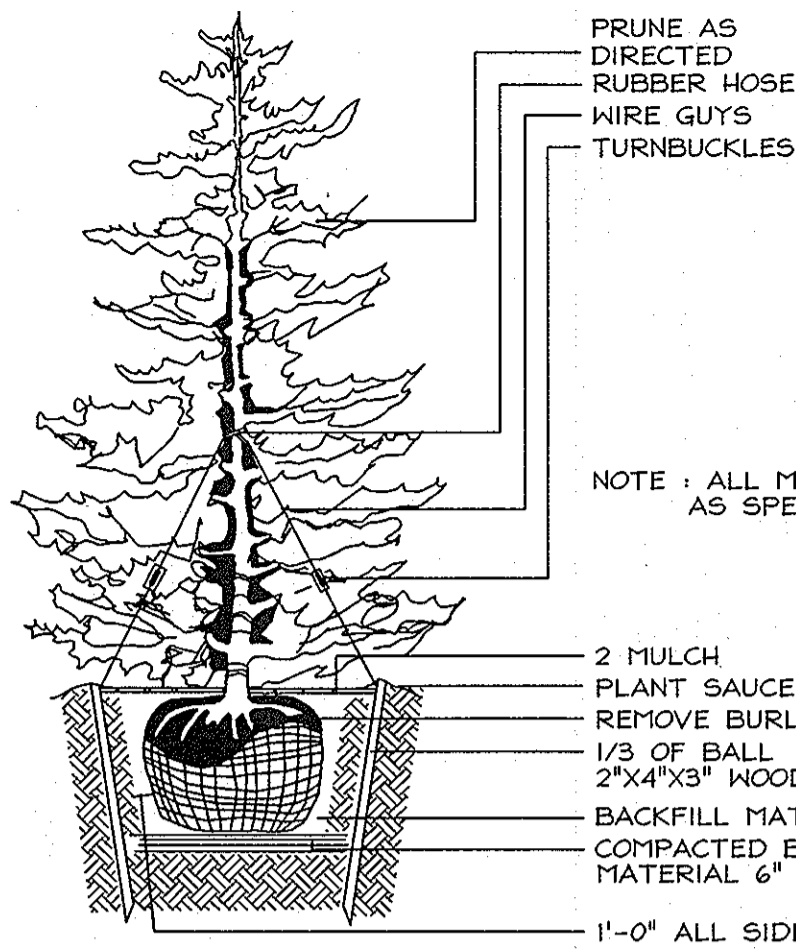
DEVELOPER
Hailey Development L.C.
3905 National Drive
Suite #105
Burtonsville, MD. 20866

PRELIMINARY GRADING, LANDSCAPING, SEDIMENT AND EROSION CONTROL, SOILS, AND PERCOLATION CERTIFICATION PLAN
DAVIS PROPERTY
LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C'
TAX MAP 15 GRID 22 PARCEL 36
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates
Engineers Planners Surveyors
6339 Howard Lane, Elridge, MD 21075
Tel: 410-567-5200 Fax: 410-796-1562
E-mail: info@fshnet.com

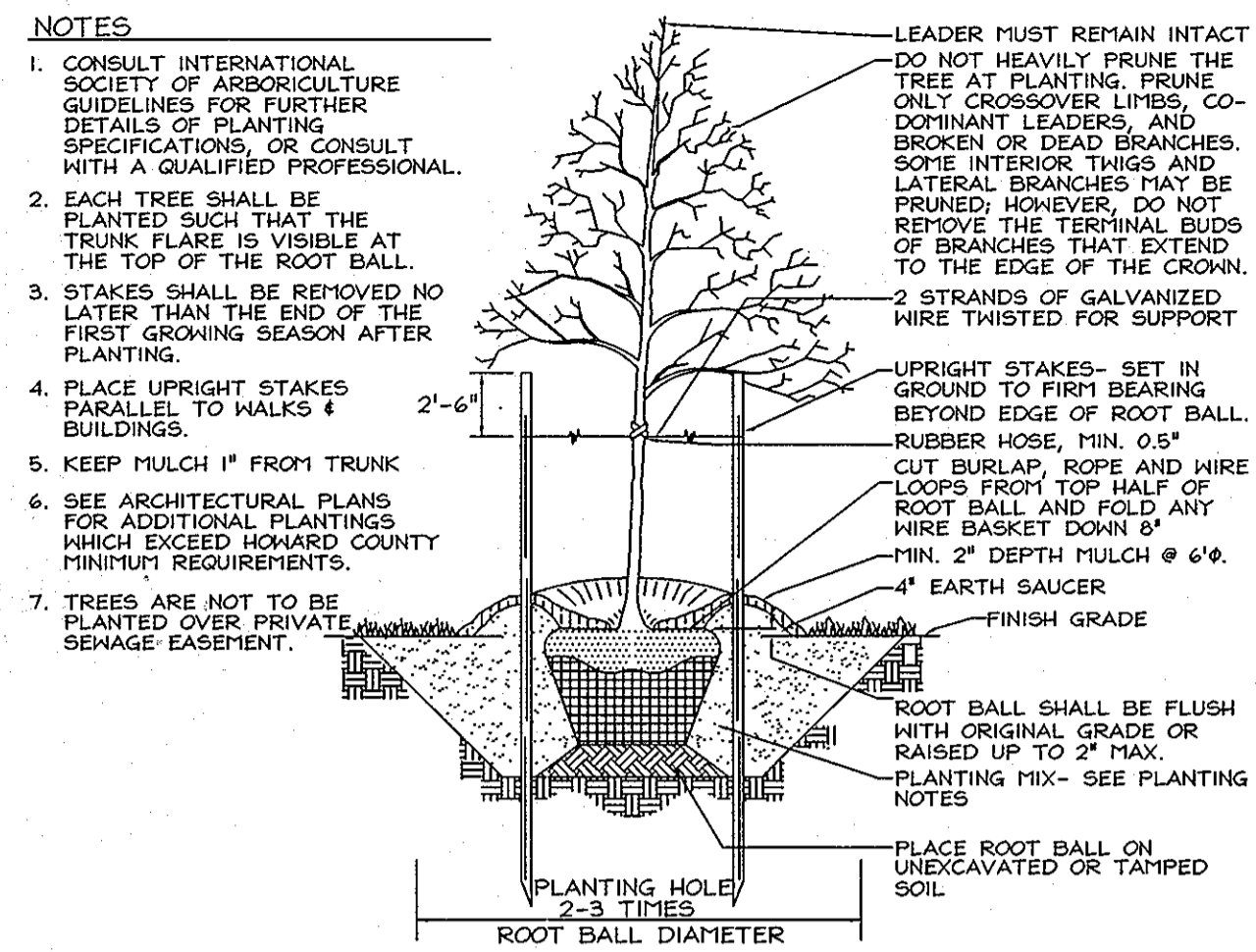
DESIGN BY: PS
DRAWN BY: K92
CHECKED BY: ZYF
SCALE: 1"=50'
DATE: Nov. 1, 2006
W.O. No.: 3303
SHEET No.: 4 OF 8



NOTE: ALL MATERIALS AS SPECIFIED

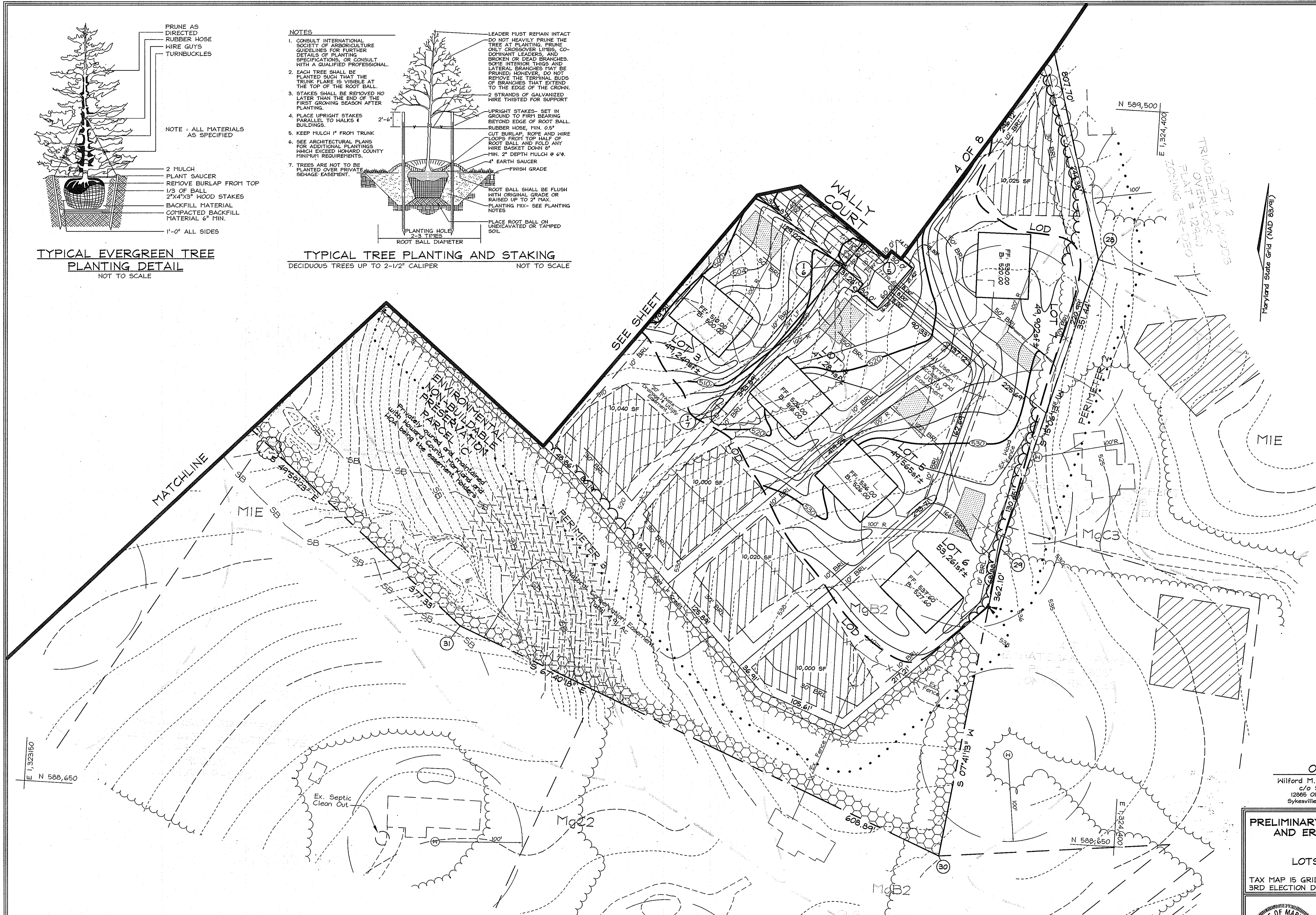
- 2 MULCH
- PLANT SAUCER
- REMOVE BURLAP FROM TOP
- 1/3 OF BALL
- 2"x4"x3" WOOD STAKES
- BACKFILL MATERIAL
- COMPACTED BACKFILL MATERIAL 6" MIN.
- 1'-0" ALL SIDES

TYPICAL EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



TYPICAL TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIPER
NOT TO SCALE

| LEGEND | |
|----------------------------------|---------------|
| Existing Contour | ---382--- |
| Proposed Contour | ---+8253--- |
| Spot Elevation | 100' |
| Direction of Flow | → |
| Existing Trees to Remain | (Tree symbol) |
| Stabilized Construction Entrance | (Hatched box) |
| Silt Fence | SF SF |
| Super Silt Fence | SSSF SSSF |
| Earth Dike | ED A-1 |
| Limit of Disturbance | LOD |
| Erosion Control Matting | ECM1 |
| Landscape Perimeter | PERIMETER ONE |
| Soil Boundary | (Dotted line) |



| | |
|---|---|
| OWNER Milford M. & Mary V. Davis c/o Susan Rhine 12885 Old Frederick Road Sykesville, MD. 21784-5644 | DEVELOPER Hailey Development L.C. 3905 National Drive Suite #105 Burtonsville, MD. 20866 |
|---|---|

PRELIMINARY GRADING, LANDSCAPING, SEDIMENT AND EROSION CONTROL AND SOILS PLAN

DAVIS PROPERTY
LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C'

TAX MAP 15 GRID 22
3RD ELECTION DISTRICT

PARCEL 36
HOWARD COUNTY, MARYLAND

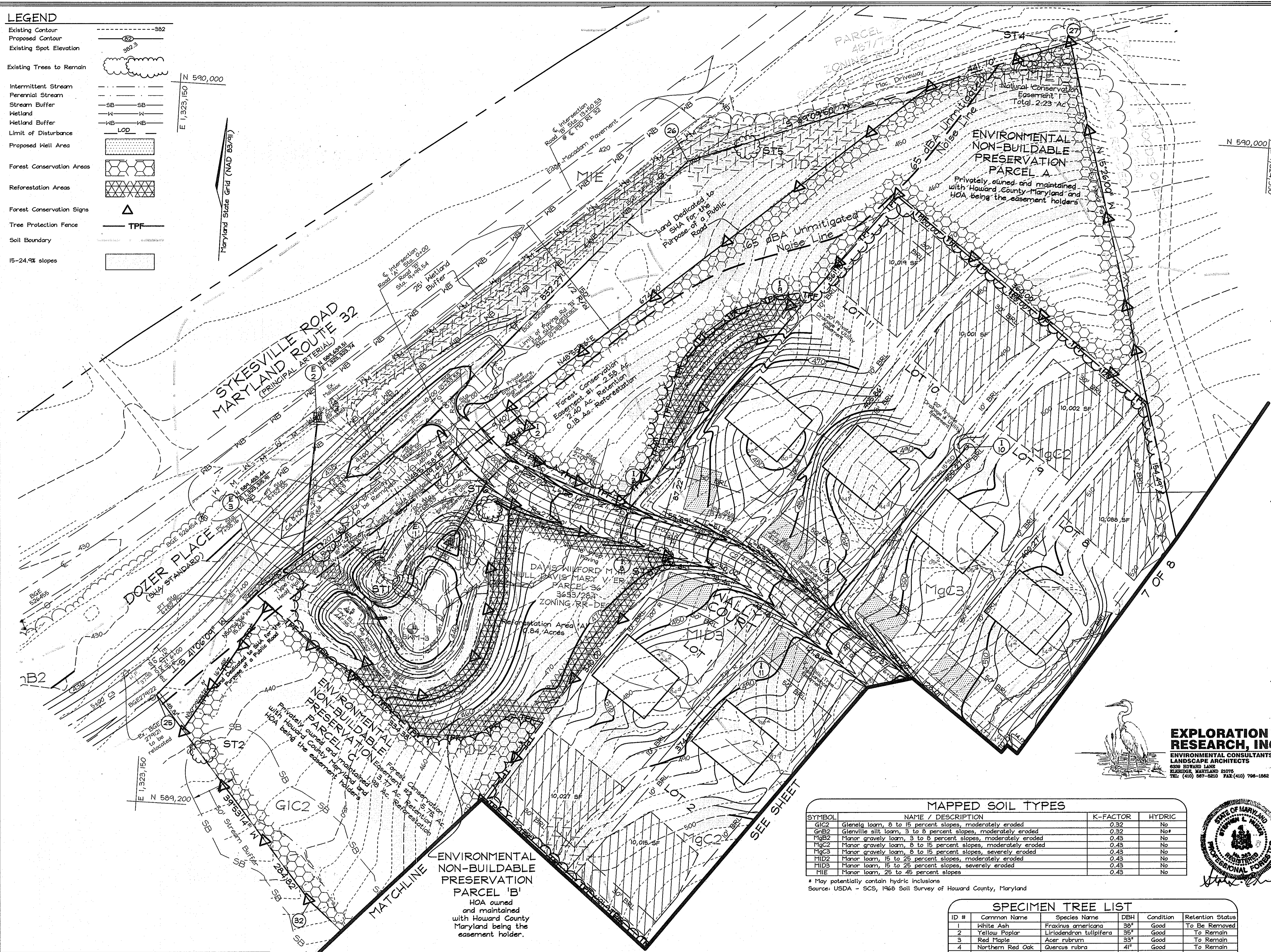
| | | |
|--|---|--------------------|
| | FSH Associates Engineers Planners Surveyors 6339 Howard Lane, Elkridge, MD 21075 Tel: 410-567-6200 Fax: 410-786-1582 E-mail: info@fsheri.com | DESIGN BY: PS |
| | | DRAWN BY: HK |
| | | CHECKED BY: ZYF |
| | | SCALE: 1"=50' |
| | | DATE: Nov. 1, 2006 |
| | | PL. O. No.: 3308 |
| | | SHEET No.: 5 OF 8 |

| | |
|--|--|
| APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT <i>Robert W. Weller</i> COUNTY HEALTH OFFICER DATE: 11/26/06 | TENTATIVELY APPROVED DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY <i>Rashid A. Ayler</i> PLANNING DIRECTOR DATE: 12/1/06 |
|--|--|

PLAN VIEW
SCALE: 1"=50'

LEGEND

| | |
|---------------------------|--------|
| Existing Contour | ---382 |
| Proposed Contour | ---382 |
| Existing Spot Elevation | 382.5 |
| Existing Trees to Remain | |
| Intermittent Stream | --- |
| Perennial Stream | --- |
| Stream Buffer | SB |
| Wetland | W |
| Wetland Buffer | WB |
| Limit of Disturbance | LOD |
| Proposed Well Area | |
| Forest Conservation Areas | |
| Reforestation Areas | |
| Forest Conservation Signs | △ |
| Tree Protection Fence | TPF |
| Soil Boundary | --- |
| 15-24.9% slopes | |



FOREST CONSERVATION NARRATIVE

This Forest Conservation Plan has been developed in accordance with the Howard County Forest Conservation Act of 1991. Additionally, the rules for Rural Cluster Subdivisions, Option B have been utilized. The total tract area consists of 23.66 acres of land. The site contains 17.38 acres of forest cover.

Forest retained in easements will total 6.17 acres. A total of 2.16 acres of reforestation planting is proposed on-site, with a fee-in-lieu requested for the remaining 0.39 acres required (see calculations below). Two forest conservation easements will be established. Total area contained within these easements is 6.33 acres. Easement 1 will have retention and newly forested area for credit, and contains steep slope areas. Easement 2 will also have retention and newly forested area for credit. Easement 2 contains a stream and the associated buffer, as well as areas of steep slopes.

New on-site plantings will be a mix of 2.5" cal. trees at 100 trees/acre and 2-3" containerized whip stock planted at 350 stems/acre with tree shelters. The larger plant material will be primarily planted around the edges adjacent to the required landscape perimeters for buffer credit. Plant material will be chosen to match existing forest resources, as appropriate.

Forest Conservation Surety in the amount of \$100,798.00 will be posted with the Developers Agreement.
 Reforestation: 2.16 Ac. (94,090 s.f.) @ \$0.50/s.f. = \$47,045.00
 Retention: 6.17 Ac. (268,765 s.f.) @ \$0.20/s.f. = \$53,753.00

Remaining Forest Conservation requirement of 0.39 Ac. (2,55 Ac. required - 2.16 Ac. Reforestation on-site) will be fulfilled by a fee-in-lieu payment of \$6,494.20 (16,988 s.f. @ \$0.50/s.f.).

FOREST CONSERVATION EASEMENT TABLE

| EASEMENT | TYPE | AREA (ACRES) |
|----------|---------------|--------------|
| 1 | Retention | 2.40 |
| | Reforestation | 0.18 |
| 2 | Retention | 3.77 |
| | Reforestation | 1.98 |
| TOTAL | Retention | 6.17 |
| | Reforestation | 2.16 |

FOREST CONSERVATION WORKSHEET

| | |
|--|-------|
| Net Tract Area | Acres |
| A. Total Tract Area | 23.66 |
| B. Area Within 100 Year Floodplain | -- |
| C. Other deductions | -- |
| D. Net Tract Area | 23.66 |
| Zoning Use Category: RESIDENTIAL-RURAL MEDIUM DENSITY | |
| Land Use Category | |
| E. Afforestation Minimum (20 % x D) | 4.73 |
| F. Conservation Threshold (25 % x D) | 5.92 |
| Existing Forest Cover | |
| G. Existing Forest on Net Tract Area | 17.38 |
| H. Forest Area Above Conservation Threshold | 11.47 |
| Breakeven Point | |
| I. Forest Retention Above Threshold with no Mitigation | 8.21 |
| J. Clearing Permitted without Mitigation | 9.17 |
| Proposed Forest Clearing | |
| K. Forest Areas to be Cleared | 11.21 |
| L. Forest Areas to be Retained | 6.17 |
| Planting Requirements | |
| M. Reforestation for Clearing Above Threshold | 2.80 |
| N. Reforestation for Clearing Below the Threshold | 0 |
| P. Credit for Retention Above Conservation Threshold | 0.25 |
| Q. Total Reforestation Required | 2.55 |
| R. Total Afforestation Required | 0 |
| S. Total Reforestation and Afforestation Requirement | 2.55 |



EXPLORATION RESEARCH, INC.
 ENVIRONMENTAL CONSULTANTS
 LANDSCAPE ARCHITECTS
 6539 EDWARDS LANE
 BELTSVILLE, MARYLAND 21075
 TEL: (410) 567-5810 FAX: (410) 796-1582

MAPPED SOIL TYPES

| SYMBOL | NAME / DESCRIPTION | K-FACTOR | HYDRIC |
|--------|--|----------|--------|
| G1C2 | Glenelg loam, 8 to 15 percent slopes, moderately eroded | 0.32 | No |
| G1B2 | Glenelg silt loam, 3 to 8 percent slopes, moderately eroded | 0.32 | No* |
| MgB2 | Manor gravelly loam, 3 to 8 percent slopes, moderately eroded | 0.43 | No |
| MgC2 | Manor gravelly loam, 8 to 15 percent slopes, moderately eroded | 0.43 | No |
| MgC3 | Manor gravelly loam, 8 to 15 percent slopes, severely eroded | 0.43 | No |
| M1D2 | Manor loam, 15 to 25 percent slopes, moderately eroded | 0.43 | No |
| M1D3 | Manor loam, 15 to 25 percent slopes, severely eroded | 0.43 | No |
| M1E | Manor loam, 25 to 45 percent slopes | 0.43 | No |

* May potentially contain hydric inclusions
 Source: USDA - SCS, 1968 Soil Survey of Howard County, Maryland

SPECIMEN TREE LIST

| ID # | Common Name | Species Name | DBH | Condition | Retention Status |
|------|------------------|-------------------------|-----|--------------------------|------------------|
| 1 | White Ash | Fraxinus americana | 38" | Good | To Be Removed |
| 2 | Yellow Poplar | Liriodendron tulipifera | 35" | Good | To Remain |
| 3 | Red Maple | Acer rubrum | 33" | Good | To Remain |
| 4 | Northern Red Oak | Quercus rubra | 41" | Good | To Remain |
| 5 | Northern Red Oak | Quercus rubra | 35" | Good | To Remain |
| 6 | Red Maple | Acer rubrum | 38" | Fair* | To Be Removed |
| 7 | Red Maple | Acer rubrum | 35" | Good | To Be Removed |
| 8 | Shingle Oak | Quercus imbricaria | 36" | Fair / Poor ² | To Be Removed |
| 9 | Shingle Oak | Quercus imbricaria | 30" | Very Poor | To Be Removed |

* Hollow Trunk
 1 Smaller Trunk dead
 2 Crown Dieback

OWNER
 Wilford M. & Mary V. Davis
 c/o Susan Rhine
 12885 Old Frederick Road
 Sykesville, MD. 21784-5644

DEVELOPER
 Hailey Development L.C.
 3905 National Drive
 Suite #105
 Burtonsville, MD. 20866

FOREST CONSERVATION PLAN
DAVIS PROPERTY
 LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C'
 TAX MAP 15 GRID 22 PARCEL 36
 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FSH Associates
 Engineers Planners Surveyors
 6338 Howard Lane, Ellicott City, MD 21075
 Tel: 410-567-5200 Fax: 410-796-1562
 E-mail: info@fsheri.com

DESIGN BY: PS
 DRAWN BY: KSZ/SMM
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Nov. 1, 2006
 W.O. No.: 3303
 SHEET No.: 6 OF 8

TENTATIVELY APPROVED
 DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY

Mark D. Agell
 PLANNING DIRECTOR

DATE: *11/1/06*

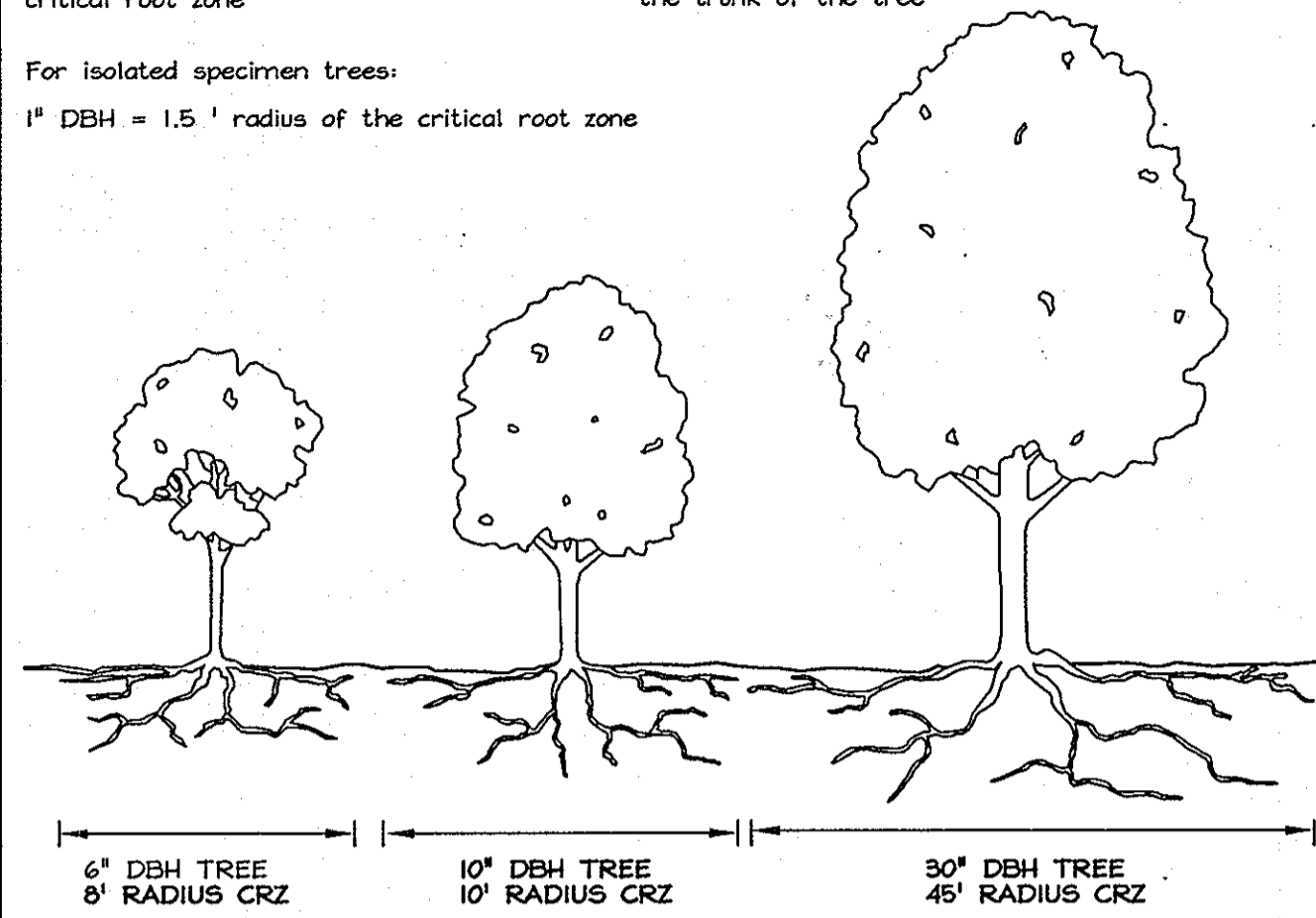
CRITICAL ROOT ZONE

For the edge of large areas, use the greater of the two choices below:

1" DBH of the tree = 1' radius of the critical root zone or 8 ft radius circle around the trunk of the tree

For isolated specimen trees:

1" DBH = 1.5' radius of the critical root zone



Soil Protection Zone Notes

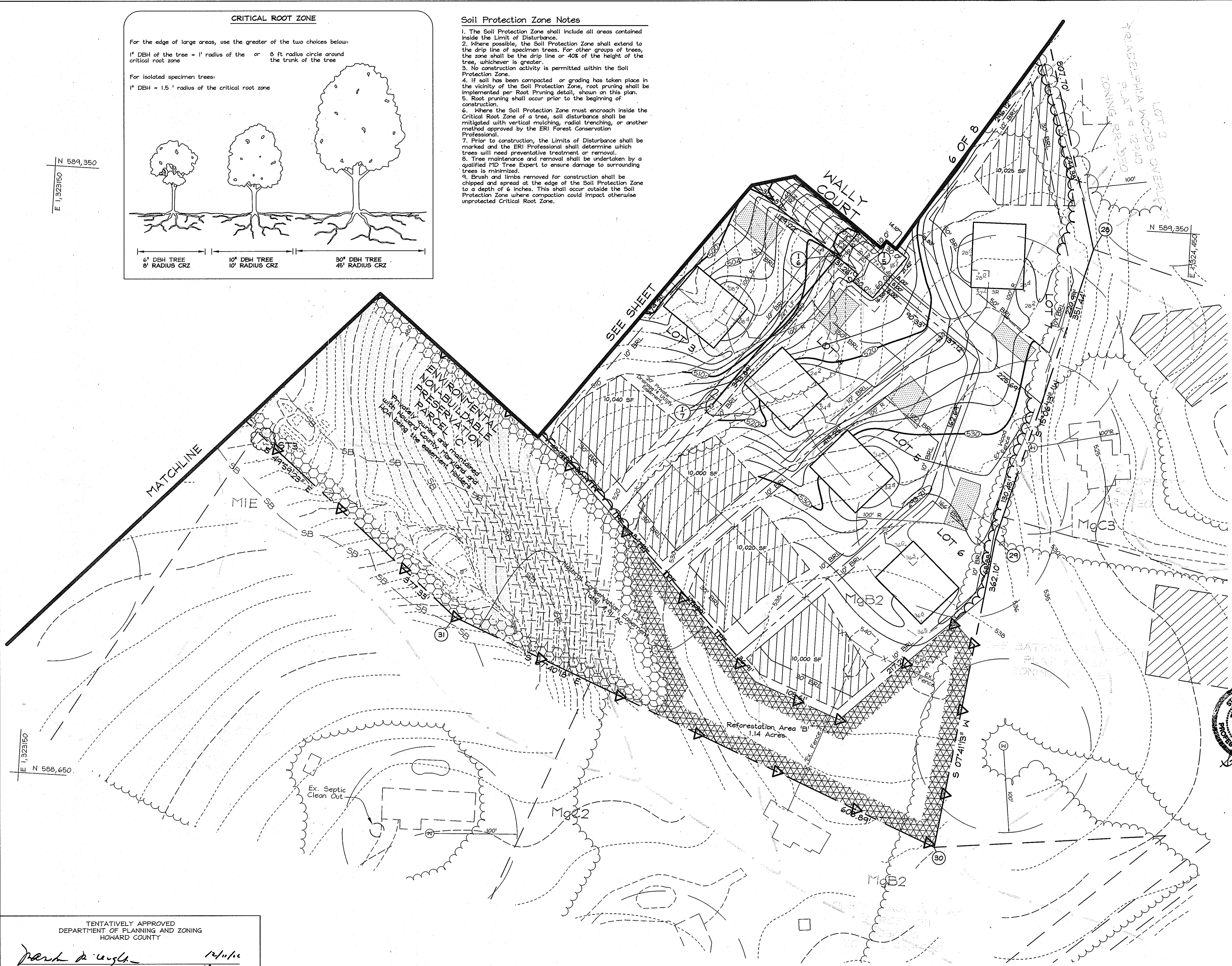
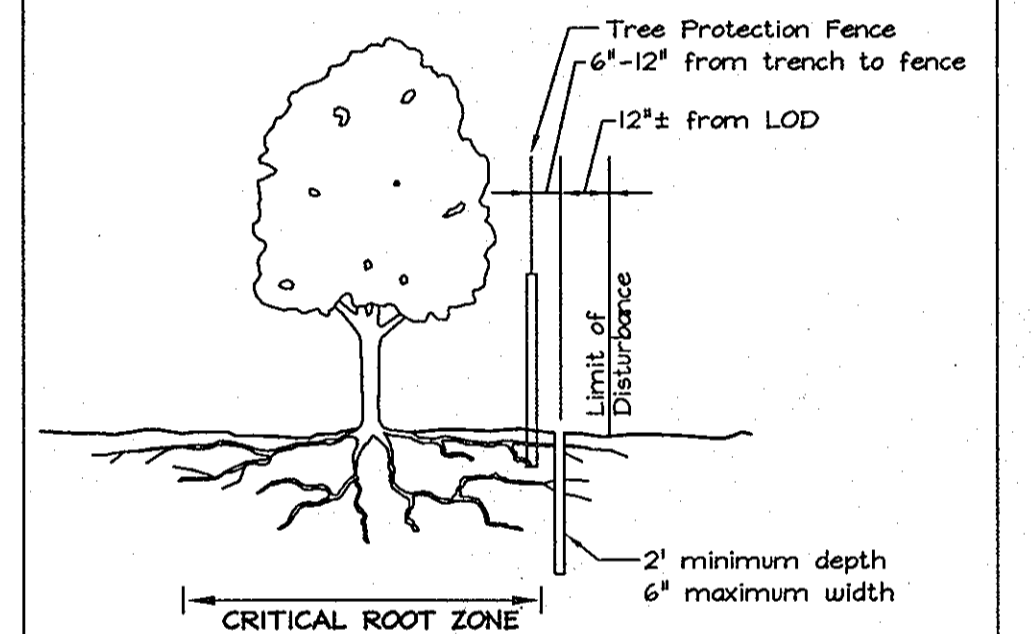
1. The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.
2. Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line or 40% of the height of the tree, whichever is greater.
3. No construction activity is permitted within the Soil Protection Zone.
4. If soil has been compacted or grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan.
5. Root pruning shall occur prior to the beginning of construction.
6. Where the Soil Protection Zone must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional.
7. Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.
8. Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized.
9. Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.

LEGEND

- Existing Contour: - - - - -
- Proposed Contour: - - - - -
- Existing Spot Elevation: 30.2'
- Existing Trees to Remain: [Tree symbol]
- Intermittent Stream: - · - · -
- Perennial Stream: - - - - -
- Stream Buffer: - SB - SB -
- Wetland: - W - W -
- Wetland Buffer: - WB - WB -
- Limit of Disturbance: LOD
- Proposed Well Area: [Hatched pattern]
- Forest Conservation Areas: [Cross-hatched pattern]
- Reforestation Areas: [Diagonal hatched pattern]
- Forest Conservation Signs: [Triangle symbol]
- Tree Protection Fence: TPF
- Soil Boundary: [Dotted pattern]
- 15-24.9% slopes: [Stippled pattern]

ROOT PRUNING

1. Retention areas shall be set prior to construction
2. Boundaries of retention areas shall be flagged, and location of trench shall be specified by ERI Qualified Professional.
3. Roots shall be cut cleanly with root pruning equipment. Where roots 2" are found, trenching shall be done by air spade or hand tools. Roots 2" shall be cut with a hand saw.
4. Trench shall be immediately backfilled with soil removed or high organic content soil.
5. Any other techniques shall be approved by the ERI Qualified Professional before implementation.



EXPLORATION RESEARCH, INC.
 ENVIRONMENTAL CONSULTANTS
 LANDSCAPE ARCHITECTS
 6339 HOWARD LANE
 ELK RIDGE, MARYLAND 21075
 TEL: (410) 587-5200 FAX: (410) 796-1582



OWNER
 Wilford M. & Mary V. Davis
 c/o Susan Rhine
 12885 Old Frederick Road
 Sykeville, MD. 21784-5644

DEVELOPER
 Hailey Development L.C.
 3905 National Drive
 Suite #105
 Burtonsville, MD. 20866

FOREST CONSERVATION PLAN
DAVIS PROPERTY
 LOTS 1 THRU 11 AND PRESERVATION
 PARCELS 'A', 'B' AND 'C'
 TAX MAP 15 GRID 22 PARCEL 36
 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane, Elkridge, MD 21075
 Tel: 410-587-5200 Fax: 410-796-1582
 E-mail: info@fsher.com

DESIGN BY: PS
 DRAWN BY: HK/SMM
 CHECKED BY: ZYF
 SCALE: 1"=50'
 DATE: Nov. 1, 2006
 M.O. No.: 3303
 SHEET No.: 7 OF 8

TENTATIVELY APPROVED
 DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY

Park & Leigh
 PLANNING DIRECTOR

12/1/16
 JA DATE

EASEMENT #1 - REFORESTATION AREA : 7841 Sq. ft. (0.18 Ac)

18 plants - 2.5' Cal Trees (0.18 Ac. x 100 TPA)

| Qty | Botanical Name | Common Name | Min. Size | Spacing | Notes |
|-----|--------------------------------|-------------------|-----------|----------|---|
| 4 | <i>Carya tomentosa</i> | Mockernut Hickory | WHIP 2-3' | 11' o.c. | 1-3 Gallon Container Grown with Tree Shelters |
| 3 | <i>Cornus florida</i> | Flowering Dogwood | WHIP 2-3' | 11' o.c. | |
| 4 | <i>Liriodendron tulipifera</i> | Tulip Poplar | WHIP 2-3' | 11' o.c. | |
| 3 | <i>Quercus alba</i> | White Oak | WHIP 2-3' | 11' o.c. | |
| 4 | <i>Quercus rubra</i> | Red Oak | WHIP 2-3' | 11' o.c. | |

EASEMENT #2 - REFORESTATION AREA 'A' : 36,590 Sq. ft. (0.84 Ac)

294 plants - 2'-3' Whips (0.84 Ac. x 350 TPA)*

| Qty | Botanical Name | Common Name | Min. Size | Spacing | Notes |
|-----|--------------------------------|---------------|-----------|----------|---|
| 58 | <i>Acer rubrum</i> | Red Maple | WHIP 2-3' | 11' o.c. | 1-3 Gallon Container Grown with Tree Shelters |
| 58 | <i>Liriodendron tulipifera</i> | Tulip Poplar | WHIP 2-3' | 11' o.c. | |
| 60 | <i>Pinus virginiana</i> | Virginia Pine | WHIP 2-3' | 11' o.c. | |
| 60 | <i>Prunus serotina</i> | Black Cherry | WHIP 2-3' | 11' o.c. | |
| 58 | <i>Quercus rubra</i> | Red Oak | WHIP 2-3' | 11' o.c. | |

*At Final Plan stage Landscape sized trees will be specified for some portion to qualify for SHM Perimeter buffer planting requirements.

EASEMENT #2 - REFORESTATION AREA 'B' : 50,530 Sq. ft. (1.16 Ac)

406 plants - 2'-3' Whips (1.16 Ac. x 350 TPA)*

| Qty | Botanical Name | Common Name | Min. Size | Spacing | Notes |
|-----|--------------------------------|---------------|-----------|----------|---|
| 80 | <i>Acer rubrum</i> | Red Maple | WHIP 2-3' | 11' o.c. | 1-3 Gallon Container Grown with Tree Shelters |
| 80 | <i>Liriodendron tulipifera</i> | Tulip Poplar | WHIP 2-3' | 11' o.c. | |
| 83 | <i>Pinus virginiana</i> | Virginia Pine | WHIP 2-3' | 11' o.c. | |
| 83 | <i>Prunus serotina</i> | Black Cherry | WHIP 2-3' | 11' o.c. | |
| 80 | <i>Quercus rubra</i> | Red Oak | WHIP 2-3' | 11' o.c. | |

*At Final Plan stage Landscape sized trees will be specified for some portion to qualify for Perimeter 3 buffer planting requirements.

Management Notes for Retention Areas

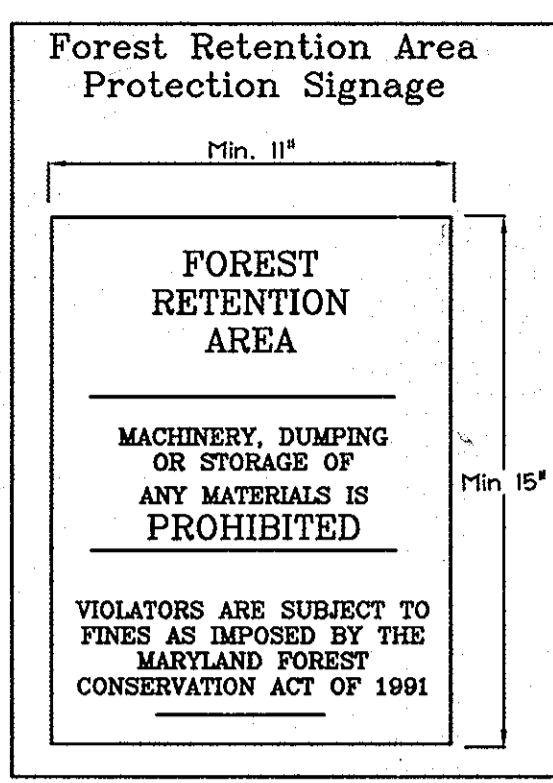
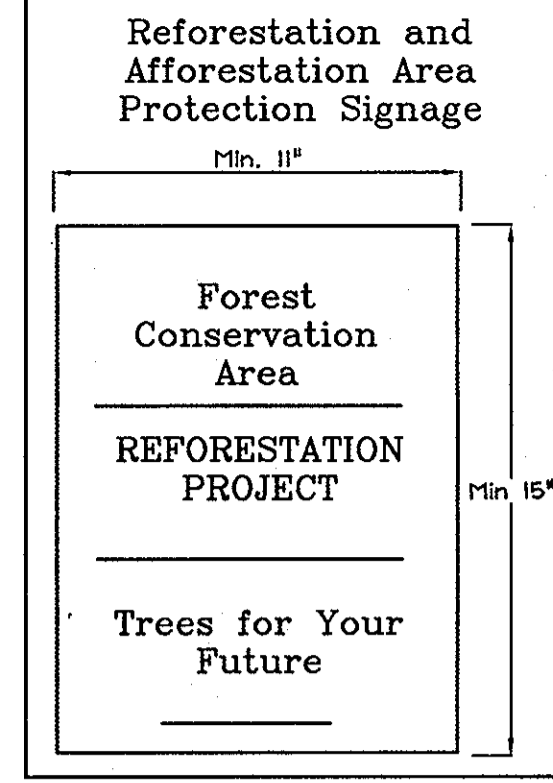
- All proposed activities shall adhere to the conditions, schedules and terms of an approved sediment control and erosion plan.
- After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on-site, a preconstruction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate County inspectors shall attend.
- Tree protection for all retained areas:
 - All retention areas within 50 feet of proposed construction activities shall be protected by highly visible, well anchored temporary protection devices (silt fence or biodegradable plastic mesh).
 - All protection devices shall be in place prior to any grading or land clearing.
 - All protection devices shall be properly maintained and shall remain in place until construction has ceased.
 - Attachment of signs, fencing or other objects to trees is prohibited.
 - No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- If the critical root zone (see detail) is affected by construction activities such as grade change, digging for foundations and roads or utility installation:
 - Prune roots with a clean cut using proper pruning equipment (see root pruning detail)
 - Water and fertilize as needed.
- During construction phase, monitor and correct condition of retained trees for: soil compaction, root injury, flood conditions, drought conditions and other stress signs.
 - Post-Construction Phase
 - Inspect existing trees around the perimeter of disturbed limits for evidence of soil compaction, root injury, limb injury, or other stress signs and correct with proper management techniques such as root or limb pruning, soil aeration, fertilization, crown reduction or watering. Inspection and evaluation shall be performed by a licensed arborist.
 - Inspect for dead or dying trees or limbs which may pose safety hazard and remove.
 - No burial of discarded materials will occur onsite within the conservation areas.
 - No burning within 100 feet of wooded area.
 - All temporary forest protection structures will be removed after construction. Temporary signage shall be replaced with permanent signage on posts in locations shown.
 - Following completion of construction, prior to use, the County inspector shall inspect the entire area.

Reforestation Area Monitoring Notes

- Monthly visits during the first growing season are to assess the success of the plantings and to determine if supplemental watering, pest control or other actions are necessary. Early spring visits will document winter kill and autumn visits will document summer kill.
- The minimum survival rate shall be 75% of the total number of trees planted per acre at the end of the two year maintenance period. Wild tree seedlings from natural regeneration on the planting site may be counted up to 50% toward the total survival number if they are healthy native species at least 12 inches tall. Certification at the end of the two-year post construction period must indicate that the survival rates will result in a 100 tree per acre ratio for a forest and the 3 to 4 foot height standard for whips by the end of the two growing season post construction period, with at least 50% of those trees having the potential of attaining a 2" caliper DBH within 7 years.
- Survival will be determined by a stratified random sample of the plantings. The species composition of the sample population should be proportionate to the amount of each species in the entire planting to be sampled.
- Effective monitoring will assess plant survivability during the first growing season and make recommendations for reinforcement planting if required at that time.

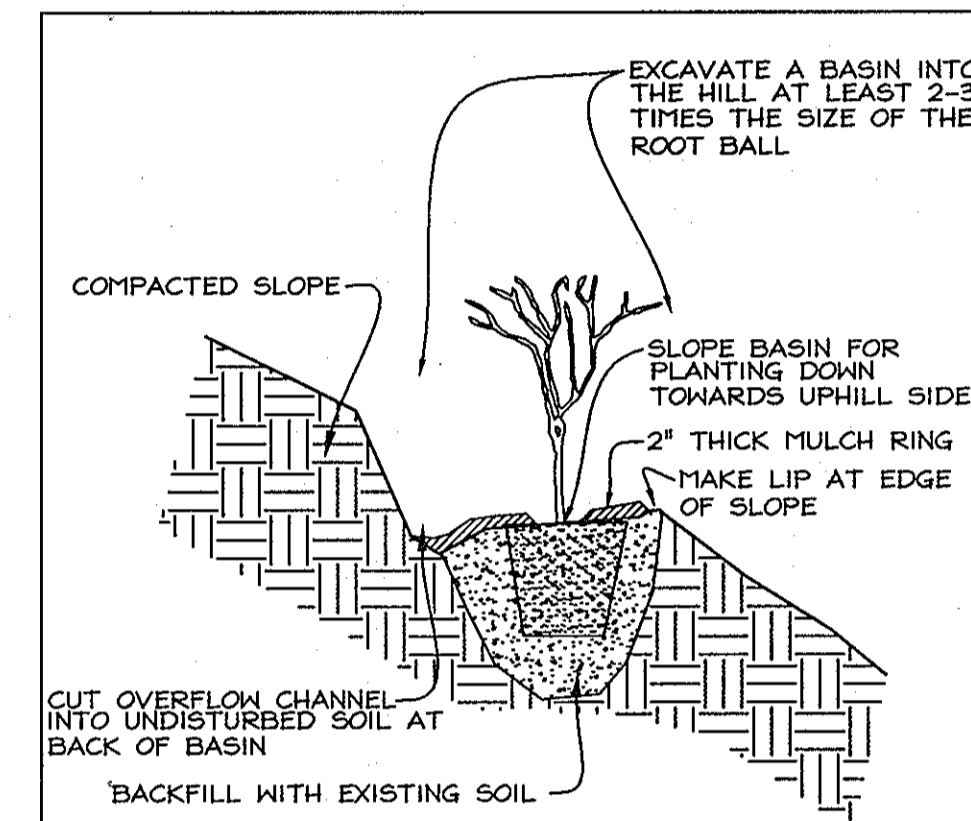
Reforestation Area Planting Notes

- Initial planting inspection and certification required. Planting contractor to notify ERI qualified professional 24 hours in advance of planting.
- Reforestation areas may be planted as soon as reasonable to do so. Late winter- early spring plantings are preferred. Earliest planting dates will vary from year to year but planting may generally begin as soon as the ground is no longer frozen. Alternate planting dates may be considered as conditions warrant.
- Soil amendments and fertilization recommendations will be made based upon the results of soil analysis for nitrogen, phosphorus, potassium, organic matter content and pH. If required, fertilizer will be provided using a slow release, soluble 16-8-16 analysis designed to last 5-8 years contained in polyethylene perforated bags such as manufactured by ADCO Works, P.O. Box 310 Hollis, N.Y. 11423 or approved equal.
- Plant materials shall be planted in accordance with the planting diagram, planting details and planting schedule.
- Plant stock must be protected from desiccation at all times prior to planting. Materials held for planting shall be moistened and placed in cool shaded areas until ready for placement.
- Planting materials shall be nursery grown and inspected prior to planting. Plants not conforming to the American Standards for Nursery Stock specifications for size, form, vigor, or roots, or due to trunk wounds, breakage, desiccation, insect or disease must be replaced.
- Newly planted trees may require watering at least once per week during the first growing season depending on rainfall in order to get established. The initial watering operation should allow for watering during installation to completely soak backfill materials.
- Mulch shall be applied in accordance with the diagram provided and shall consist of composted, shredded hardwood bark mulch, free of wood alcohol.
- Planting holes should be excavated to a minimum diameter of 2.5 to 3 times the diameter of the root ball or container. Mechanical angling is preferred with scarification of the sides of each hole.
- All nursery stock to be sprayed with deer repellent containing Bitrex such as Repellex All nursery stock to be grown with deer repellent tablets in growing medium, such as Repellex Tablets.

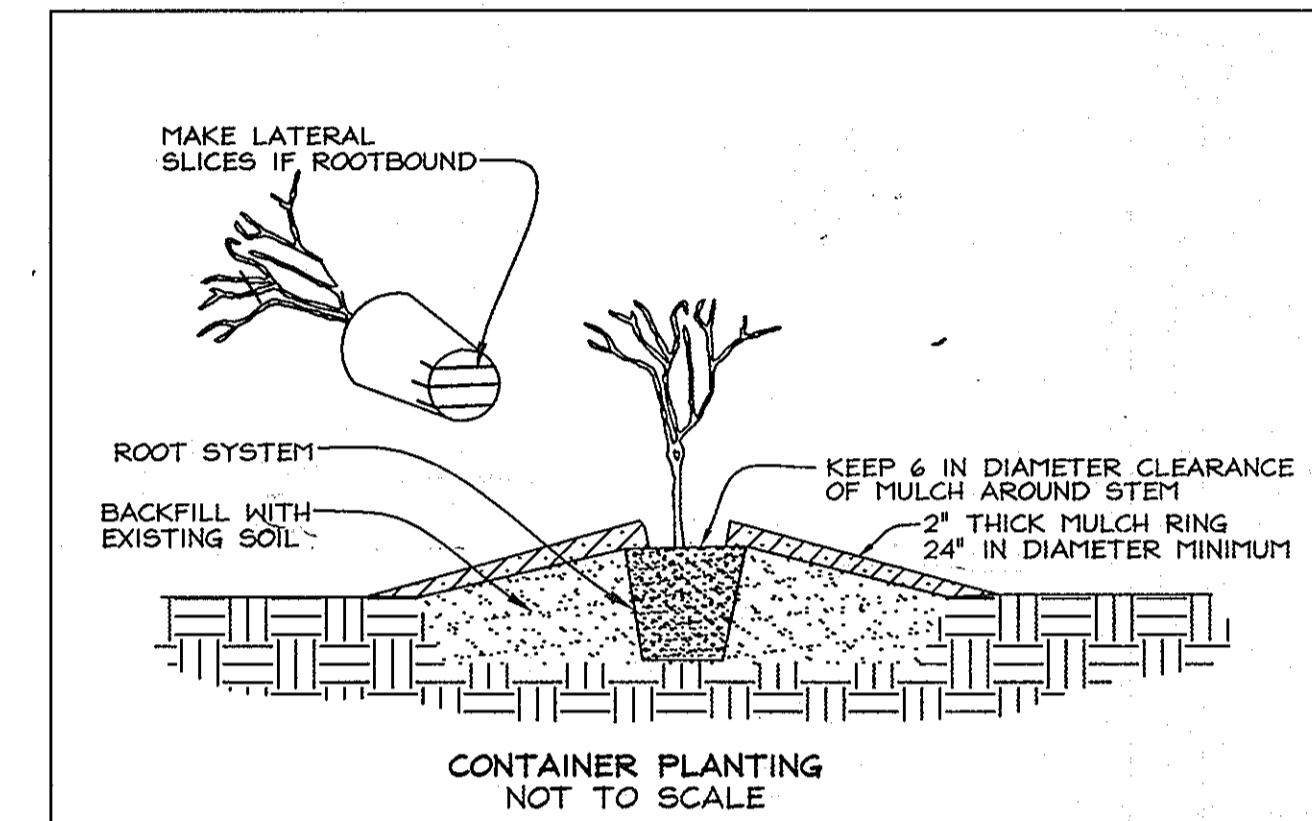


SIGN DETAIL: PERMANENT SIGN

SIGNAGE NOTE: ALL TREE PROTECTION SIGNS SHALL BE PLACED ON METAL 1" POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED.

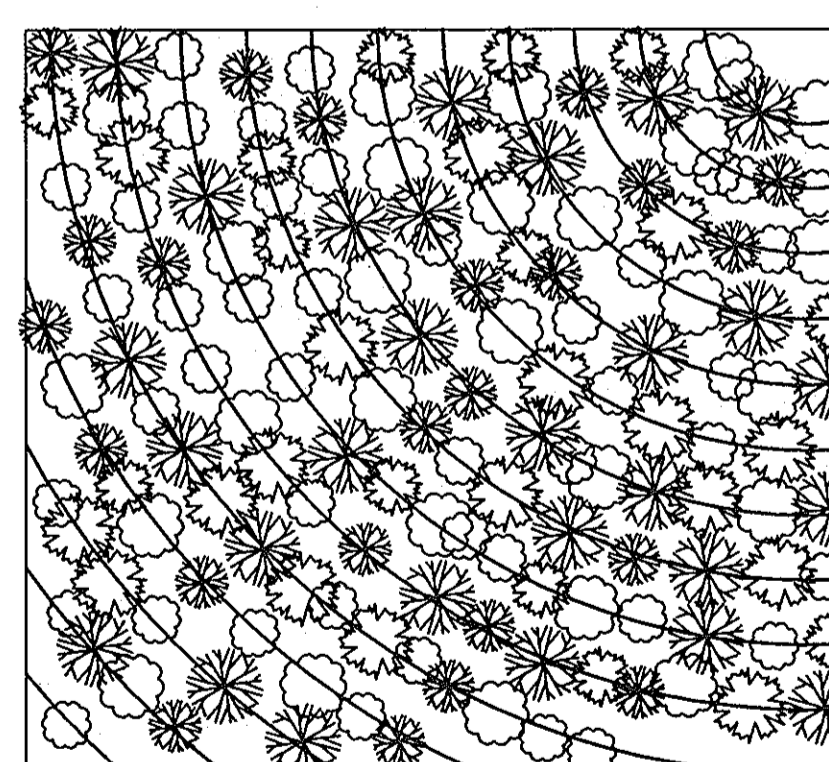


- PLANTING ON STEEP SLOPES NOT TO SCALE**
- PLANT AS PER CONTAINER PLANTING DETAIL EXCEPT PREP OF PLANTING AREA
 - A BASIN FOR PLANTING IS CUT INTO THE SLOPE WITH PLANT BEING PLACED NEAR THE DOWNHILL EDGE OF THE BASIN.
 - BASIN SHOULD SLOPE TOWARD UPHILL SIDE TO ALLOW RAIN TO BE CAPTURED AND INFILTRATE.
 - AN OVERFLOW CHANNEL SHALL BE CUT INTO UNDISTURBED SOIL AT THE REAR OF THE BASIN TO ALLOW EXCESS RUNOFF AND SEDIMENT TO ESCAPE WITHOUT DAMAGING THE BASIN.
 - MULCH AROUND PLANT IN BASIN.



- CONTAINER PLANTING NOT TO SCALE**
- PLANTING PROCEDURE FOR CONTAINER GROWN PLANTS
- REMOVE THE PLANT EITHER BY CUTTING OR INVERTING THE CONTAINER
 - USE A KNIFE TO CUT THROUGH BOTTOM HALF OF THE ROOT BALL.
 - PLANT SHRUBS ON FORMED UP MOUNDS 4" ABOVE THE EXISTING GRADE WHEN HIGH WATER TABLE CONDITIONS EXIST, OTHERWISE PLANT FLUSH WITH EXISTING GRADE.
 - PLANTING HOLE TO BE 2-3 TIMES THE DIAMETER OF THE CONTAINER.
 - INSERT FERTILIZER TABLET, BACKFILL 2/3 OF THE ROOT BALL AND WATER.
 - AFTER WATER PERCOLATES, BACKFILL HOLE TO TOP OF ROOT BALL AND GENTLY TAMP SOIL TO FIRM CONTACT WITH PLANT.
 - APPLY MULCH RING AROUND PLANT KEEPING A 6 IN CLEARANCE FROM STEM.

CURVILINEAR RANDOMIZED PLANTING



- PLANT PLACEMENT DETAIL NOT TO SCALE**
- MIX TREE AND SHRUB SPECIES IN THE STAGING AREA.
 - SET THE GUIDE CURVILINEAR LINE AS CLOSE TO CONTOUR AS POSSIBLE.

TENTATIVELY APPROVED
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY

Frank L. Wayne 2/4/06
PLANNING DIRECTOR JA DATE

EXPLORATION RESEARCH, INC.
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS
6339 HOWARD LAKE
BLOOMSBURG, MARYLAND 21076
TEL: (410) 587-5200 FAX: (410) 798-1562

OWNER
Milford M. & Mary V. Davis
c/o Susan Rhine
12885 Old Frederick Road
Sykesville, MD. 21784-5644

DEVELOPER
Hailey Development L.C.
3905 National Drive
Suite #105
Burtonsville, MD. 20866

PRELIMINARY FOREST CONSERVATION NOTES AND DETAILS
DAVIS PROPERTY
LOTS 1 THRU 11 AND PRESERVATION PARCELS 'A', 'B' AND 'C'
TAX MAP 15 GRID 22 PARCEL 36
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FSH Associates
Engineers Planners Surveyors
6339 Howard Lake, Ellicott City, MD 21115
Tel: 410-587-5200 Fax: 410-798-1562
E-mail: info@fshri.com

DESIGN BY: PS
DRAWN BY: SHM
CHECKED BY: ZYF
SCALE: AS SHOWN
DATE: Nov. 1, 2006
M.C. No.: 3303
SHEET No.: 8 OF 8